

CURRICULUM VITAE

Profesor Maria A. Gavrilescu



CANDIDATURA: REPREZENTANT AL FACULTĂȚII DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI "Cristofor Simionescu" ÎN SENATUL UNIVERSITĂȚII TEHNICE "GHEORGHE ASACHI" DIN IAȘI

●DATE PERSONALE:

Data și locul nașterii: 17 septembrie 1956, Liteni, jud. Suceava

●STUDII ȘI TITLURI ACADEMICE:

- absolvent al Facultății de Tehnologie Chimică-Institutului Politehnic Iași (1976-1981),
- **doctor inginer** din 1997

●DOMENII DE COMPETENȚĂ ȘTIINȚIFICĂ:

- **ingineria proceselor chimice și biologice, cu aplicații în protecția mediului** (în particular, ingineria proceselor de remediere, tratare, epurare și control a componentelor de mediu - aer, apă, sol, afectate de fenomenul poluării; integrare, modelare și simulare)
- **biotehnologie, cu aplicații în protecția mediului** (biosorbție, bioacumulare, bioremediere etc.)
- **evaluarea și managementul riscului ecologic, ingineria securității tehnice, integrarea evaluărilor de risc ecologic, sănătate și securitate;**
- **tratarea și managementul deșeurilor solide, prevenirea și controlul integrat al poluării pentru procese, produse, servicii, producție industrială durabilă, eco-inovare, eco-proiectare, eco-tehnologii și producție curată, economie circulară, evaluări și audit de mediu,**
- **elaborarea și evaluarea materialelor științifice**

●**ALTE COMPETENȚE:** management universitar, expert în proiecte de studii doctorale și postdoctorale din fonduri structurale, expert în proiecte de dezvoltare instituțională

●**CONDUCĂTOR DE DOCTORAT** din 2002, în domeniul fundamental **Științe ingineresti-Inginerie chimică** și din 2009 în domeniul **Ingineria mediului**

●**TITULAR LA DISCIPLINE** specifice domeniilor de competență, la studiile de **licență, masterat, doctorat**

●ACTIVITATEA IN COMUNITATEA ACADEMICĂ

- membru al Senatului Universității Tehnice *Gheorghe Asachi* din Iași (TUIASI)(din 2008)
- membru al Comisiei de calitate a Senatului Universității Tehnice *Gheorghe Asachi* din Iași, 2006-2007; membru al Comisiei de etică a Senatului TUIASI
- membru al conducerii Școlii Doctorale Inginerie Chimică, Facultatea de Inginerie Chimică și Protecția Mediului, 2005 – 2008, director al Școlii doctorale a Facultății și, respectiv al Consiliului de coordonare a programelor doctorale (din 2016), membru al Consiliului pentru Studiile Universitare de Doctorat (CSUD)
- secretar științific al Consiliului Facultății (2000-2004) și membru al Consiliului Facultății de Inginerie Chimică și Protecția Mediului (2000-2020)
- membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului (2000-2009)
- membru în comisii de admitere, doctorat, finalizare studii (licență, master, doctorat) etc.

●APARTENENȚA LA SOCIETĂȚI ȘTIINȚIFICE ȘI PROFESIONALE:

Academia Oamenilor de Știință din România – membru titular, Societatea Națională de Știința și Ingineria Mediului – membru fondator și vicepreședinte (2016); European Federation of Biotechnology – ca expert, secțiunea Environmental Biotechnology; Societatea Română de Bioinginerie și Biotehnologie – membru fondator (1991); Societatea Română de Inginerie Chimică, președinte al filialei Iași (1996, respectiv 2004); Organizația Academică de Ingineria Mediului și Dezvoltare Durabilă (1999); Asociația Absolvenților Facultății de Chimie Industrială; INTERMEDIUNET Romania (INRO) (2005); Federatia Europeana a Societăților de Microbiologie, FEMS (2012); Societatea Română de Chimie (2009) etc.

●**EXPERT EVALUATOR:** CNCIS; ANSTI; CALIST; PNII; PNII; ARACIS; CNATDCU; Comisia Europeană (FP6, FP7, Orizont 2020); European Science Foundation; Federal Ministry of Education and Research, Germania; National Science Centre, Polonia; Netherlands Organisation for Scientific Research; Latvian Council of Science. **CNATDCU – Comisia Inginerie Chimică** (2006-2011), Comisia **Științele Pământului** (2011-2012) - membru, **Comisia Ingineria Mediului (președinte, din 2012), Membru al Consiliului General al CNATDCU (din 2012)**

●**COLABORĂRI EXTERNE, VISITING PROFESOR:** Universitatea Bologna; Universitatea Federico II, Napoli; Universitatea Pannonia, Ungaria; Universitatea Tehnică Viena; Universitatea Rennes, Franța; Universitatea Maribor, Slovenia; Technion, Israel; Universitatea BOKU Viena, Universitatea Twente, Olanda; Universitatea Padova; Italia; Universitatea Varese, Italia; Universitatea Tehnică Copenhaga; Universitatea Minho, Portugalia; Universitatea Tehnică Creta, Grecia; Universitatea Lund, Suedia; Universitatea Queens, Belfast; Universitatea Henry Poincare-Nancy, Franța; Universitatea Vigo, Spania; Universitatea Almeria, Spania etc.

●**MEMBRU AL COLECTIVULUI DE REDACTIE AL REVISTELOR:** *Bioprocess Engineering, Buletinul Institutului Politehnic Iași, Secțiunea Chimie și Inginerie Chimică, European Journal of Science and Theology, The Open Biotechnology Journal, Blue Biotechnology, Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, Journal of Engineering Studies and Research, Journal of Environmental Engineering and Landscape Management, Journal of Applied Sciences in Environmental Sanitation (J.ASES), referent științific pentru jurnale ISI, membru în comitetul științific al peste 60 conferințe naționale și internaționale*

●**EDITOR COORDONATOR al ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, inclus în baze de date internaționale:** *CABI; Chemical Abstracts Service/SciFinder (ACS) (din 2002); EBSCO Database (din 2002); EVISA; ICAAP; Index Copernicus Master Journal List; MedSci; ProQuest (din 2002); CNCIS-categoria A; Web of Science® (WOS) (H=31); Science Citation Index Expanded™; SCIMAGO, SCOPUS (din 2002), Journal Citation Reports® (IF=0,885/2009;... IF=1,185/2018);* ●**EDITOR COORDONATOR al PROCEDIA – ENVIRONMENTAL SCIENCE, ENGINEERING AND MANAGEMENT, inclus în Scopus;** ●**EDITOR al ANNALS OF THE ACADEMY OF ROMANIAN SCIENTISTS, Series on Physics and Chemistry;** ●**EDITOR ASOCIAT al PEER J (inclus in WOS),** ●**EDITOR al jurnalului WATER (secțiunea Water and Wastewater Treatment) (inclus in WOS)**

●**PREMIIL:** *Premiul "Nicolae Teclu" al Academiei Române, secțiua Chimie, 1995; Best Paper Award – acordat de Editura Springer, Germania; Best Poster Award – Global Conference on Global Warming GCGW-12, Istanbul; Diplome la Saloane de Invenții; Diploma de Excelență în Cercetare a Senatului Universității Tehnice „Gheorghe Asachi”, 2007; 2014, prezentări biografice și nominalizări în lucrări de tip Who's Who*

●PORTOFOLIUL ȘTIINȚIFIC:

- **Lucrări științifice - 763 titluri: 22 cărți; 22 capitole** în volume de editor (Wiley, SignPost, Springer, Elsevier), **9 manuale** (tipărite și în format electronic), **315 lucrări** publicate (**164 in jurnale ISI și 16 în ISI Proceedings**); **53 conferințe și keynote lectures; 282 comunicări** la manifestări științifice naționale și internaționale, **47 rapoarte** de cercetare; **12 brevete de invenție** (9 incluse în WEB of Science DERWENT Innovation Index)+ 1 cerere de brevet la OSIM
- **Citări ale articolelor publicate** (Web of Science): **peste 4100 (din care peste 3500 fără autocitări), indice Hirsch, H=30 (WOS); H=31 (Scopus); H=39 (Google)**
- **Granturi și contracte de cercetare:** **8 tehnologii originale; 20 contracte de cercetare** cu agenți economici industriali; **29 granturi naționale (CNCIS, PNI, PNII); 6 granturi internaționale, 21 acorduri Erasmus și Erasmus+.**

Menționez că am norma didactică completă la Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.

Ianuarie 2020

Profesor MARIA GAVRILESCU

**Europass
Curriculum Vitae**
**INFORMAȚII
PERSONALE**

Numele și prenumele
Adresa
Telefon
Fax
E-mail
Nationalitate

Maria GAVRILESCU

Universitatea Tehnică "Gheorghe Asachi" din Iași,
Bd. Prof. D. Mangeron nr. 73, 700050, IAȘI, România
+40-232-278680 int. 2137
+40-232-271311
mgav@tuiasi.ro, mgav_ro@yahoo.com
Română


POZITIA

Profesor universitar, Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Inginerie Chimică și Protecția Mediului „Cristofor Simionescu”, Departamentul Ingineria și Managementul Mediului

**EXPERIENȚA
PROFESIONALĂ**

Perioada
Funcția sau postul ocupat
Principalele activități și
responsabilități

1 octombrie 2000 - prezent

Profesor universitar

- activitate didactică la ciclurile de licență, masterat, doctorat, cursuri postuniversitare (cursuri, lucrări practice, seminarii și proiecte);
- cercetare științifică în domenii precum: *ingineria proceselor chimice și biologice, ingineria mediului, biotehnologii în protecția mediului, riscuri ecologice și pentru sănătatea umană, reducerea poluării la sursă și minimizarea pierderilor (valorificarea și managementul deșeurilor, producție industrială durabilă, ecoproiectare, prevenirea și controlul integrat al poluării)*
- director al unor granturi de cercetare la nivel național
- membru în echipele de cercetare a unor granturi la nivel național și internațional
- gestiunea și finalizarea unor proiecte de cercetare
- coordonarea activității de doctorat în domeniul Inginerie chimică (din 2002, în lichidare) și Ingineria mediului (din 2009)
- *Managing Editor/Editor-in-Chief* al revistei științifice *Environmental Engineering and Management Journal*, inclusă în baze de date internaționale de la apariție, cotate ISI din anul 2007;
- *Editor-in-chief* al revistei *Procedia-Environmental Science, Engineering and Management*, inclusă în baze de date internaționale
- Editor al *Analelor Academiei Oamenilor de Știință din Romania, Seria Științe Chimice*
- expert evaluator pentru programe naționale de cercetare lansate sub egida Ministerului Educației și Cercetării (CNCSIS, PN-I, PN-II, Calist etc.);
- expert evaluator al Comisiei Europene pentru proiecte de cercetare în programele FP7, Orizont 2020;
- membru al grupului de experți ai *European Federation of Biotechnology*, secțiunea *Environmental Biotechnology*
- referent științific a numeroase reviste de specialitate naționale și internaționale;
- organizarea și coordonarea de sesiuni științifice studentești
- coordonarea activității unor cercuri științifice studentești
- organizator al unor manifestări științifice naționale și internaționale și membru în comitetele științifice
- coordonator științific pentru proiecte de diplomă și lucrări de disertație
- membru al conducerii Școlii doctorale a Facultății de Inginerie Chimică și Protecția Mediului
- membru in biroul de conducere al Catedrei Ingineria și Managementul Mediului

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| Numele și adresa angajatorului | <ul style="list-style-type: none"> - director al departamentului de cercetare științifică/coordonator al Centrului de Cercetare <i>Ingineria mediului și evaluarea impactului</i>, al Universitatii Tehnice „Gheorghe Asachi” din Iași, acreditat CNCSIS - membru al Consiliului Facultății și al Senatului Universității; - prodecan responsabil cu cercetarea științifică (secretar științific) al Consiliului Facultății - membru al Comisiei de calitate a Senatului Universității Tehnice „Gheorghe Asachi” din Iași - membru al Comisiei de etică a Senatului Universității Tehnice „Gheorghe Asachi” din Iași - membru al Comisiei pentru relații internaționale, imagine universitară și titluri onorifice a Senatului Universității Tehnice „Gheorghe Asachi” din Iași - referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat - membru/președinte al comisiei de susținere a examenului de licență/diplomă - membru în comisia de susținere a lucrărilor de disertație - membru în comisia de admitere a facultății - membru în comisii de acordare a titlului de Doctor Honoris Causa al Universității Tehnice “Gheorghe Asachi” din Iași - elaborarea de materiale de interes academic (pentru acreditarea, de către ARACIS a unor specializări de licență și master, pentru acreditarea de către CNATDCU a domeniului de doctorat Ingineria mediului la Universitatea Tehnică „Gheorghe Asachi” din Iași, rapoarte de cercetare etc.) Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică și Protecția Mediului, Departamentul de Ingineria și Managementul Mediului), Str. Prof.dr.docent Dimitrie Mangeron nr. 73, 700050, Iași, Romania |
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| Perioada Funcția sau postul ocupat Principalele activități și responsabilități | 1 Octombrie 1998 - 30 Septembrie 2000 Conferențiar universitar <ul style="list-style-type: none"> - activitate didactică la ciclurile de licență și masterat, cursuri postuniversitare (cursuri, lucrări practice, seminarii și proiecte); - cercetare științifică în domenii precum: ingineria proceselor chimice și biologice, ingineria mediului, biotehnologii în protecția mediului, - director al unor granturi de cercetare la nivel național - gestiunea unor proiecte de cercetare - expert evaluator pentru programe naționale de cercetare lansate sub egida Ministerului Educației și Cercetării (CNCSIS, ANSTI); - organizarea și coordonarea de sesiuni științifice studentești - coordonarea activității unor cercuri științifice studentești - organizator al unor manifestări științifice naționale și internaționale și membru în comitetele științifice - coordonator științific pentru proiecte de diplomă și lucrări de disertație (cursuri de zi și învățământ deschis la distanță) - membru in biroul de conducere al Catedrei Ingineria și Managementul Mediului - director al departamentului de cercetare științifică al Centrului de Cercetare <i>Ingineria mediului și evaluarea impactului</i>, al Universității Tehnice „Gheorghe Asachi” din Iași (acreditat CNCSIS) - membru al comisiilor de susținere a examenului de diplomă și a lucrărilor de disertație (cursuri de zi și învățământ deschis la distanță) - membru in comisia de admitere a facultății - referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat - referent științific pentru reviste de specialitate naționale și internaționale; |
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| Numele și adresa angajatorului | Universitatea Tehnică “ <i>Gheorghe Asachi</i> ” din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iasi, Romania |
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| Perioada Funcția sau postul ocupat Principalele activități și responsabilități | 1 martie 1996- 30 septembrie1998 Cercetător științific principal grad II (echivalent conferențiar universitar) <ul style="list-style-type: none"> - responsabil al colectivului de cercetare <i>Ingineria proceselor biotehnologice</i> |

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| Numele și adresa angajatorului | <ul style="list-style-type: none"> - coordonarea și elaborarea de studii și cercetări la scară laborator, pilot, industrială în domeniul biotehnologiei și bioingineriei proceselor de biosinteză a antibioticelor, (bio)separări, (bio)purificări, bioreactoare și echipamente neconvenționale - gestiunea și finalizarea unor proiecte de cercetare - microproducție - elaborarea și susținerea publică a tezei de doctorat: Studiul curgerii sistemelor terogene în reactoare de tipul gaz-lift (iunie, 1997); - studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomicina); - activități de predare ca profesor asociat la Facultatea de Inginerie Chimică din cadrul Universității Tehnice Gheorghe Asachi din Iași, Catedra Ingineria Mediului. Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania |
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| Perioada Funcția sau postul ocupat Principalele activități și responsabilități | <p>1 noiembrie 1990 – 29 februarie 1996</p> <p>Cercetător științific principal grad III (echivalent șef lucrări)</p> <ul style="list-style-type: none"> - responsabil al colectivului <i>Ingineria proceselor biotehnologice</i> - coordonarea și desfășurarea de studii și cercetări fundamentale și aplicative în domeniul fenomenelor de transfer de impuls, caldură și masă în bioreactoare la scară laborator, pilot și industrială; - elaborarea și managementul unor proiecte de cercetare - studii privind performanțele (timp de amestecare, dispersia fazelor, transferal oxigenului, consum specific de putere etc.) în sisteme de contactare convenționale și, respectiv, neconvenționale, mici consumatoare de energie (coloane cu barbotare, contactoare gaz-lift) în sisteme eterogene (gaz-lichid-solid) aplicate la biosinteza unor antibiotice - sisteme de agitare mici consumatoare de energie pentru sisteme eterogene (gaz-lichid-solid) - transpunerea la scară a bioreactoarelor și bioprocесelor - studii privind reologia lichidelor de biosinteză; - studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomicina); - studii și cercetări pentru îmbunătățirea randamentelor de biosinteză și separare/purificare prin selecție la nivel de laborator și dozarea unor ingrediente în lichidele de biosinteză. |
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| Numele și adresa angajatorului | Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania |
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| Perioada Funcția sau postul ocupat Principalele activități și responsabilități | <p>1 iunie 1988 - 31 octombrie 1990</p> <p>Cercetător științific (echivalent asistent universitar)</p> <ul style="list-style-type: none"> - responsabil al colectivului de cercetare, <i>Ingineria proceselor biotehnologice</i> - gestiunea și finalizarea unor proiecte de cercetare - microproducție - cercetare în domeniul fenomenelor de transfer de impuls, masă și căldură în sisteme eterogene, newtoniene, de tipul lichidelor de biosinteză a antibioticelor - studiul sistemelor de agitare convenționale și neconvenționale pentru bioreactoarele aplicate în biosinteza antibioticelor - studiul corelației dintre necesarul de oxigen al microorganismelor aerobe și condițiile de cultivare la scară laborator, pilot și industrială - studii și cercetări în cadrul unor contracte de cercetare privind optimizarea tehnologiilor de fabricare a unor rifamicine de biosinteză și semisinteză (scară laborator, pilot, industrială); - studii și cercetări în cadrul unor contracte de cercetare privind optimizarea tehnologiei de biosinteză a Penicilinei G (la scară pilot și industrială). |
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| Numele și adresa angajatorului | Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania |
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| Perioada Funcția sau postul ocupat | <p>4 august 1983 – 31 mai 1988</p> <p>Inginer chimist</p> |

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| Principalele activități și responsabilități | <ul style="list-style-type: none"> - cercetare în cadrul colectivului "Ingineria proceselor biotehnologice" - metode de determinare a necesarului de oxigen al unor microorganisme aerobe aplicate în biosinteza unor antibiotice în relație cu nivelul oxigenului dizolvat - metode de caracterizare și comparare a performanțelor bioreactoarelor - studii și cercetări în cadrul unor contracte de cercetare privind îmbunătățirea și optimizarea tehnologiilor de fabricare a unor rifamicine de biosinteză și semisinteză (biosinteză, izolare-purificare, contitionare, studii de stabilitate chimică), la scară laborator, pilot, industrială. |
| Numele și adresa angajatorului | Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania |
| Perioada | 1981-1983 |
| Funcția sau postul ocupat | Inginer chimist |
| Principalele activități și responsabilități | Sef formație de lucru |
| Numele și adresa angajatorului | Combinatul de Fibre Artificiale Brăila și Combinatul de Fibre Sintetice Iași, Romania |
| EDUCAȚIE, FORMARE, PREDARE, SCHIMBURI DE EXPERIENȚĂ | |
| Perioada | 2009 - Training internațional privind unele concepte în știința și ingineria mediului, Iasi, România, 1-4 Iunie 2009 |
| Activități desfășurate, titlu/calificare obținută | Formare în ingineria și managementul de mediu, estimarea și managementul riscurilor de mediu și pentru sănătatea umană/Certificat de absolvire |
| Numele și tipul organizației | Michigan State University, Institute of International Health and Fogarty International Center Program on Environmental Health, Training and Research in Environmental Health in the Balkans (TREHB) |
| Perioada | 2005 - <i>E-learning: formation des formateurs</i> |
| Activități desfășurate, titlu/calificare obținută | Training în procesul de învățare pe platforma de activități de e-learning (programare în C++, utilizare <i>Dreamweaver, Microsoft Frontpage</i>) |
| Numele și tipul organizației | <i>Universitatea Henry Poincare Nancy, Asociația Universităților Francofone și Universitatea Tehnică Gheorghe Asachi</i> din Iași |
| Perioada | 2005 - <i>Eco-certificare în turism</i> |
| Activități desfășurate, titlu/calificare obținută | Curs postuniversitar privind certificarea în ecoturism/ Certificat de participare |
| Numele și tipul organizației | Departamentul de Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Centrul pentru Cercetare în Turism <i>Bucovina</i> , Câmpulung Moldovenesc și International Institute of Industrial Environment Economics, Lund, Suedia |
| Perioada | 2004 – <i>Gestionarea fondurilor europene</i> |
| Activități desfășurate, titlu/calificare obținută | Curs intensiv / Certificat de participare |
| Numele și tipul organizației | Școala de Proiecte APART, București și Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași |
| Perioada | 2004 – <i>Turism durabil. Certificare și ecoetichetare</i> |
| Activități desfășurate, titlu/calificare obținută | Curs postuniversitar / Certificat de participare |
| Numele și tipul organizației | Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden |
| Perioada | 2004 – <i>Ecoproiectare și Inovare de Produs</i> |

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| Activități desfășurate, titlu/calificare obținută | Curs postuniversitar / Certificat de participare |
| Numele și tipul organizației | Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden |
| Perioada | 2004 – Managementul deșeurilor |
| Activități desfășurate, titlu/calificare obținută | Curs postuniversitar / Certificat de participare |
| Numele și tipul organizației | Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden |
| Perioada | 2004 – Auditor pentru sisteme de management al mediului, ISO 14001-1996 |
| Activități desfășurate, titlu/calificare obținută | Curs intensiv/Certificat de Auditor intern pentru sisteme de management de mediu conform ISO 14001:1996, Nr. 0034, 2004. |
| Numele și tipul organizației | Camera de Comerț Iași, Romania și SGS Belgia-Romania |
| Perioada | 2003 - How to Apply with Success in the Sixth Framework Programme (FP6) |
| Activități desfășurate, titlu/calificare obținută | Curs intensiv (în limba engleză)/ Certificat de participare |
| Numele și tipul organizației | Ministerul Educației - UEFISCSU, Romania și Hyperion Ltd. Irlanda |
| Perioada | 2003 – Schimb de experiență privind curricula universitară |
| Activități desfășurate, titlu/calificare obținută | Vizită de documentare și schimb de experiență |
| Numele și tipul organizației | International Institute of Industrial Environment Economics, Lund, Sweden |
| Perioada | iunie-iulie 2000 |
| Activități desfășurate, titlu/calificare obținută | Concurs public pentru ocuparea postului de profesor universitar |
| Numele și tipul organizației | Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică și Protecția Mediului, Departamentul de Ingineria și Managementul Mediului), Str. Prof.dr.docent Dimitrie Mangeron nr. 73, 700050, Iași, Romania |
| Perioada | mai - iunie 1998 |
| Activități desfășurate, titlu/calificare obținută | Concurs public pentru ocupare postului de conferențiar universitar |
| Numele și tipul organizației | Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iasi, Romania |
| Perioada | 1989 – 1997 - Doctorand |
| Activități desfășurate, titlu/calificare obținută | Elaborarea și susținerea tezei de doctorat în domeniul Inginerie chimicăcu tema Studiul curgerii sistemelor eterogene în reactoare de tipul gaz-lift, sub conducerea științifică a Prof. dr. doc. ing. Radu Z. Tudose, Membru correspondent al Academiei Române (susținută public în iunie, 1997), Titlul de doctor acordat prin Ordin al Ministrului Educației, diploma de doctor inginer, Seria P, Nr. 0006233 din 10/12/1997 (972) |
| Numele și tipul organizației | Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași |
| Perioada | Februarie1996 |
| Activități desfășurate, titlu/calificare obținută | Concurs/atestat pe post de cercetător științific principal grad II |
| Numele și tipul organizației | Institutul de Cercetări Chimico-Farmaceutice, București, Romania |

| | |
|---|--|
| Perioada | Octombrie 1990 |
| Activități desfășurate, titlu/calificare obținută | Concurs/atestat pe post de cercetător științific principal grad III |
| Numele și tipul organizației | Institutul de Cercetări Chimico-Farmaceutice, București, Romania |
| Perioada | Iunie 1988 |
| Activități desfășurate, titlu/calificare obținută | Concurs/atestat pe post de cercetător științific |
| Numele și tipul organizației | Institutul de Cercetări Chimico-Farmaceutice, București, Romania |
| Perioada | 1987-1988 , Curs de specializare postuniversitară în programarea minicalcutoarelor (FELIX-Mini) |
| Activități desfășurate, titlu/calificare obținută | Programare in limbajul Cobol, Gestiunea bazelor de date/ Certificat de absolvire - Programarea minicalcutoarelor, Seria A, Nr. 02270, din 01/08/1988 (5) |
| Numele și tipul organizației | Centrul Teritorial de Calcul Electronic Iași, Romania |
| Perioada | 1986 – 1987 , Curs postuniversitar intensiv de limba engleză |
| Activități desfășurate, titlu/calificare obținută | Limba și literatura engleză/ Diploma de absolvire, Seria B, Nr. 1206, din 20/04/1988 (206) |
| Numele și tipul organizației | Universitatea “Al.I. Cuza” din Iasi, Facultatea de Filologie, Romania |
| Perioada | 1986 - 1987 – Curs intensive de <i>Analiza valorii</i> |
| Activități desfășurate, titlu/calificare obținută | Certificat de participare |
| Numele și tipul organizației | Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Chimie Industrială, Iași, Romania. |
| Perioada | 1986 - 1987 - Curs intensive de <i>Optimizare a proceselor chimice</i> |
| Activități desfășurate, titlu/calificare obținută | Certificat de participare |
| Numele și tipul organizației | Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Chimie Industrială, Iași, Romania. |
| Perioada | 1977 - 1981 |
| Activități desfășurate, titlu/calificare obținută | Cursuri de lungă durată și diploma de Inginer chimist , specialitatea <i>Tehnologie chimică organică</i> |
| Numele și tipul organizației | Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Tehnologie Chimică, Iași, Romania |

**APTITUDINI,
COMPETENȚE
PERSONALE**

Limba maternă

Alte limbi

Româna

Autoevaluare

European level (*)
Engleza
Franceza

| Înțelegere | | | | Vorbire | | | | Scriere | |
|------------|-------------------------|--------|-------------------------|----------------------------|-------------------------|--------------|-------------------------|------------------|-------------------------|
| Ascultare | | Citire | | Participare la conversație | | Discurs oral | | Exprimare scrisă | |
| C2 | Utilizator experimentat | C2 | Utilizator experimentat | C2 | Utilizator experimentat | C2 | Utilizator experimentat | C2 | Utilizator experimentat |
| B2 | Utilizator independent | B2 | Utilizator independent | B2 | Utilizator independent | B1 | Utilizator independent | B2 | Utilizator independent |

Germana

| | | | | | | | | | |
|----|-------------------------|----|-------------------------|----|-------------------------|----|-------------------------|----|-------------------------|
| A2 | Utilizator elementar | A2 | Utilizator elementar | A2 | Utilizator elementar | A1 | Utilizator elementar | A2 | Utilizator elementar |
|----|-------------------------|----|-------------------------|----|-------------------------|----|-------------------------|----|-------------------------|

(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

**COMPETENȚE ȘI
ABILITĂȚI SOCIALE**

Experiență în munca în echipă, în colaborarea cu alte organizații, în relații interculturale, mediator în situații conflictuale, implicare în acțiuni ale tinerilor studenți, activități de predare și instruire

**COMPETENȚE ȘI
APTITUDINI ȘTIINȚIFICE,
TEHNICE/DE
CERCETARE ȘI
ORGANIZATORICE**

Experiență în predare, instruire teoretică și practică, managementul proiectelor/contractelor și al echipei, în motivarea colaboratorilor, diplomație în relațiile interpersonale:

Contextul în care au fost dobândite aceste abilități:

- **ACTIVITĂȚI DE PREDARE, INSTRUIRE ȘI FORMARE** (licență, masterat, doctorat, cursuri postuniversitare):

Studii de licență:

Cursuri și aplicații (seminare, laboratoare, proiecte):

Bazele sistemelor tehnologice, specializările *Tehnologia și biotehnologia protecției mediului/Ingineria și protecția mediului în industrie* (domeniul de studii: *Ingineria Mediului*) și *Inginerie biochimică* (domeniul de studii: *Inginerie Chimică*)

Analiza și sinteza proceselor tehnologice, specializarea *Tehnologia și biotehnologia protecției mediului/Ingineria și protecția mediului în industrie* (domeniul de studii: *Ingineria Mediului*)

Surse, procese și produse poluante, specializarea *Tehnologia și biotehnologia protecției mediului/Ingineria și protecția mediului în industrie* (domeniul de studii: *Ingineria Mediului*)

Ingineria proceselor și utilaje specifice în ingineria mediului, specializarea *Tehnologia și biotehnologia protecției mediului/Ingineria și protecția mediului în industrie* (domeniul de studii: *Ingineria Mediului*)

Ingineria proceselor chimice și biologice, specializarea *Tehnologia și biotehnologia protecției mediului/Ingineria și protecția mediului în industrie* (domeniul de studii: *Ingineria Mediului*)

Prevenirea și controlul integrat al poluării, la anul V, domeniul *Ingineria Mediului*, specialitatea *Tehnologia și biotehnologia protecției mediului* (actual *Ingineria și protecția mediului în industrie*)

Studii de masterat:

Cursuri și aplicații (seminarii, proiecte):

- **Modelarea și simularea proceselor pentru protecția mediului**, specializarea *Managementul mediului*, cursuri zi și învățământ deschis la distanță, în limba română (domeniul *Ingineria Mediului*)

- **Estimarea și managementul riscului**, specializarea *Managementul mediului*, cursuri zi și învățământ deschis la distanță, în limba română (domeniul *Ingineria Mediului*)

- **Reducerea poluării la sursă și minimizarea deșeurilor**, specializarea *Managementul mediului*, cursuri zi și învățământ deschis la distanță, în limba română (domeniul *Ingineria Mediului*)

- **Legislație privind protecția mediului**, specializarea *Managementul proiectelor*, cursuri zi în limba română, în cadrul *Departamentului Programe* al Universității Tehnice Gheorghe Asachi din Iași

- **Producție industrială durabilă**, specializarea *Managementul mediului*, cursuri zi și învățământ deschis la distanță, în limba română (domeniul *Ingineria Mediului*)

- **Sustainable Industrial Production**, specializarea *Environmental Management and Sustainable Energy*, cursuri zi, în limba engleză (domeniul *Ingineria Mediului*)

Studii de doctorat:

Cursuri și aplicații (seminarii, proiecte):

- **Elaborarea, evaluarea și susținerea lucrărilor științifice**, în cadrul Scolii Doctorale a Facultății de Inginerie Chimică și Protecția mediului - Universitatea Tehnică *Gheorghe Asachi* din Iași, Facultatea de Inginerie Chimică și Protecția Mediului și a altor facultăți din cadrul universității
- **Elaborarea materialelor științifice și deontologia cercetării**, pentru doctoranzii Facultății de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu" (din anul universitar 2017-2018)
- **Etica și integritatea academică**, pentru doctoranzii Școlii Doctorale a Universității Tehnice "Gheorghe Asachi" din Iași (din anul universitar 2018-2019)

Studii postuniversitare:

- **Proiectarea și implementarea sistemelor de sănătate și securitate în muncă**
 - **Accidente majore și dezastre ecologice**
Curs postuniversitar la compania *Aerostar*, Bacău
 - **Accidente și dezastre ecologice majore**, Programul postuniversitar de formare și dezvoltare profesională continuă: *Managementul și protecția mediului în contextul dezvoltării durabile* (2013-2014), Universitatea Tehnică "Gheorghe Asachi" din Iași, Departamentul Ingineria și Managementul Mediului
 - **Influența protecției mediului asupra sănătății populației**
 - *Sănătatea și securitatea în muncă*
 - *Evaluarea și managementul riscului*
 - *Managementul sănătății și securității în muncă*
- Curs postuniversitar, *Proiectarea și implementarea sistemului de management al sănătății și securității ocupaționale*
- **ORGANIZAREA DE EVENIMENTE ȘI MANIFESTĂRI ȘTIINȚIFICE LA NIVEL LOCAL, NAȚIONAL ȘI INTERNAȚIONAL, MEMBRU ÎN COMITETE DE ORGANIZARE ȘI ȘTIINȚIFICE:**

Peste 60 de acțiuni descrise în Lista activităților științifice, atașată)

- **ACTIVITĂȚI ÎN COMUNITATEA ACADEMICĂ**
 - organizarea și coordonarea de sesiuni științifice studențești
 - coordonarea activității unor cercuri științifice studențești
 - director, membru al conducerii Școlii doctorale a Facultății de Inginerie Chimică și Protecția Mediului a Universității Tehnice "Gheorghe Asachi" din Iași
 - director al Consiliului de coordonare a programelor doctorale din Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
 - membru al Consiliului pentru Studiile Universitare de Doctorat (CSUD)
 - membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului
 - membru al Consiliului Facultății și al Senatului Universității;
 - prodecan responsabil cu cercetarea științifică al Consiliului Facultății
 - membru al Comisiei de calitate a Senatului Universității Tehnice *Gheorghe Asachi*
 - membru al Comisiei de etică a Senatului Universității Tehnice *Gheorghe Asachi* din Iași
 - membru al Comisiei pentru relații internaționale, imagine universitară și titluri onorifice a Senatului Universității Tehnice „Gheorghe Asachi” din Iași
 - secretar al Comisiei pentru cercetare - dezvoltare, antreprenariat și parteneriat public privat al Senatului Universității Tehnice „Gheorghe Asachi” din Iași
 - elaborarea de materiale de interes academic (pentru acreditarea, de către ARACIS a unor specializări de licență și master, pentru acreditarea de către CNATDCU, a școlii doctorale de *Ingineria mediului* la Universitatea Tehnică „Gheorghe Asachi” din Iași, rapoarte de cercetare etc.)
 - membru al Consiliului General al Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU), președinte al Comisiei de specialitate *Ingineria mediului* (**Ordin MEC nr. 5644 din 5.09. 2012; Ordin MECS nr.3019 11.01.2016**)
 - membru al Comisiei de specialitate *Științele pământului*, Panelul 1: *Matematica și științele naturii*, a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3980 din 25 martie 2011**)
 - membru al comisiei de specialitate *Inginerie Chimică, Ingineria Materialelor și Ingineria Produselor Alimentare* a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3904/10.05.2006**)

- **COMPETENȚE ȘTIINȚIFICE ȘI DIRECȚII DE CERCETARE**

Ingineria proceselor chimice și biologice (cu aplicații în protecția mediului și conservarea resurselor)

- fenomene de transfer de proprietate în procesele chimice, biochimice și biologice: curgerea sistemelor polifazice în contactoare cu agitare mecanică și pneumatică; reologia lichidelor biologice; transferul de masă în vase cu amestecare, contactoare pneumatice, utilaje de extracție, filtrare, centrifugare; transferul de căldură în procese de biosinteză și izolare-purificare a produselor de biosinteză;
- migrarea și comportarea poluanților persistenți anorganici și organici (metale grele, poluanți organici persistenți POPs, produse de igienă, coloranți) în soluri și sorbenți naturali
- bazele sistemelor tehnologice-analiza și sinteza;
- intensificarea proceselor de transfer în ingineria chimică, protecția mediului și biotehnologie: sisteme performante de amestecare în contactoare cu agitare mecanică; aplicarea unor promotori statici de amestecare la scară pilot și industrială pentru intensificarea procesului de amestecare;
- procese și operații unitare în procese chimice, biochimice și biologice, cu aplicații în biotehnologie și protecția mediului: filtrare, centrifugare, extracție, distilare-rectificare, evaporare și cristalizare, adsorbție pe schimbatori de ioni, separare prin membrane; bioremediere, biosorbție; absorption
- asimilarea unor sisteme tehnice, (bio)reactoare neconvenționale în procesele chimice și biochimice industriale, eficiente din punct de vedere energetic,
- transpunerea la scară cu aplicații în ingineria mediului
- modelarea și simularea proceselor chimice și biologice, incluzând aplicații în protecția și controlul calității mediului

Biotehnologie/Biotehnologii în protecția mediului

- baza științifică a ingineriei reacțiilor biochimice și biologice; conversia masei în prezența microorganismelor și/sau enzimelor, în funcție de legile care descriu transferul de impuls, masă și căldură și de cinetica reacțiilor; manipularea tulpinilor microbiene în bioreactoare; necesarul de oxigen al microorganismelor aerobe; stabilitatea agenților microbieni față de factorii fizico-mecanici, cu aplicații în protecția mediului; studii de echilibru, cinetic și termodinamică
- epurarea biologică a fluxurilor gazoase și lichide conținând poluanți organici biodegradabili
- bioremedierea componentelor de mediu afectate de fenomenul poluării, (bio)degradarea poluanților refractari
- biosorbția și bioacumularea metalelor grele, a poluanților persistenți de microorganisme inactivate (moarte) și viabile (drojdii, fungi, bacterii), biosorbția folosind deșeuri agricole și vegetale (alge, coji de semințe, alte deșeuri vegetale)
- biodisponibilitatea, bioacumularea, persistența, ecotoxicitatea, fitotoxicitatea în relație cu diverși contaminanți ai mediului

Prevenirea și controlul integrat al poluării: practici pentru procese, produse, servicii (reducerea poluării la sursă și managementul pierderilor, ierarhia managementului deșeurilor, managementul riscurilor, evaluarea ciclului de viață, analiza cost-beneficiu, amprente ecologice, analiza de decizie multicriterială)

Producție industrială durabilă, Eco-inovare, Eco-proiectare, Eco-tehnologii, Producție curată, Managementul deșeurilor solide, Economie circulară

Evaluarea și managementul riscului, Riscuri ecologice, Riscuri pentru sănătatea umană

Evaluări de mediu (atestat de Ministerul Mediului, Apelor și Pădurilor ca elaborator de Rapoarte de securitate, în contextul Directivelor Seveso)

Elaborarea și evaluarea materialelor științifice

Conducător de doctorat din 2002 (până în 2011), în domeniul fundamental Științe Inginerești, domeniul de doctorat *Inginerie chimică*, 7 doctori

Conducător de doctorat din 2009, în domeniul fundamental Științe Inginerești, domeniul de doctorat *Ingineria mediului*, 6 doctori și 7 doctoranzi

- **EXPERIENȚĂ ÎN MANAGEMENTUL PROIECTELOR/CONTRACTELOR DE CERCETARE:**

Director/responsabil de proiect sau membru în echipa de cercetare și realizări:

- **tehnologii originale aplicate în industrie: 8**
- **teme de cercetare cu companii industriale: 20** (10 în calitate de director sau responsabil de temă)
- **granturi naționale (CNCSIS, PNCDI-I, PNCDI-II): 29** (17 ca director de proiect)
- **granturi internaționale: 6** (în colaborare, ca membru al echipei de cercetare)

- **COMPETENȚE ȘI EXPERIENȚĂ ÎN EVALUAREA ȘI EDITAREA MATERIALELOR ȘTIINȚIFICE**

- editor al unor jurnale științifice:

Environmental Engineering and Management Journal (Managing Editor 2002-2014, Editor-in-Chief, 2014-prezent)

Procedia – Environmental Science, Engineering and Management (Editor-in-Chief)

Annals of the Academy of Romanian Scientists - Series on Physics and Chemistry (Series Editor)

Bulletin of the Polytechnic Institute of Iasi – Section Chemistry and Chemical Engineering

Peer J, Associate Editor

Water, Associate Editor

- referent pentru reviste internaționale:

Bulletin of Iasi Polytechnic Institute, Environmental Engineering and Management Journal Iasi Polytechnic Magazine, Bioprocess Engineering, Brazilian Journal of Chemical Engineering, Cellulose Chemistry and Technology, Chemical Engineering Journal, Chemosphere, CLEAN-Water, Air, Soil, Critical Reviews in Biotechnology, Environment International, Environmental Science and Technology, Environmental Technology, Energy, Journal of Environmental Management, Journal of Hazardous Materials, Clean-Soil Air, Water, Journal of Environmental Engineering and Landscape Management, Journal of Cleaner Production, Geoderma, International Journal of Environment and Pollution, Journal of Hazardous Materials, Bioprocess and Biosystems Engineering, Arid Land Research and Management, Universal Journal of Education and General Studies, Current Biotechnology, Journal of Research in International Business and Management, Separation Science and Technology, Resources, Conservation & Recycling, Desalination and Water Treatment, Water, Air, & Soil Pollution, Bioresource Technology, Critical Reviews in Environmental Science and Technology, Peer J, Water etc.

Referent de specialitate al editurii ECOZONE, Iasi, Romania

- expert:

- Consiliul Național al Cercetării Științifice în Învățământul Superior CNCSIS/UEFISCDI: 2001-2018
- Agenția Națională ANSTI: 2001-2002
- Program CALIST: 2004
- Programul National PN-II
- Membru al Registrului Experților al Ministerului Educației și Cercetării
- Membru al Consiliului General al Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) și președinte al Comisiei de specialitate *Ingineria Mediului* (**Ordin MEC nr. 5644 din 5 septembrie, 2012**)
- Membru al Comisiei de specialitate *Științele pământului*, Panelul 1: *Matematica și științele naturii*, a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3980 din 25 martie 2011**)
- Membru al comisiei de specialitate *Inginerie Chimică, Ingineria Materialelor și Ingineria Produselor Alimentare* a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3904/10.05.2006**)
- Expert independent al Comisiei Europene (FP6, FP7, Orizont 2020)
- Expert extern pentru evaluarea unor teze de masterat și doctorat
- Membru în comisii externe de doctorat
- Expert al Ministerului Mediului ca elaborator de Rapoarte de securitate
- Expert în cadrul a trei programe POSDRU pentru studii doctorale și două proiecte POSDRU pentru studii postdoctorale la Universitatea Tehnică *Gheorghe Asachi* din Iași, finanțate din Fondul Social European

• **MEMBRU AL UNOR ENTITĂȚI/ASOCIAȚII/COMISII PROFESIONALE ȘI ȘTIINȚIFICE:**

- Membru al *Academiei Oamenilor de Știință* din Romania
- 2002 - 2014 *Managing Editor* și, din 2014 **Editor-in-Chief** al ***Environmental Engineering and Management Journal***, editată de Departamentul de Ingineria și Managementul Mediului – Universitatea Tehnică *Gheorghe Asachi* din Iași, Romania și Editura Ecozone Iasi, Romania (inclus în CABI; Chemical Abstracts Service/SciFinder (ACS) (din 2002); EBSCO Database (din 2002); EVISA; ICAAP (International Consortium for Advancement of Academic Publications); Index Copernicus Journal Master List (ICV/2013=16.00); Journal Citation Reports® (IF/2018=1.185); MedSci; ProQuest (din 2002); CNCSIS (RO); Science Citation Index Expanded™ (Thomson ISI); SJR (SCImago Journal&Country Rank); SCOPUS (din 2008); Thomson ISI Master Journal List; Web of Science® (Thomson ISI) (H=31) (<http://omicron.ch.tuiasi.ro/EEMJ/>) ((cu factor de impact în Web of Science)
- 2000-2004 - **Editor** al ***Buletinului Institutului Politehnic din Iasi, Sectiunea Chimie și Inginerie Chimică***
- 2014 – fondator și **Editor-in-Chief** al ***Procedia-Environmental Science, Engineering and Management*** (www.procedia-esem.eu) (indexată în Scopus)
- 2014 – **Series Editor** al ***Analelor Academiei Oamenilor de Știință din Romania – Seria Științe Fizice și Chimice*** (<http://aos.ro/editura/analeleaosr/annals-on-physics-and-chemistry>)
- 2016 – **Editor asociat** al ***Peer J*** (<https://peerj.com/MGAV/>) (cu factor de impact în Web of Science) (cu factor de impact în Web of Science)
- 2017 – **Editor** al ***Water***, secțiunea ***Water and Wastewater Treatment*** (cu factor de impact în Web of Science)
- 2012 - Membru al Colectivului de redacție al revistei ***Factori și procese pedogenetice din zona temperată / Soil Forming Factors and Processes in the Temperate Region***, editată de Universitatea Al.I. Cuza din Iasi
- 2011 - Membru al Editorial Advisory Board pentru jurnalul ***Scientific Study & Research-Chemistry & Chemical Engineering, Biotechnology, Food Industry***, publicat de Universitatea *Vasile Alecsandri* din Bacău, România (indexată Web of Science)
- 2011 - Membru al Editorial Advisory Board pentru ***Journal of Engineering Studies and Research (JESR)***, publicat de Universitatea *Vasile Alecsandri* din Bacau, Romania
- 2011 - **Membru al Colectivului de redacție al revistei *Journal of Applied Sciences in Environmental Sanitation (J.ASES)***, editată de Department of Environmental Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonezia, and Indonesian Society of Sanitary and Environmental Engineers
- 2009 – Membru în ***Editorial Advisory Board*** al ***European Journal of Science and Theology***, publicat de Editura EcoZone, Iași, Romania (indexată în Scopus)
- 2009 – Membru în ***Editorial Advisory Board*** al ***Journal of Environmental Engineering and Landscape Management*** (cu factor de impact in Web of Science)
- 2009 – Membru al Comitetului Editorial al ***International Journal of Conservation Science*** (indexată Web of Science)
- 2007-2014 – membru în ***Editorial Scientific Board*** al ***The Open Biotechnology Journal***, publicat de Bentham Science Publishers
- 1997-2000 - Membru în ***Editorial Advisory Board*** al ***Bioprocess Engineering*** journal, publicat de ***Springer Verlag***, Berlin, Germania
- 2011 – membru fondator al ***Societății Naționale de Știința și Ingineria Mediului***, Cluj-Napoca, Romania (<http://snsim.ro/>), vicepresedinte din 2015
- 2012 – membru al ***Federatiei Europene a Societăților de Microbiologie***, FEMS
- 2009 - Membru al ***Societății Române de Chimie***
- 2008 – membru al ***Societății Europene de Membrane***
- 2006 – Membru al of ***International Organization for Biotechnology and Bioengineering***
- 2006 – Membru al ***European Federation of Biotechnology*** și **membru în *Experts Board al Environmental Biotechnology Section*** (2011)
- 2005 – Membru al ***INTERMEDIUNET*** România (INRO)
- 2002 – Membru al ***Asociației Absolvenților*** Facultății de Chimie Industrială, Iași, România
- 1999 – Membru al ***Organizației Academice pentru Ingineria Mediului și Dezvoltare Durabilă***, Iași, Romania
- 1996 – Membru al ***Societății Române de Inginerie Chimică***
- 1991 – Membru fondator al ***Societății Române de Biongerie and Biotehnologie***

• **PROFESOR INVITAT ȘI PROGRAME INTERUNIVERSITARE**

- profesor invitat

2019 - Vienna University of Technology, Austria
 2019 - University *Frederico II*, Napoli, Italy
 2018 - Technical University of Crete, Greece
 2017 - University of Natural Resources and Life Sciences, Vienna, Austria
 2016 – University of Minho, Portugal
 2015 - University of Natural Resources and Life Sciences, Vienna, Austria
 2015 - Technical University of Crete, Greece
 2014 - University Rennes, France
 2014 - University of Maribor, Slovenia
 2014 - University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland
 2013 - University del Insubria, Varese, Italy
 2013 - University *Alma Mater Studiorum* Bologna, Italy
 2013 - Vienna University of Technology, Vienna, Austria
 2012 - University *Frederico II*, Naples, Italy
 2012 - University *Alma Mater Studiorum*, Bologna, Italy
 2012 - Vienna University of Technology, Vienna, Austria
 2011 - University *Frederico II*, Napoli, Italy
 2011 - *TECHNION* - Israel Institute of Technology, Haifa, Israel
 2011 - University *Alma Mater Studiorum* Bologna, Italy
 2011 - University of Padova, Italy
 2011 - Minho University, Braga, Portugal
 2010 - University of Twente, The Netherlands
 2010 - Vienna University of Technology, Austria
 2009 - *Pannon University*, Veszprem, Hungary
 2007 - *Danish University of Technology*, 2007, Copenhagen, Denmark
 2007 - *Vienna University of Technology*, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, August 2007
 2006 - *University Minho*, Portugal
 2005 - *University Minho*, Portugal, 2005 Lund University, *International Institute for Industrial Environmental Economics*
 2004 - *Henry Poincaré University*, Nancy1, European Summer School: *Human Environment: Energy, Forests, Health and Society*, September 3-10
 2004 - Lund University, *International Institute for Industrial Environmental Economics*

- acorduri bilaterale și programe Erasmus și Erasmus+

2011-2014 University Maribor, Slovenia
 2011-2014 University of Study dell'Insubria, Varese, Italy,
 2010-2013 University of Study, *Federico II*, Naples, Italy,
 2010-2013 *Alma Mater Studiorum* University of Study, Bologna, Italy,
 2009-2014 Twente University Netherlands,
 2008-2013 University Minho, Portugal,
 2014-2021 University Minho, Portugal,
 2014-2021 University of Natural Resources and Life Sciences, Austria
 2014-2021 Technical University of Crete, Grecia
 2014-2021 Universidade do Minho, Portugalia
 2014-2021 University of Maribor, Slovenia
 2014-2021 Hacettepe University Ankara, Turcia
 2014-2021 Karabuk University, Turcia
 2014-2017 Twente University Netherlands,
 2014-2021 University of Study, *Federico II*, Naples, Italy,
 2014-2021 *Alma Mater Studiorum* University of Study, Bologna, Italy
 2017-2020 University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland – **Swiss-European Mobility Programme**
 2019-2021 Twente University Netherlands,
 2018-2021 University Vigo, Spain
 2019-2021 University Almeria, Spain
 2019-2021 National Technical University, Athene, Grecia

- **PREMII ȘI NOMINALIZĂRI**

- **Premii:**

- Premiul “**Nicolae Teclu**” al **Academiei Române, Secția Chimie**, acordat pentru grupul de lucrări “Studiul fenomenelor de transfer in sisteme polidisperse cu aplicatii la bioreactoare”, pentru anul 1995;
- **Diplomă de excelență** și **Medalia „Inventica”** 2008, acordate de Societatea Inventatorilor din România și Institutul Național de Inventică, Iași, la Salonul Internațional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic, „Inventica 2008”, Iasi, Romania;
- **Diploma pentru excelență în cercetare** și **Medalia „Gheorghe Asachi”** acordate de Senatul Universității Tehnice „Gheorghe Asachi” din Iași, Romania, 2007;
- **Diploma de excelență pentru cercetare inovativă** și **Medalia de aur** acordată de European Exhibition of Creativity and Innovation **EUROINVENT 2010**, 7-9 mai, Iasi, Romania;
- **Diploma de excelență** acordată de European Exhibition of Creativity and Innovation, 2011, Iasi, Romania.
- **Diploma și Marele Premiu** al National Salon and Scientific Books din cadrul **EuroInvent 2012, European Exhibition of Creativity and Innovation**, 11 mai, Iasi, Romania
- **Best Paper Award**, 2012, acordat de **Editura Springer**, pentru lucrarea științifică *Soil and groundwater cleanup: benefits and limits of emerging technologies*, publicată în jurnalul *Clean Technologies and Environmental Policy*, vol. 13, No. 2, pp. 241-268, 2011;
- **Best Poster Award**, 2012, acordat în cadrul Global Conference on Global Warming **GCGW-12**, 8-12 iulie, 2012, Istanbul, Turcia;
- **Diploma de Excelență** acordată pentru *Environmental Engineering and Management Journal*, în cadrul *National Salon of Technical and Scientific Books, EuroInvent*, Iasi, Romania, 2013.
- **Diploma de Excelență în Cercetare**, acordată de Senatul Universității Tehnice „Gheorghe Asachi” din Iași, Romania, 2014;
- **Premiul AGIR** pentru cartea *Metode de evaluare a efectelor poluării aerului cu poluanți particulați asupra sănătății copiilor*, ISBN 9786062501211, Editura MatrixRom, 2014;
- **Diploma de apreciere**, pentru *Environmental Engineering and Management Journal* și Editor-in-Chief, EuroInvent 2015, Iasi, Romania.

- **Prezentări biografice și nominalizări:**

- “2000 outstanding people of the 20th century”, first edition, 1998;
- “International woman of the year” pentru intervalul 1997-2004, de către International Biographical Centre -Cambridge, Anglia.
- “WHO’s WHO” in Romania, 2002; 2010; 2013
- *Women in Chemistry — Interview with Maria Gavrilescu*, publicat in ChemistryViews (Wiley), 3 May 2011, DOI: [10.1002/chemv.201000059](https://doi.org/10.1002/chemv.201000059), cu ocazia “2011 the International Year of Chemistry (IYC 2011) and the Centenary of Marie Curie’s Nobel prize in Chemistry”.

**APTITUDINI ȘI
COMPETENȚE
INFORMATICE**

Windows, Word, Excel, Power Point, Corel PhotoPaint, web-browsing

**PERMIS DE
CONDUCERE**

Categoria B

**INFORMAȚII
SUPLIMENTARE**
PORTOFOLIUL ȘTIINȚIFIC:
a) Publicații, conferințe, comunicări, rapoarte, brevete:
763 titluri:

- **22 cărți (4 ca editor)**
- **22 capitole în cărți de editor** (Wiley, Springer, Elsevier, Signpost)
- **9 manuale pentru studenți** (tipărite sau în formă electronică)
- **lucrări publicate: 315**
 - lucrări publicate în jurnale cotate ISI – **164** și ISI Proceedings – **16**
 - lucrări publicate în jurnale cu referenți și incluse în baze de date: **98**
 - lucrări publicate în volume ale conferințelor, cu referenți: **37**
- **conferințe și keynotes: 53**
- **prezentări publice la evenimente științifice naționale și internaționale** (congrese, simpozioane, conferințe, workshopuri – prezentări orale și postere): **282**
- **rapoarte de cercetare: 47**
- **brevete: 12** (9 incluse în *Derwent Innovations Index*) + **1 cerere** de brevet la OSIM

b) Peste 4100 citări ale lucrărilor publicate în jurnale ISI (peste 3500 fără autocitări)

Peste 7000 citări în Google Scholar

Hirsch index H = 30 în Web of Science, H = 31 în Scopus, H = 39 în Google Scholar
c) organizator/membru în comitete ale unor conferințe, workshopuri: 60
d) Acorduri și programme Erasmus și Erasmus+ – în calitate de coordonator: 21
e) Teme/granturi de cercetare:

- **produse noi și tehnologii originale: 8**
- **teme/contracte de cercetare cu companii industriale: 20** (10 ca responsabil sau director de proiect, 10 ca membru al grupului de cercetare)
- **granturi naționale: 29** (17 director de proiect)
 - 10 granturi CNCSIS (6 director)
 - 6 granturi PNCDI-I (1 AGRAL, 5 CEEX, membru în echipa de cercetare)
 - 3 granturi PNCDI-II (Programul IDEI, ca director)
 - 4 granturi PNIII (2 ca director)
 - 6 granturi acordate de Ministerul Cercetării și Tehnologiei (director)
- **granturi internaționale: 6** (membru al echipei de cercetare)

ANNEXE Lista publicațiilor științifice

PROFESSOR MARIA GAVRILESCU

List of Publications

Books and Chapters

2019

1. *Bioremediation of Persistent Toxic Substances: From Conventional to New Approaches in Using Microorganisms and Plants*, Mihaela Roșca, Raluca-Maria Hlihor, **Maria Gavrilescu**
In: *Microbial Technology for the Welfare of Society*, Kumar A.P. (Ed.), Springer Singapore, pp. 289-312, 2019, ISBN 978-981-13-8844-6
2. *Exploring and Exploiting the Abilities of Microorganisms, Plants and their Interactions for Environmental Bioremediation (in Romanian: Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului)*
Maria Gavrilescu (coordinator), Mariana Diaconu, Laura Bulgariu, Irina Volf, Cezar Catrinescu, Camelia Smaranda, Petronele Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Laura-Carmen Apostol, Elena-Diana Comănișă, Mihaela Roșca, Sebastian Ionuț Vasiliță
Editura Performantica Iași, 2019, ISBN 978 860 66 856904, 252 pags.
3. *Solid Waste Management for Circular Economy: Challenges and Opportunities in Romania – The Case Study of Iasi County*, Cristina Ghinea, **Maria Gavrilescu**
In: *Towards Zero Waste. Circular Economy Boost, Waste to Resources*, Vol. 6, María-Laura Franco-García, Jorge Carlos Carpio-Aguilar, Hans Bressers, Springer International Publishing, Amsterdam, pp. 25-60, ISBN 978-3-319-92930-9, https://doi.org/10.1007/978-3-319-92931-6_3 (2019)

2018

4. *Modeling Dynamics of Pesticides In Vegetable Products and Risk Assessments on Human Health (in Romanian: Modelarea dinamicii pesticidelor în produse vegetale și estimarea riscurilor asupra sănătății umane)*
Raluca Maria-Hlihor, **Maria Gavrilescu** (Editors)
Politehniun Publishing House, 2018, ISBN 978-973-621-477-6, 205 pags.
5. *Strategies and Solutions for Eco-Innovation and Eco-Design of Processes and Products from Recyclable Materials in the Context of Circular Economy. Guide to Good Practice (in Romanian: Strategii și soluții pentru eco-inovarea și eco-proiectarea unor procese și produse din materialele reciclabile în contextul economiei circulare. Ghid de bune practici)*
Maria Gavrilescu (Editor), Igor Crețescu, Teodor Măluțan, Adrian-Cătălin Puițel, Camelia Smaranda, Petronela Cozma, Raluca-Maria Hlihor, Isabela-Maria Simion, Diana-Elena Comăniță, Mihaela Roșca, Teofil Câmpean, Politehniun Publishing House, 2018, ISBN 978-973-621-481-3

2017

6. *Extending Production Waste Life Cycle and Energy Saving by Eco-Innovation and Eco-Design: The Case of Packaging Manufacturing*, **Maria Gavrilescu**, Teofil Câmpean, Dan-Alexandru Gavrilescu,
In: *Nearly zero Energy Communities, Proceedings of the Conference for Sustainable Energy (CSE) 2017*, Ion Visa, Anca Duta (Editori), Springer Proceedings in Energy, pp. 611-631, ISBN: 978-3-319-63214-8
7. *Environmental Bioremediation by Biosorption and Bioaccumulation: Current State and New Perspectives*
Raluca-Maria Hlihor, Laura Carmen Apostol, **Maria Gavrilescu**
In: *Enhancing Remediation of Environmental Pollutants - Biological and Non-Biological Approaches*
Editor: N. Anjum, Springer Science+Business Media (New York), 2017, pp. 289-315, ISBN: 978-3-319-55422-8, DOI: 10.1007/978-3-319-55426-6_14, (included in WEB of Science)
8. *Elaboration, evaluation and presentation of scientific materials. Strategies, ethics and deontology (in Romanian: Elaborarea, evaluarea și prezentarea materialelor științifice. Strategii, etică și deontologie)*
Maria Gavrilescu
Politehniun Publishing House, Iasi, Romania, ISBN 978-973-621-470-7, 100 pages

- 2016**
9. *Theoretical Predictive Air Quality Models*
Maria Gavrilesco
In: *Comprehensive Analytical Chemistry, Volume 73, The Quality of Air, 1st Edition*
Editors: Miguel de la Guardia, Sergio Armenta,
Elsevier, Amsterdam, pp. 97-113, 2016, eBook ISBN 9780444636065, Print ISBN 9780444636058
DOI: 10.1016/bs.coac.2016.03.019 (included in WEB of Science)
10. *Biosorption and Bioaccumulation, Principles and Applications in Environmental Bioremediation*
Editor: **Maria Gavrilesco**,
(includes 9 chapters, all co-authored by Maria Gavrilesco)
Politehniun Publishing House, ISBN: 978-973-621-457-8, 350 pages
- 2015**
11. *Bioremediation of Heavy Metals by Microalgae*
Laura Bulgariu, **Maria Gavrilesco**
In: *Handbook of Marine Microalgae: Biotechnology Advances*, Editor S.K. Kim, Elsevier Inc., 2015, pp. 457-469, ISBN: 978-0-12-800776-1
- 2014**
12. *Biomass Potential for Sustainable Environment, Biorefinery Products and Energy*
Maria Gavrilesco
In: *Sustainable Energy in the Built Environment-Steps Towards nZEB*
Editor Ion Visa,
Springer International Publishing, 2014, pp. 169-194
13. *Behaviour of Organic Contaminants in Soil Environment*
Camelia Smaranda, **Maria Gavrilesco**
In: *Current Topics, Concepts and Research Priorities in Environmental Chemistry*, Editor Carmen Zaharia, Vol. III, Alexandru Ioan Cuza University Press, Iasi, Romania, 2014, pp. 83-111, ISBN 978-973-703-797-8, vol. III: ISBN 978-606-714-062-0
14. *Contaminated Soils: a Guide to Sampling and Analysis*,
Editori: **Gavrilesco M.**, Bulgariu L.
Future Science, London, 2014, ISBN: 978-1-909453-15-9, 112 pages.
15. *Colloid-Mediated Transport and Fate of Contaminants in Soils*
Maria Gavrilesco
In: *The Role of Colloidal Systems in Environmental Protection*, Editor Monzer Fanun,
ISBN: 9780444632838, 55 pags, 397-451. Elsevier, Amstredam, 2014
DOI: 10.1016/B978-0-444-63283-8.00017-X (included in Web of Science)
16. *Biorefinery Systems: An Overview*
Maria Gavrilesco
Cap. 15, In: *Bioenergy Research: Advances and Applications*, Editori: Gupta V., Tuohy M., Kubicek C., Sadler J., Xu F., Elsevier, ISBN-10: 0444595619, ISBN-13: 9780444595614, 23 pags, 219-241.
<http://dx.doi.org/10.1016/B978-0-444-59561-4.00014-0>
17. *Key Features of Contaminated Soils*
Petronela Cozma, **Maria Gavrilesco**
In: *Contaminated Soils: a Guide to Sampling and Analysis*, Editori: Gavrilesco M., Bulgariu L., Future Science, London, 2014, 12 pags. 7-17, ISBN: 978-1-909453-15-9
18. *Organic Compounds into the Atmosphere from various Emission Sources and their Impact on Health* (in Romanian, with an Abstract in English)
Elena-Diana Comanita, Mihaela Rosca, **Maria Gavrilesco**
Methods of Evaluating the Effects o Particulate Matter Air Pollution on Children's Health, Editors: S. Iordache, D. Dunea, MatrixRom, Bucharest, Romania, 2014, ISBN 9786062501211, pp. 221-266.
- 2013**
19. *Static Mixing in Fermentation Processes*
Maria Gavrilesco
In: *Encyclopedia of Industrial Biotechnology*, Editor Michael C. Flickinger, John Wiley & Sons, Inc., New York, USA, ISBN: 9780470054581, pp. 1-23, DOI: 10.1002/9780470054581.eib552.pub2
2013,
<http://onlinelibrary.wiley.com/doi/10.1002/9780470054581.eib552.pub2/abstract>
- 2012**
20. *Aspects Concerning the Behaviour of Heavy Metals In Soil*
Vasile Lucian Pavel, Florian Stătescu, **Maria Gavrilesco**, In: *Current topics, Concepts and Research Priorities in Environmental Chemistry*, Editor Carmen Zaharia, Editura Universităţii „Alexandru Ioan Cuza” din Iaşi, pp. 341-358, 2012.

2011

21. *Sustainable Industrial Production* (in Romanian, *Producție industrial durabilă*)
Maria Gavrilesco
Editura Politehniun, Iasi, 2011, 250 pags.
22. *Landfill-Ultimate Waste Management Technique*
A. Omran, H.A. Azziz, **Maria Gavrilesco**, A.M. Schiopu
Published by Faculty of Engineering, University of Sam Ratulangi Manado, Indonesia, 2011
ISBN 978-979-17509-8-1, 152 pags.
23. *Sustainability*
Maria Gavrilesco
In: *Comprehensive Biotechnology*, Editor Murray Moo-Young, vol. 2, *Engineering Fundamentals in Biotechnology*, Editor Collin Webb, Elsevier, 2011, 19 pags., 905-923
(included in Web of Science)

2010

24. *Biosorption in Environmental Remediation*
Maria Gavrilesco
In: *Bioremediation Technology – Theory & Application*, Editor M.H. Fulekar, Springer Verlag - Capital Publishing, New Delhi, 2010, 35-99
(included in Web of Science)
25. *Impacts of Sorption, Migration and Bioavailability of Contaminants on Soil Bioremediation*
Florentina Anca Căliman, **Maria Gavrilesco**
In: *Trends in Bioremediation and Phytoremediation*, Ed. Grazyna Plaza, *Research Signpost, Kerala, India*, 81-111, 2010

2009

26. *Persistent Pollutants in the Environment*
I. Pharmaceuticals and Personal Care Compounds (in Romanian, *Poluanți persistenți în mediu I. Produse farmaceutice și de igienă*)
Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,
Maria Gavrilesco (Editor)
Politehniun Press Iași, Romania, 2009, ISBN 978-973-621-280-2, vol. I: ISBN 978-973-621-281-9
27. *Persistent Pollutants in the Environment*
II. Persistent Organic Pollutants and Dyes (in Romanian, *Poluanți persistenți în mediu II. Poluanți organici persistenți și coloranți*)
Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,
Maria Gavrilesco (Editor), Editura Politehniun, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. II: ISBN 978-973-621-282-6
28. *Persistent Pollutants in the Environment*
III. Heavy Metals (in Romanian, *Poluanți persistenți în mediu III. Metale grele*)
Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,
Maria Gavrilesco (Editor), Editura Politehniun, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. III: ISBN 978-973-621-283-3.
29. *Persistent Pollutants in the Environment*
IV. Identification, Integrated Assessment and Management of Risks Associated with Impacts Induced in the Environment by Persistent Pollutants, (in Romanian, *Poluanți persistenți în mediu IV. Identificarea, estimarea și managementul integrat al riscurilor asociate impacturilor induse în mediu de poluanții persistenți*)
Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,
Maria Gavrilesco (Editor), Editura Politehniun, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. IV: ISBN 978-973-621-284-0.

2008

30. *Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)
Maria Gavrilesco
Ecozone, Iași, Romania (2008), Third Revised Edition, ISBN 978-973-7645-55-5; 233 pages.

2007

31. *Pollution Prevention and Premises on Implementing Cleaner Production in Paper Industry* (in Romanian, *Prevenirea poluării și premise pentru implementarea producției curate în industria hârtiei*)
Maria Gavrilesco, Cristina Costache
In: *Sustainable Water Management Practices in the Paper Industry (Practici durabile pentru managementul apei în industria hârtiei)*, Editors: C. Teodosiu, D. Gavrilesco, F. Ungureanu, Cermi Press, Iasi, Romania (2007), ISBN (13) 978-973-667-253-8, pp. 75-155.

- 2006**
32. *Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)
Maria Gavrilescu
Ecozone Press, Iași, Romania (2006). , Second Edition, ISBN (10) 973-86848-9-7; ISBN (13) 978-973-86848-9-8, 208 pages.
- 2005**
33. *Modelling and Simulation of Processes in Environmental Engineering* (in Romanian, *Modelarea și simularea proceselor în ingineria mediului*)
Maria Gavrilescu, Florina Ungureanu, Corneliu Cojocaru, Matei Macoveanu, ECOZONE, Iasi, Romania, 2005, ISBN: 973-86848-6-2, vol.I, ISBN: 973-86848-7-0, 448 pages.
34. *Source Reduction and Waste Minimization* (in Romanian, *Reducerea poluării la sursă și minimizarea deșeurilor*), second edition
Maria Gavrilescu, Mihai Nicu
ECOZONE Press, Iasi, Romania, 2005, ISBN 973-86-84-8-4-6, 241 pages.
35. *Transnational Research Co-Operation*
Maria Gavrilescu
In: *Opportunities and Challenges for Transnational Research Co-Operation*, Editors: C. Teodosiu, S. Brodersen, M. Sogaard Jorgensen, EcoZone Press, Iasi, Romania, 2005, ISBN 973 7645-11-1, pp.139-143
- 2004**
36. *Source Reduction and Waste Minimization* (in Romanian, *Reducerea poluării la sursă și minimizarea deșeurilor*)
Maria Gavrilescu, Mihai Nicu
ECOZONE Press, Iasi, Romania, 2004, ISBN 973-86847-0-6, 177 pages.
37. *Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)
Maria Gavrilescu
ECOZONE, Iasi, Romania, (2003), ISBN 973-86082-3-6, 160 pages.
- 2002**
38. *Ion-Exchange Processes in Environmental Protection* (in Romanian, *Procese de schimb ionic în protecția mediului*)
Matei Macoveanu, Doina Bilba, Nicolae Bilba, **Maria Gavrilescu**, Gabriela Soreanu MatrixRom Press, Bucharest, Romania, (2002), ISBN 973-685-396-9, 462 pages.
- 2001**
39. *Engineering and Management of Minimization of Pollutants and Waste at Source* (in Romanian, *Ingineria și managementul minimizării poluanților și deșeurilor la sursă*)
Mihai Nicu, **Maria Gavrilescu**, Florina Ungureanu
"Gh. Asachi" Technical University Printing House, Iași, Romania, 2001, 184 pages.
40. *Gas-Lift Bioreactors in Biotechnology and Environmental Protection* (in Romanian, *Bioreactoare air-lift in biotehnologie și protecția mediului*)
Maria Gavrilescu
In: *Advances in Biotechnology* (in Romanian: *Progrese în biotehnologie*), Popa, V.I. (Ed.), SedcomLibris Press, Iasi, Romania, 1999, ISBN 973-8028-79-5, pages. 104-159.
- 2000**
41. *Stirred-Tank Chemical Reactors* (in Romanian, *Reactoare chimice cu agitare mecanică*)
Maria Gavrilescu, Ion Grigoriu, Rodica Viorica Roman
VIE Press, Iasi, Romania, ISBN 973-99759-2-5, 286 pages., 2000
- 1999**
42. *Static Mixing, in Fermentation Processes*
R.Z. Tudose, **Maria Gavrilescu** In: *Encyclopedia of Bioprocess Technology: Fermentation, Biocatalysis and Bioseparation*
M. Flickinger, M. and Drew S. (Eds.), John Wiley & Sons, New York, ISBN 0-471- 13822-3, p. 2487-2501, 1999
- 1997**
43. *Transfer Phenomena in Bioprocesses* (in Romanian, *Fenomene de transfer în bioprocese*)
Rodica-Viorica Roman, **Maria Gavrilescu**
Dosoitei Press, Iasi, Romania, (1997). , ISBN 973-9135-58-7, 284 pages.
44. *Pneumatic Bioreactors* (in Romanian, *Bioreactoare pneumatice*)
Maria Gavrilescu
Dosoitei Press, Iasi, Romania, (1997), ISBN 973-9135-37-9, 276 pages.

Manuals/Courses

On line

Elaboration, writing and supporting scientific papers (in Romanian, Elaborarea, scrierea și susținerea lucrărilor științifice)

Maria Gavrilescu

Course for PhD Students for Advanced Academic Program, within The Doctoral School of "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/ERSLS/ERSLS.htm>

Chemical and Biological Process Engineering (in Romanian: Ingineria proceselor chimice și biologice)

Maria Gavrilescu

Course for Engineering Students involved in the specialization "Engineering and Environmental Protection in Industry", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>

Integrated Pollution Prevention and Control (in Romanian, Prevenirea și controlul integrat al poluării)

Maria Gavrilescu

Course for Undergraduate Students involved in the specialization "Engineering and Environmental Protection in Industry", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>

Sustainable Industrial Production

Maria Gavrilescu

Course for Master Students involved in the specialization "Environmental Management and Sustainable Energy", "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>

Sustainable Industrial Production (in Romanian, Producție industrial durabilă)

Maria Gavrilescu

Course for Master Students involved in the specialization "Environmental Management", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>

CD *Occupational Health and Safety Management (CD support)*

Maria Gavrilescu

Postgraduate course: *Design and Implementation of OHSAS Management System*
Technical University Iasi, MISP Department

2002 *Risk Assessment and Management (in Romanian, Estimarea și managementul riscului)*

Maria Gavrilescu

"Al. I. Cuza" University and "Gh. Asachi" Technical University of Iasi, Open Distance Learning Master Course – *Environmental Management*, 130 pages.

2001 *Modelling and Simulation of Processes for Environmental Protection (in Romanian, Modelarea și simularea proceselor pentru protecția mediului)*

Maria Gavrilescu

"Al. I. Cuza" University and "Gh. Asachi" Technical University of Iasi, Open Distance Learning Master Course – *Environmental Management*, 130 pages.

Reduction of Pollution at Source and Waste Minimization (in Romanian, Reducerea poluării la sursă și minimizarea deșeurilor)

Maria Gavrilescu, Mihai Nicu

"Al. I. Cuza" University and "Gh. Asachi" Technical University of Iasi, Open Distance Learning Master Course – *Environmental Management*, 110 pages.

Papers in journals

ISI ranked journals

2019

1. *Modelling the behavior of pesticide residues in tomatoes and their associated long-term exposure risks*,
Raluca-Maria Hlihor, Manuela Olga Pogăcean, Mihaela Rosca, Petronela Cozma, **Maria Gavrilesu**
Journal of Environmental Management, **233**, 523-529 (2019),
<https://doi.org/10.1016/j.jenvman.2018.11.045>, (IF 4.005)
2. *A special issue dedicated to the 9th International Conference on Environmental Engineering and Management, ICEEM09, 2017 September 6-9, 2017, Bologna, Italy*
Teodosiu, Carmen; Fava, Fabio; **Gavrilescu, Maria**
Environmental Engineering and Management Journal **18**, 1621-1624 (2019) (IF 1.086)
3. *Influence of controlled release fertilizers on liliu regale species growth and flowering*
Brinza Maria, Chelariu, Elena Liliana, Hlihor Raluca Maria, **Gavrilescu Maria**, Draghia Lucia
Environmental Engineering and Management Journal, **18**, 1153-1162 (2019). (IF 1.086)

2018

4. *Green and Circular Economy ECOMONDO 2017 21th International Trade Fair of Material & Energy Recovery and Sustainable Development*
Fabio Fava, Grazia Totaro, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **17**, 2285-2286 (2018) (IF 1.334)
5. *Evaluation of human health risks associated with pesticide dietary intake - an overview on quantitative uncertainty analysis*,
Petronela Cozma, Marius Gavrilesu, Mihaela Roșca, Laura Carmen Apostol, Raluca-Maria Hlihor, **Maria Gavrilesu**
Environmental Engineering and Management Journal, **17**, 2263-2274 (2018) (IF 1.334)
6. *Evaluation of eco-efficiency by multicriteria decision analysis. Case study of eco-innovated and eco-designed products from recyclable waste*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Mihaela Roșca, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **17**, 1791-1804 (2018) (IF 1.334)
7. *Compressive strength analysis on problematic soils stabilized with fly ash in Jordan*
Monther Abdelhadi, Ancuta Rotaru, **Maria Gavrilesu**, Nicolae Țăranu
Environmental Engineering and Management Journal, **17**, 1855-1861 (2018) (IF 1.334)
8. *Comparison of Rhodotorula sp and Bacillus megaterium in the removal of cadmium ions from liquid effluents*
Mihaela Rosca, Raluca-Maria Hlihor, Petronela Cozma, Elena Niculina Dragoi, Mariana Diaconu, Bruna Silva, Teresa Tavares, **Maria Gavrilesu**,
Green Processing and Synthesis, **7**, 74-88 (2018), DOI: 10.1515/gps-2016-0218 (IF 0.736)
9. *Life Cycle Assessment applied to circular designed construction materials*
Zanni S., Simion I.M., **Gavrilescu M.**, Bonoli A.
Procedia CIRP, **69**, 154-159, (2018), DOI: 10.1016/j.procir.2017.11.040

2017

10. *Eco-friendly corrugated board manufacturing and sustainable packaging*
Teofil Câmpean, Florin Grad, Ciprian Grădinariu, Patrașcu Corina, Maria Gavrilesu, Dan Gavrilesu
Environmental Engineering and Management Journal, **16**, 705-714 (2017) (IF 1.334)
11. *Biosorption potential of dead and living Arthrobacter viscosus biomass in the removal of Cr(VI): Batch and column studies*
Raluca Maria Hlihor, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilesu**
Process Safety and Environmental Protection, **108**, 44-56 (2017), DOI: 10.1016/j.psep.2016.06.016 (IF 3.441)
12. *Adsorption of organic pollutants onto a Romanian soil: Column dynamics and transport*
Camelia Smaranda, Maria-Cristina Popescu, Dumitru Bulgariu, Teodor Măluțan, **Maria Gavrilesu**
Process Safety and Environmental Protection, **108**, 108-120 (2017), DOI: 10.1016/j.psep.2016.06.027 (IF 3.441)

13. *Rhizobacteria and plant symbiosis in heavy metal uptake and its implications for soil bioremediation*, Dana Luminița Sobariu, Daniela Ionela Tudorache Fertu, Mariana Diaconu, Lucian Vasile Pavel, Raluca-Maria Hlihor, Elena Niculina Drăgoi, Silvia Curteanu, Markus Lenz, Philippe François-Xavier Corvini, **Maria Gavrilesu**, *New Biotechnology*, **39(A)**, 125-134 (2017), DOI: 10.1016/j.nbt.2016.09.002 (IF 3.733)
14. *Integrating sustainability indicators for tracking anthropogenic pressure on the earth –the footprint family*, Cristina Ghinea, Teofil Campean, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, **16**, 935-948 (2017), DOI: 10.30638/eemj.2017.095 (IF 1.334)
15. *Bioremediation: an overview on current practices, advances, and new perspectives in environmental pollution treatment*
Hlihor Raluca Maria, **Gavrilesu Maria**, Tavares Teresa, Favier Lidia, Olivieri Giuseppe
BioMed Research International, vol. 2017, Article ID 6327610, DOI: 10.1155/2017/6327610 (IF 2.583)
16. *The role of Arthrobacter viscosus in the removal of Pb(II) from aqueous solutions*
Hlihor Raluca-Maria, Roșca Mihaela, Tavares Teresa, **Gavrilesu Maria**
Water Science and Technology, **76**, 1726-1738, (2017), DOI: 10.2166/wst.2017.360 (IF 1.247)
17. *Material & energy recovery and sustainable development, ECOMONDO 2016*,
Fava Fabio, Totaro Grazia, **Gavrilesu Maria**
Environmental Engineering and Management Journal, **16** (8), 1649-1650 (2017) (IF 1.334)
18. *A special issue dedicated to the 8th International Conference on Environmental Engineering and Management, ICEEM08*,
Teodosiu Carmen. **Gavrilesu Maria**, Marzocchella Antonio
Environmental Engineering and Management Journal, **16** (4), 761-764 (2017) (IF 1.334)
19. *The 8th International Conference on Environmental Engineering and Management, ICEEM08*
Teodosiu Carmen. **Gavrilesu Maria**, Marzocchella Antonio
Environmental Engineering and Management Journal, **16** (3), 509-512 (2017) DOI: 10.30638/eemj.2017.051 (IF 1.334)

2016

20. *Organochlorine pesticide residues in soil and edible vegetable*
Vasile Stoleru, Neculai Munteanu, Carmen Hura, Vincenzo Michele Sellitto, **Maria Gavrilesu**
Environmental Engineering and Management Journal, **15**, 527-535 (2016) DOI: 10.30638/eemj.2016.057 (IF 1.334)
21. *Occurrence of plastic waste in the environment: ecological and health risks*
Elena-Diana Comanita, Raluca Maria Hlihor, Cristina Ghinea, **Maria Gavrilesu**
Environmental Engineering and Management Journal, **15**, 675-685 (2016) DOI: 10.30638/eemj.2016.073 (IF 1.334)
22. *Costs analysis of municipal solid waste management scenarios: IASI – Romania case study*,
Cristina Ghinea, **Maria Gavrilesu**
Journal of Environmental Engineering and Landscape Management, **24**, 185-199 (2016) DOI: 10.3846/16486897.2016.1173041 (IF 1.068)
23. *Forecasting municipal solid waste generation using prognostic tools and regression analysis*,
C. Ghinea, E. N. Dragoi, E.-D. Comanita, M. Gavrilesu, T. Campean, S. Curteanu **Maria Gavrilesu**
Journal of Environmental Management, **182**, 80-93 (2016), DOI: 10.1016/j.jenvman.2016.07.026 (IF 4.005)
24. *Removal of Erythrosine B dye from water effluents using crop waste pumpkin seed hulls as adsorbent*
Laura Carmen Apostol, Cristina Ghinea, Madalena Alves, **Maria Gavrilesu**
Desalination and Water Treatment, **57**, 22585-22608 (2016), DOI: 10.1080/19443994.2015.1132477 (IF 1.383)
25. *Material & energy recovery and sustainable development. Ecomondo 2015, 19th International Trade Fair o Material & Energy Recovery and Sustainable Development*,
Fabio Fava, Grazia Tatoro, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **15**, 1905-1906 (2016) (IF 1.334)

2015

26. *Emerging pollutants in the environment: present and future challenges in biomonitoring, ecological risks and bioremediation*,
Maria Gavrilesu, Kateřina Demnerová, Jens Aamand, Spyros Agathos, Fabio Fava,
New Biotechnology, **32**, 147-156 (2015) DOI: 10.1016/j.nbt.2014.01.001 (IF 3.773)

27. *Experimental analysis and mathematical prediction of Cd(II) removal by biosorption using support vector machines and genetic algorithms*,
Raluca-Maria Hlihor, Mariana Diaconu, Florin Leon, Silvia Curteanu, Teresa Tavares, **María Gavrilescu**,
New Biotechnology, **23**, 358-368 (2015) DOI: 10.1016/j.nbt.2014.08.003 (IF 3.733)
28. *Material & energy recovery and sustainable development. Ecomondo 2014 18th International Trade Fair Of Material & Energy Recovery and Sustainable Development*,
Fabio Fava, Grazia Tatoro, **María Gavrilescu**,
Environmental Engineering and Management Journal, **14**, 1475-1476 (2015). (IF 1.334)
29. *Modelling and optimization of CO₂ absorption in pneumatic contactors using Artificial Neural Networks Developed with Clonal Selection Based Algorithm*,
Petronela Cozma, Elena Niculina Drăgoi, Ioan Mămăligă, Silvia Curteanu, Walter Wukovits,
Anton Friedl, **María Gavrilescu**,
International Journal of Nonlinear Sciences and Numerical Simulation, **16**, 97-110 (2015) DOI: 10.1515/ijnsns-2014-0052 (IF 1.162)
30. *Removal of carbamazepine by electrocoagulation: investigation of some key operational parameters*
Tania Yehya, Lidia Favier, Yassine Kadmi, Fabrice Audonnet, Nidal Fayad, **María Gavrilescu**,
Christophe Vial,
Environmental Engineering and Management Journal, **14**, 639-645 (2015) (IF 1.334)
31. *Challenges and oportunities in green plastics: an assessment using the ELECTRE decision-aid method*,
Elena-Diana Comanita, Cristina Ghinea, Raluca-Maria Hlihor, Isabela Maria Simion, Camelia Smaranda, Lidia Favier, Mihaela Rosca, Irina Gostin, **María Gavrilescu**,**Environmental Engineering and Management Journal**, **14**, 689-702 (2015) DOI: 10.30638/eemj.2015.077 (IF 1.334)
32. *Preliminary ecotoxicological evaluation of Erythrosin B and its photocatalytic degradation products*,
Apostol Laura Carmen, Smaranda Camelia, Diaconu Mariana, **Gavrilescu Maria**,
Environmental Engineering and Management Journal, **14**, 465-471 (2015) DOI: 10.30638/eemj.2015.048 (IF 1.334)
33. *Modeling and simulation of high pressure water scrubbing technology applied for biogas upgrading*,
Petronela Cozma, Walter Wukovits, Ioan Mămăligă, Anton Friedl, **María Gavrilescu**
Clean Technologies and Environmental Policy, **17**, 373-391 (2015) DOI: 10.1007/s10098-014-0787-7 (IF 2.343)
- 2014
34. *Recent advances in biosorption of heavy metals: support tools for biosorption equilibrium, kinetics and mechanism*,
Raluca Maria Hlihor, Laura Bulgariu, Dana Luminita Sobariu, Mariana Diaconu, Teresa Tavares,
María Gavrilescu,
Revue Roumaine de Chimie, **59**, 527-538 (2014) (IF=0.37)
35. *Monitoring pesticides degradation in apple fruits and potential effects of residues on human health*,
Manuela Olga Pogăcean, Raluca Maria Hlihor, **María Gavrilescu**,
Journal of Environmental Engineering and Landscape Management, **22**, 171-182 (2014) DOI: 10.3846/16486897.2014.889697 (IF 1.068)
36. *Environmental impact assessment and thermal performances of modern earth sheltered house*,
Horia Tundrea, Sebastian George Maxineasa, Nicolae Taranu, Mihai Budescu, **María Gavrilescu**,
Isabela Maria Simion,
Environmental Engineering and Management Journal, **13**, 2363-2369 (2014) (IF 1.334)
37. *Evaluation of the environmental impact of road pavements from a life cycle perspective*,
Laura Dumitrescu, Sebastian George Maxineasa, **María Gavrilescu**, Isabela Maria Simion, Nicolae Taranu, Radu Andrei,
Environmental Engineering and Management Journal, **13**, 449-455 (2014) (IF 1.334)
38. *Life cycle assessment of waste management and recycled paper systems*,
Cristina Ghinea, Madalina Petraru, Isabela Maria Simion, Dana Sobariu, Hans Th. A. Bressers,
María Gavrilescu,
Environmental Engineering and Management Journal, **13**, 2073-2085 (2014) (IF 1.334)
- 2013
39. *Bioremediation of Cr(VI) polluted wastewaters by heat inactivated Saccharomyces cerevisiae biomass*,
Raluca Maria Hlihor, Mariana Diaconu, Ciprian Chelaru, Ion Sandu, Teresa Tavares, **María Gavrilescu**,
International Journal of Environmental Research, **7**(3), 581-594 (2013) (IF 1.019)

40. *Human health related to iodine environmental occurrence and its deficiency in water and food*, C. Preda, M.C. Ungureanu, L. Leustean, C. Cristea, V. Mogos, C. Vulpoi, **M. Gavrilesu**, *Environmental Engineering and Management Journal*, 12(5), 1045-1049 (2013).
41. *Environmental impact assessment of high pressure water scrubbing biogas upgrading technology*, Petronela Cozma, Cristina Ghinea, Ioan Mamaliga, Walter Wukovits, Anton Friedl, **Maria Gavrilesu**, *CLEAN – Soil, Air, Water*, 41(9), 917-927 (2013) DOI: 10.1002/cen.201200303 (IF 1.338)
42. *Symbiosis in the environment: biomanagement of soils contaminated with heavy metals*, Vasile Lucian Pavel, Dana-Luminita Sobariu, Ionela Daniela Tudorache Fertu, Florian Stătescu, **Maria Gavrilesu**, *European Journal of Science and Theology*, 9(4), 211-224 (2013) (IF 0.389)
43. *Comparing environmental impacts of natural inert and recycled construction and demolition waste processing using LCA*, Isabela Maria Simion, Maria Emiliana Fortuna, Alessandra Bonoli, **Maria Gavrilesu**, *Journal of Environmental Engineering and Landscape Management*, 21(4), 273-287 (2013) DOI: 10.3846/16486897.2013.852558 (IF 1.068)
44. *Ecological footprint applied in the assessment of construction and demolition waste integrated management*, I.M. Simion, C. Ghinea, S.G. Maxineasa, N. Taranu, A. Bonoli, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 12(4), 779-788 (2013) (IF 1.334)
45. *UV/TiO₂ photocatalytic degradation of xanthene dyes*, L. Pereira, R. Pereira, C.S. Oliveira, L. Apostol, **Maria Gavrilesu**, M.N. Pons, O. Zahraa, M.M. Alves, *Photochemistry and Photobiology*, 89(1), 33-39 (2013) DOI: 10.1111/j.1751-1097.2012.01208.x (IF=2.214)
46. *Effects of heavy metals on *Lepidium sativum* germination and growth*, V.L. Pavel, D.L. Sobaru, M. Diaconu, F. Statescu, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 12(4), 727-733 (2013) DOI: 10.30638/eemj.2013.089 (IF 1.334)
47. *Analysis and modelling of the solubility of biogas components in water for physical absorption processes*, Petronela Cozma, Walter Wukovits, Ioan Mamaliga, Anton Friedl, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 12(1), 147-162 (2013) (IF 1.334)
48. *Humans in the environment: comparative analysis and assessment of pesticide residues from field-grown tomatoes*, Manuela Olga Pogacean, Raluca Maria Hlihor, Cristina Preda, **Maria Gavrilesu**, *European Journal of Science and Theology*, 9(6), 79-94 (2013) (IF 0.389)
49. *Comparison of combined ethanol and biogas polygeneration facilities using exergy analysis*, Petronela Cozma, **Maria Gavrilesu**, Anton Friedl, *Environmental Engineering and Management Journal*, 12(8), 1605-1619 (2013) (IF 1.334)
50. *Inter-Reggio: concept of restoration projects of local streams*, Cristina Ghinea, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 12(8), 1737-1748 (2013).
51. *Integrated network of continuous reactors for the decontamination of gaseous streams in heterogeneous catalytic gas-liquid-solid systems*, Oana Marlena Penciu, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 12(8), 1605-1619 (2013) (IF 1.334)
52. *A special issue on progress in environmental engineering, biotechnology and management in the frame of knowledge-based sustainable economy*, **Gavrilesu Maria**, Anton Friedl, *Environmental Engineering and Management Journal*, 12(8), 1529-1532 (2013) (IF 1.334)
- 2012
53. *Reducing environmental risk of landfills: leachate treatment by reverse osmosis*, Ana-Maria Schiopu, George Ciprian Piuleac, Corneliu Cojocar, Ion Apostol, Ioan Mamaliga, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 11, 2319-2331 (2012) (IF 1.334)
54. *Sorptive removal of cadmium(II) ions from aqueous solution by mustard biomass*, Laura Bulgariu, Raluca Maria Hlihor, Dumitru Bulgariu, **Maria Gavrilesu**, *Environmental Engineering and Management Journal*, 11, 1969-1976 (2012) (IF 1.334)

55. *Aerobic biodegradation of phenol by activated sludge in a batch reactor*,
Petronela Cozma, Raluca-Maria Hlihor, Laura Carmen Apostol, Mariana Diaconu, Manuela Olga Pogacean,
Maria Gavrilescu,
***Environmental Engineering and Management Journal*, 11**, 2053-2058 (2012) (IF 1.334)
56. *A special issue dedicated to environmental biotechnology for the knowledge-based bio and green economy*,
FabioFava, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 1731-1732 (2012) (IF 1.334)
57. *Assessment of sustainability based on LCA - Case of woody biomass*,
Maria Emiliană Fortuna, Isabela Maria Simion, **Maria Gavrilescu**,
***Cellulose Chemistry and Technology*, 46**, 493-510 (2012) (IF 0.764)
58. *Biological decolorization of xanthene dyes by anaerobic granular biomass*,
Laura Carmen Apostol, Luciana Pereira, Raquel Pereira, **Maria Gavrilescu**, Maria Madalena Alves,
***Biodegradation*, 23**, 725-737 (2012) DOI: 10.1007/s10532-012-9548-7 (IF 2.41)
59. *Airlift reactors: applications in wastewater treatment*,
Petronela Cozma, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 1505-1515 (2012) (IF 1.334)
60. *Application of natural zeolites as sorbents in the clean-up of aqueous streams*,
Daniela Ionela Tudorache Fertu, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 867-878 (2012) (IF 1.334)
61. *Environmental evaluation of waste management scenarios - Significance of the boundaries*,
Cristina Ghinea, Madalina Petraru, Hans Th.A. Bressers, **Maria Gavrilescu**,
***Journal of Environmental Engineering and Landscape Management*, 20**, 76-85 (2012) DOI:
10.3846/16486897.2011.644665 (IF 1.068)
62. *Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators*,
Maria Emiliană Fortună, Isabela Maria Simion, Cristina Ghinea, Mădălina Petraru, Petronela Cozma,
Laura Carmen Apostol, Raluca Maria Hlihor, Daniela Tudorache Fertu, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 333-350 (2012) (IF 1.334)
63. *A special issue dedicated to the 6th International Conference on Environmental Engineering and Management ICEEM06, 2011*,
Carmen Teodosiu, Akos Redey, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 1-4 (2012) (IF 1.334)
64. *Evaluation of heavy metals toxicity on two microbial strains isolated from soil: Azotobacter sp. and Pichia sp.*,
Vasile Lucian Pavel, Mariana Diaconu, Dumitru Bulgariu, Florian Stănescu, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 11**, 165-168 (2012) DOI:
10.30638/eemj.2012.021 (IF 1.334)

2011

65. *Soil and groundwater cleanup: benefits and limits of emerging technologies*,
Florentina Anca Caliman, Brindusa Mihaela Robu, Camelia Smaranda,
Vasile Lucian Pavel, **Maria Gavrilescu**,
***Clean Technologies and Environmental Policy*, 13**, 241-268 (2011) DOI: 10.1007/s10098-010-0319-z (IF 2.343)
66. *Studies on sorption of Congo Red from aqueous solution onto soil*,
Camelia Smaranda, **Maria Gavrilescu**, Dumitru Bulgariu,
***International Journal of Environmental Research*, 5**, 177-188 (2011) (IF 1.019)
67. *Study of cadmium sorption on some Romanian soils*,
Vasile Lucian Pavel, Raluca-Maria Hlihor, Dumitru Bulgariu, Florian Stănescu, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 10**, 367-373 (2011) DOI: 10.30638/eemj.2011.053 (IF 1.334)
68. *Sustainability in environmental remediation*,
Maria Emiliană Fortuna, Isabela Maria Simion, **Maria Gavrilescu**,
***Environmental Engineering and Management Journal*, 10**, 1987-1996 (2011) (IF 1.334)

2010

69. *Options for the treatment and management of municipal landfill leachate in the context of integrated waste management: common and specific issues,*
Ana-Maria Schiopu, **María Gavriescu**,
CLEAN – Soil, Air, Water, **38**, 1101-1110 (2010) DOI: 10.1002/clen.200900184 **(IF 1.338)**
70. *Municipal solid waste landfilling and treatment of resulting liquid effluents,*
Ana-Maria Schiopu, **María Gavriescu**,
Environmental Engineering and Management Journal, **9**, 993-1019 (2010) **(IF 1.334)**
71. *Airlift Reactors: Hydrodynamics, mass transfer and applications in environmental remediation*
Petronela Cozma, **María Gavriescu**
Environmental Engineering and Management Journal, **9**, 681-702 (2010) **(IF 1.334)**
72. *Pollution prevention, a key to economic and environmental sustainability,*
Madalina Petraru, **María Gavriescu**,
Environmental Engineering and Management Journal, **9**, 597-614 (2010) **(IF 1.334)**
73. *Decision support models for solid waste management-an overview,*
Cristina Ghinea, **María Gavriescu**,
Environmental Engineering and Management Journal, **9**, 869-880 (2010) **(IF 1.334)**
74. *Equilibrium and kinetic studies on acid dye adsorption onto soils from Iasi area,*
Camelia Smaranda, Dumitru Bulgariu, **María Gavriescu**,
Environmental Engineering and Management Journal, **9**, 57-66 (2010) DOI: 10.30638/eemj.2010.009 **(IF 1.334)**
75. *Analysis of factors determining the behaviour of chromium in some Romanian soils,*
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **María Gavriescu**,
Environmental Engineering and Management Journal, **9**, 89-94 (2010) **(IF 1.334)**

2009

76. *Pharmaceuticals, personal care products and endocrine disrupting agents in the environment – A review,*
Florentina Anca Căliman, **María Gavriescu**,
CLEAN – Soil, Air, Water, **34**, 277-303 (2009) DOI: 10.1002/clen.200900038 **(IF 1.338)**
77. *Sorption of acid Yellow 23 from aqueous solutions onto soil*
Anca Florentina Caliman, Laura Carmen Apostol, Dumitru Bulgariu, Laura Bulgariu, **María Gavriescu**,
AFINIDAD, **66**, 465-473 (2009) **(IF 0.207)**
78. *Cadmium tolerance and adsorption by the marine brown alga Fucus vesiculosus from the Irish Sea and the Bothnian Sea*
Loredana Brinza, Charlotta A. Nygård, Matthew J. Dring, **María Gavriescu**, Liane G. Benning,
Bioresource Technology, **100**, 1727-1733 (2009) DOI: 10.1016/j.biortech.2008.09.041 **(IF 5.807)**
79. *Characterization and remediation of soils polluted with uranium,*
María Gavriescu, Vasile Lucian Pavel, Igor Cretescu,
Journal of Hazardous Materials, **163**, 475-510 (2009) DOI: 10.1016/j.jhazmat.2008.07.103, **(IF 6.434)**.
80. *Utilization of coal fly ash from power plants. II. Geopolymer obtaining,*
Maria Harja, M. Bărbuță, **María Gavriescu**,
Environmental Engineering and Management Journal, **8**, 513-520 (2009) **(IF 1.334)**.
81. *Plant protection products and their sustainable and environmentally friendly use,*
Manuela Olga Pogăcean, **María Gavriescu**,
Environmental Engineering and Management Journal, **8**, 607-627 (2009) **(IF 1.334)**.
82. *Application of natural materials as sorbents for persistent organic pollutants,*
Laura Carmen Apostol, **María Gavriescu**,
Environmental Engineering and Management Journal, **8**, 243-252 (2009) DOI: 10.30638/eemj.2009.035 **(IF 1.334)**
83. *Removal of some environmentally relevant heavy metals using low-cost natural sorbents,*
Raluca Maria Hlihor, **María Gavriescu**,
Environmental Engineering and Management Journal, **8**, 353-372 (2009) DOI: 10.30638/eemj.2009.051 **(IF 1.334)**

84. *Emerging processes for soil and groundwater cleanup - potential benefits and risks*,
Maria Gavrilesu,
Environmental Engineering and Management Journal, **8**, 1293-1307 (2009) **(IF 1.334)**
85. *Studies on sorption and transport processes of Cadmium in soils*,
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1315-1320 (2009) **(IF 1.334)**
86. *An investigation of the sorption of Acid Orange 7 from aqueous solution onto soil*,
Camelia Smaranda, Dumitru Bulgariu, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1391-1402 (2009) DOI:
10.30638/eemj.2009.203 **(IF 1.334)**
87. *Influence of soil particle size onto sorption of Tartrazine from aqueous solutions*,
Anca Florentina Căliman, Laura Carmen Apostol, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1081-1087 (2009) DOI:
10.30638/eemj.2009.158 **(IF 1.334)**.
88. *Study regarding the sorption of Erythrosin from aqueous solution onto soil*,
Anca Florentina Căliman, Laura Carmen Apostol, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1339-1346 (2009) DOI:
10.30638/eemj.2009.196 **(IF 1.334)**
89. *Impact of landfill leachate on soil quality in Iasi city*,
Ana-Maria Şchiopu, Brînduşa Mihaela Robu, Ion Apostol, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1155-1164 (2009) **(IF 1.334)**
90. *Bioavailability processes for contaminants in soils and their use in risk assessment*,
Raluca Maria Hlihor, Laura Carmen Apostol, Camelia Smaranda, Vasile Lucian Pavel, Florentina Anca Căliman,
Brînduşa Mihaela Robu, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8(5)**, 1199-1206 (2009) **(IF 1.334)**
91. *Behaviour of persistent pollutants and risks associated with their presence in the environment*,
Maria Gavrilesu,
Environmental Engineering and Management Journal, **8(96)**, 1517-1531 (2009) **(IF 1.334)**
92. *Study of morphology for geopolymer materials obtained from fly ash*,
Maria Harja, Marinela Bărbuţă, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **8**, 1021-1027 (2009).
- 2008**
93. *Overview of ex situ decontamination techniques for soil cleanup*,
Lucian Vasile Pavel, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **7**, 815-834 (2008) DOI: 10.30638/eemj.2008.109
94. *Biomass - an important renewable source of energy in Romania*,
Camelia Ciubota-Rosie, **Maria Gavrilesu**, Matei Macoveanu,
Environmental Engineering and Management Journal, **7**, 559-568 (2008) DOI: 10.30638/eemj.2008.079,
95. *Biomass power for energy and sustainable development*,
Maria Gavrilesu,
Environmental Engineering and Management Journal, **7**, 619-638 (2008)
96. *Strategies and practices for sustainable use of water in industrial papermaking processes*,
Maria Gavrilesu, Carmen Teodosiu, Dan Gavrilesu,
Engineering in Life Sciences, **8**, 99-124 (2008) DOI: 10.1002/elsc.200720236, **(IF 2.385)**
97. *Neural networks and genetic algorithms optimization of the photocatalytic degradation of Alcian Blue 8GX*,
Căliman F. A., Curteanu S., Betianu C., **Gavrilesu M.**, Poullos I.,
Journal of Advanced Oxidation Technologies, **11**, 316-326 (2008) **(IF 0.908)**
98. *Response surface methodology applied for Orange II photocatalytic degradation in TiO₂ aqueous suspensions*,
Betianu C., Caliman A.F., **Gavrilesu M.**, Cretescu I., Cojocaru C., Poullos I.,
Journal of Chemical Technology & Biotechnology, **83(11)**, 1454 – 1465 (2008) DOI: 10.1002/jctb.1973,
(IF 2.587)
99. *Municipal solid waste management in developing countries: a perspective on Vietnam*,
Abdelnaser Omran, **Maria Gavrilesu**,
Environmental Engineering and Management Journal, **7**, 469-478 (2008) DOI: 10.30638/eemj.2008.070

100. *Triphasic external-loop airlift reactors. Hydrodynamic and dispersion studies*,
Maria Gavrilescu, Florina Ungureanu, Radu Z. Tudose,
Environmental Engineering and Management Journal, **7**, 217-225 (2008) DOI: 10.30638/eemj.2008.036,
101. *Sorption of cationic dyes from aqueous solution onto natural clay. Equilibrium and kinetic study*,
Florentina Anca Căliman, **Maria Gavrilescu**,
Environmental Engineering and Management Journal, **7**, 301-308 (2008) DOI: 10.30638/eemj.2008.032,
102. *Migration and fate of persistent organic pollutants in the atmosphere – a modelling approach*,
Maria Gavrilescu, Camelia Bețianu,
Environmental Engineering and Management Journal, **7**, 743-762 (2008) DOI: 10.30638/eemj.2008.100
- 2007**
103. *Methods and procedures for environmental risk assessment*,
Brîndușa Mihaela Robu, Florentina Anca Căliman, Camelia Bețianu, **Maria Gavrilescu**,
Environmental Engineering and Management Journal, **6**, 573-592 (2007).
104. *Study concerning the influence of oxidizing agents on heterogeneous photocatalytic degradation of persistent organic pollutants*,
Anca Florentina Căliman, Camelia Bețianu, Brîndușa Mihaela Robu, **Maria Gavrilescu**, Ioannis Poullos,
Environmental Engineering and Management Journal, **6**, 483-489 (2007) .
105. *Solid waste in Romania: management, treatment and pollution prevention practices*,
Ana Maria Schiopu, Ion Apostol, Monica Hodoreanu, **Maria Gavrilescu**,
Environmental Engineering and Management Journal, **6**, 451-465 (2007). DOI: 10.30638/eemj.2007.074
106. *Marine micro and macro algal species as biosorbents for heavy metals*
Loredana Brinza, Matthew J. Dring, **Maria Gavrilescu**
Environmental Engineering and Management Journal, **6**, 237-251 (2007) DOI: 10.30638/eemj.2007.029
107. *Modelling and simulation of heavy metals transport in water and sediments*,
Simona Pintilie, Loredana Brinză, Camelia Bețianu, Lucian Vasile Pavel, Florina Ungureanu,
Maria Gavrilescu,
Environmental Engineering and Management Journal, **6**, 153-161 (2007).
- 2005**
108. *Fate of pesticides in the environment and its bioremediation*,
Maria Gavrilescu,
Engineering in Life Sciences, **5**, 497-526 (2005) DOI: 10.1002/elsc.200520098 (IF 2.385)
109. *Biotechnology — a sustainable alternative for chemical industry*,
Maria Gavrilescu, Yusuf Chisti,
Biotechnology Advances, **23**, 471-499 (2005) DOI: 10.1016/j.biotechadv.2005.03.004 (IF 11.452)
- 2004**
110. *Removal of heavy metals from the environment by biosorption*,
Maria Gavrilescu,
Engineering in Life Sciences, **4**, 219-232 (2004) DOI: 10.1002/elsc.200420026 (IF 2.385)
- 2000**
111. *Attached-growth process engineering in wastewater treatment*,
Maria Gavrilescu, Matei Macoveanu,
Bioprocess Engineering, **23**(1), 95-106 (2000) DOI: 10.1007/s004499900112 (IF 0.693)
112. *Stochastic modelling of axial dispersion in external-loop airlift bioreactors*,
Maria Gavrilescu, Ovidiu Muntean, Radu Z. Tudose,
Bioprocess Engineering, **23**(6), 543-549 (2000) DOI: 10.1007/s004499900112 (IF 0.693)
- 1999**
113. *Modelling mixing parameters in concentric-tube airlift bioreactors. Part I. Mixing time*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **20**(5), 423-428 (1999) DOI: 10.1007/s004490050610 (IF 0.693)
114. *Modelling mixing parameters in concentric-tube airlift bioreactors. Part II. Axial dispersion*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **20**(6), 491-497 (1999) DOI: 10.1007/s004490050620 (IF 0.693)
115. *Residence time distribution of the liquid phase in a concentric-tube airlift reactor*,
Maria Gavrilescu, Radu Z. Tudose,
Chemical Engineering and Processing, **38**, 225-238 (1999) DOI: 10.1016/S0255-2701(99)00005-7 (IF 2.286)

116. *Process engineering in biological aerobic waste-water treatment*,
Maria Gavrilescu, Matei Macoveanu,
Acta Biotechnologica, **19**(2), 111-145 (1999) DOI: 10.1002/abio.370190205 (IF 1.257)
117. *Bioprocesses Scaling up*
R.V. Roman, R. Z. Tudose, **Maria Gavrilescu**,
Revista de Chimie (Rev.Chim.), **50**(7), 491-504 (1999) (IF 1.412)
118. *Biofluids Rheology*
R.V. Roman, R. Z. Tudose, **Maria Gavrilescu**,
Revista de Chimie (Rev.Chim.), **50**(5), 366-378 (1999) (IF 1.412)

1998

119. *Hydrodynamics of non-newtonian liquids in external-loop airlift bioreactors. Part I. Study of the gas holdup*.
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **18**(1), 17-26 (1998) (IF 0.693)+++
120. *Hydrodynamics of non-newtonian liquids in external-loop airlift bioreactors. Part. II. Study of the liquid circulation velocity*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **18**(2), 83-89 (1998) DOI: 10.1007/s004490050416 (IF 0.693)
121. *Concentric-tube airlift reactors. Part I. Effects of geometry on gas holdup*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **19**(1), 37-44 (1998) DOI: 10.1007/s004490050480 (IF 0.693)
122. *Concentric-tube airlift reactors. Part II. Effects of geometry on liquid circulation*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **19**, 103-109 (1998) DOI: 10.1007/s004490050489 (IF 0.693)
123. *Concentric-tube airlift reactors. Part III. Effects of geometry on mass transfer*,
Maria Gavrilescu, Radu Z. Tudose,
Bioprocess Engineering, **19**(3), 175-178 (1998) DOI: 10.1007/s004490050502 (IF 0.693)
124. *Modelling of liquid circulation velocity in concentric-tube airlift reactors*,
Maria Gavrilescu, Radu Z. Tudose,
The Chemical Engineering Journal, **69**, 85-91 (1998) DOI: 10.1016/S1385-8947(97)00100-9 (IF 6.735)
125. *Performance of airlift bioreactors in the cultivation of some antibiotic producing microorganisms*,
Maria Gavrilescu, Rodica-Viorica Roman,
Acta Biotechnologica, **18**(3), 201-229 (1998) DOI: 10.1002/abio.370180304 (IF 1.247)
126. *Relationship between transfer phenomena and penicillin biosynthesis in large scale bioreactors*,
Rodica-Viorica Roman, **Maria Gavrilescu**, Radu Z. Tudose, Minodor Cojocaru, Vasile Capraru,
Revista de Chimie, **49**(2), 144-153 (1998). (IF 1.412)

1997

127. *Hydrodynamics in external-loop airlift bioreactors with static mixers*,
Maria Gavrilescu, Rodica-Viorica Roman, Radu Z. Tudose,
Bioprocess Engineering, **16**(2), 93-99 (1997) DOI: 10.1007/s004490050294 (IF 0.693)
128. *The specific interfacial area in external-loop airlift bioreactors*,
Maria Gavrilescu, Radu Z. Tudose
Bioprocess Engineering, **16**(3), 127-133 (1997) DOI: 10.1007/s004490050299 (IF 0.693)
129. *Gas holdup in bubble column reactors of small dimensions with gas-liquid-solid dispersions*,
Maria Gavrilescu, Radu Z. Tudose,
Revue Roumaine de Chimie, **42**(7), 551-563 (1997) (IF 0.37)
130. *Mixing studies in external-loop airlift reactors*,
Maria Gavrilescu, Radu Z. Tudose,
The Chemical Engineering Journal, **66**(1), 96-104 (1997) DOI: 10.1016/S1385-8947(96)03177-4 (IF 6.735)
131. *Influence of gas-liquid separator design on hydrodynamic and mass transfer in a concentric-tube airlift reactor*,
Maria Gavrilescu, Radu Z. Tudose,
Revue Roumaine de Chimie, **42**(9), 759-765 (1997) (IF 0.37)
132. *Triphasic systems hydrodynamics in bubble columns*
Tudose R.Z. **Gavrilescu M.**
Revista de Chimie, **48** (3), 213-231 (1997) (IF 1.412)

1996

133. *Bubble column reactors of small dimensions.I. Gas-holdup in gas/liquid dispersions*, **Maria Gavrilescu**, Radu Z. Tudose, *Hungarian Journal of Industrial Chemistry*, **24**(1), 25-34 (1996) **(IF 0.084)**
134. *Bubble column reactors of small dimensions.II. Mass transfer in gas/liquid dispersions*, **Maria Gavrilescu**, Radu Z. Tudose, *Hungarian Journal of Industrial Chemistry*, **24**(2), 81-86 (1996) **(IF 0.084)**
135. *Effects of downcomer-to-riser cross sectional area ratio on operation behaviour of external-loop airlift bioreactors*, **Maria Gavrilescu**, Radu Z. Tudose, *Bioprocess Engineering*, **15**(2), 77-85 (1996) **(IF 0.693)**
136. *Performance of industrial scale bioreactors with modified rushton turbine agitators*, Rodica-Viorica Roman, Radu Z. Tudose, **Maria Gavrilescu**, Minodor Cojocar. Stefan Luca, *Acta Biotechnologica*, **16**(1), 43-56 (1996) DOI: 10.1002/abio.370160107 **(IF 1.257)**
137. *Mixing times in an external-loop airlift bioreactor with static mixers*, **Maria Gavrilescu**, Rodica-Viorica Roman, *Acta Biotechnologica*, **16**(2-3), 145-153 (1996) DOI: 10.1002/abio.370160208 **(IF 1.257)**
138. *Application of an airlift bioreactor to the nystatin biosynthesis*, **Maria Gavrilescu**, Rodica-Viorica Roman, *Acta Biotechnologica*, **16**(4), 303-314 (1996) DOI: 10.1002/abio.370160413 **(IF 1.257)**
139. *Effects of geometry on hydrodynamics in external-loop airlift reactors*, **Maria Gavrilescu**, Radu Z. Tudose, *Chemical Engineering Communications*, **156**(1), 89-113 (1996) DOI: 10.1080/00986449708936671 **(IF 1.282)**
140. *Residence time distribution of liquid phase in an external-loop airlift bioreactor*, **Maria Gavrilescu**, Radu Z. Tudose, *Bioprocess Engineering*, **14**(2), 183 -193 (1996) **(IF 0.693)**
141. *Flow regimes in bubble column reactors*, **Maria Gavrilescu**, Rodica-Viorica Roman, *Revue Roumaine de Chimie*, **41**(9-10), 823-834 (1996) **(IF 0.37)**

1995

142. *Cultivation of a filamentous mould in an airlift bioreactor*, **Maria Gavrilescu**, Rodica-Viorica Roman, *Acta Biotechnologica*, **15**, 323-335 (1995) DOI: 10.1002/abio.370150402 **(IF 1.257)**
143. *Intensification of transfer processes in biotechnology and chemical engineering using static mixers*, **Maria Gavrilescu**, Radu Z. Tudose, *Acta Biotechnologica*, **15**(1), 3-26 (1995) DOI: 10.1002/abio.37015010 **(IF 1.257)**
144. *Study of the liquid circulation velocity in external-loop airlift bioreactors*, **Maria Gavrilescu**, Radu Z. Tudose, *Bioprocess Engineering*, **14**(1), 33-39 (1995) DOI: 10.1007/s004490050180 **(IF 0.693)**
145. *Oxygen transfer in batch culture of Bacillus licheniformis*, Rodica-Viorica Roman, **Maria Gavrilescu**, *Revue Roumaine de Chimie*, **40**(9), 879-890 (1995) **(IF 0.37)**
146. *Mass and energy balance application in the biosynthesis processes analysis*, **Maria Gavrilescu**, Rodica-Viorica Roman, Vasile Efimov, Liviu Cârligeanu, *Revista de Chimie*, **46**(7), 659-666 (1995) **(IF 1.412)**
147. *Some aspects regarding the entropy balance in biosynthesis processes*, **Maria Gavrilescu**, Rodica-Viorica Roman, Vasile Efimov, *Revista de Chimie*, **46**(8), 735-741 (1995) **(IF 1.412)**

1994

148. *Oxygen mass transfer and gas holdup in a bubble column bioreactor with biosynthesis liquids*, **Maria Gavrilescu**, Rodica-Viorica Roman, *Acta Biotechnologica*, **14**(1), 27-36 (1994) DOI: 10.1002/abio.370140104 **(IF 1.257)**

149. *Hydrodynamics of a gas-liquids vessel stirred with Rushton turbines in Newtonian and non-Newtonian systems*, Rodica-Viorica Roman, **Maria Gavrilesu**, *Hungarian Journal of Industrial Chemistry*, **22**(2), 87-93 (1994) (IF 0.084)
150. *Estimation of volumetric mass transfer coefficient in different sized mechanically stirred reactors*, Rodica-Viorica Roman, **Maria Gavrilesu**, *Hungarian Journal of Industrial Chemistry*, **22**(2), 111-116 (1994) (IF 0.084)
151. *Oxygen transfer efficiency in the biosynthesis of antibiotics in bioreactors with modified Rushton turbine agitators*, Rodica-Viorica Roman, **Maria Gavrilesu**, *Acta Biotechnologica*, **14**(2), 181-192 (1994) DOI: 10.1002/abio.370140212 (IF 1.257)
152. *The filtration of some antibiotic biosynthesis liquids*, Rodica-Viorica Roman, **Maria Gavrilesu**, *Hungarian Journal of Industrial Chemistry*, **22**(3), 161-170 (1994) (IF 0.084)
153. *Some aspects concerning the carbon dioxide mass transfer in biosynthesis liquids*, **Maria Gavrilesu**, Rodica-Viorica Roman, Vasile Efimov, Liviu Cârligeanu, *Revista de Chimie*, **45**(11), 973-978 (1994) (IF 1.257)
- 1993**
154. *The volumetric mass transfer coefficient in antibiotic biosynthesis liquids*, **Maria Gavrilesu**, Rodica-Viorica Roman, Vasile Efimov *Acta Biotechnologica*, **13**(1), 59-70 (1993) DOI: 10.1002/abio.370130114 (IF 1.257)
155. *Investigation of the bacitracin biosynthesis in an airlift bioreactor*, **Maria Gavrilesu**, Rodica-Viorica Roman *Acta Biotechnologica*, **13**(2), 161-175 (1993) DOI: 10.1002/abio.370130215 (IF 1.257)
156. *Aspects on the separation of biosynthesis liquids separation in centrifugal fields*, **Maria Gavrilesu**, Vasile Efimov, Rodica-Viorica Roman, *Revista de Chimie*, **43**(10), 643-649 (1993) (IF 1.412)
157. *Oxygen mass transfer in mechanically agitated bioreactors. I. Oxygen mass transfer in sulfite system*, Rodica-Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal *Revista de Chimie*, **44**(7), 664-667 (1993) (IF 1.412)
158. *Oxygen mass transfer in bioreactors with mechanical stirring. II. Oxygen mass transfer in non-newtonian viscous liquids*, Rodica-Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciuc, Virginia Asandului, *Revista de Chimie*, **44**(9), 817-822 (1993) (IF 1.412)
- 1992**
159. *Evaluation of power consumption for Newtonian system mixing with a various number of Rushton turbines*, Rodica-Viorica Roman, **Maria Gavrilesu**, Vasile Efimov, *Hungarian Journal of Industrial Chemistry*, **20**(2), 155-160 (1992) (IF 0.084)
160. *Rheological behaviour of some antibiotic biosynthesis liquids*, **Maria Gavrilesu**, Rodica-Viorica Roman, Vasile Efimov, *Acta Biotechnologica*, **12**(5), 383-396 (1992) DOI: 10.1002/abio.370120506 (IF 1.412)
- 1989**
161. *Study of a bioreactor with ejector and submerged jet. I. Empiric modelling of the oxygen mass-transfer process*, **Maria Gavrilesu**, R.V. Roman, A. Sauciuc, A. Pintilie, A. Pascal, I. Vornicu, G. Jalencu, M. Macoveanu, *Revista de Chimie (Rev. Chim.)*, **40**, 587-592 (1989) (IF 1.412)
162. *Optimization of oxygen mass transfer conditions in a bioreactor* **Maria Gavrilesu**, R.V. Roman, A. Sauciuc, A. Pintilie, A. Pascal, M. Macoveanu *Revista de Chimie (Rev. Chim.)*, **40**, 11, 921-922 (1989) (IF 1.412)
163. *Studies on the behaviour of defoaming agents in the biosynthesis of penicillin* **Maria Gavrilesu**, I. Miu, R.V. Roman, E. Bugiu *Revista de Chimie (Rev. Chim.)*, 1989, **40**, 388-391 (1989) (IF 1.412)
164. *Aspects regarding the rheology of liquids from antibiotic biosynthesis* **Maria Gavrilesu**, R.V. Roman, V. Asandului, A. Sauciuc *Revista de Chimie (Rev. Chim.)*, **40**, 958-961 (1989) (IF 1.412)

Journals included in data bases, peer reviewed, CNCSIS

2019

1. *Potential of plants for the bioremediation of soils contaminated with persistent pollutants*
Mariana Minuț, Mihaela Roșca, Petronela Cozma, **Maria Gavrilesco**
ECOTERRA, **16**(2), 17-28 (2019)
2. *Statistical analysis of some heavy metals toxicity on plants used in phytoremediation*
Cristina Ghinea, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță Ungureanu, Mariana Minuț, Camelia Smaranda, Mariana Diaconu, **Maria Gavrilesco**
Annals of the Academy of Romanian Scientists, Online Edition, Series on Physics and Chemistry, **4** (2), 47-62, 2019.

2017

3. *Application of Cost-Benefit Analysis for an Eco-Product Manufactured from Production Waste*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilesco**,
***International Proceedings of Chemical, Biological and Environmental Engineering*, Vol. 101 (2017), DOI: 10.7763/IPCBE. 2017. V101. 13, 91-98.**
4. *Dissipation behavior of pesticides applied in multiple treatments in apples*
Raluca-Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, Petronela Cozma, Maria Gavrilesco
***Lucrări Științifice Seria Horticultură USAMV IAȘI*, **60** (2) / 2017, 73-82 (2017)**
5. *Tools for the characterization of pesticide risk in food products. An overview*
Mihaela Roșca, Raluca-Maria Hlihor, Petronela Cozma, **Maria Gavrilesco**
***International Proceedings of Chemical, Biological and Environmental Engineering*, Vol. 101, 75-83, DOI: 10.7763/IPCBE.2017.V101.11**
6. *Biosorption potential of the main fractions separated from peat (Poiana Stampei, Romania)*
Silvia Pruteanu, Laura Bulgariu, Maria Gavrilesco
***Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering*, **63** (3), 45-56, 2017**
7. *The potential of some indigenous microorganisms and plants for the removal of heavy metals from soil*
Mihaela Rosca, Raluca-Maria Hlihor, Elena-Diana Comanita, Petronela Cozma, Isabela-Maria Simion, Maria Gavrilesco
***Lucrări Științifice Seria Horticultură*, **60** (1/2), 2017**

2016

8. *Impacts on climate change generated by polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production: A comparative approach*
Elena Diana Comăniță, Cristina Ghinea, Mihaela Roșca, Camelia Smaranda, Lidia Favier, Irina Gostin, Stefania Iordache, **Maria Gavrilesco**
***Scientific Papers. Agronomy Series*, **58**, 253-260 (2016).**
9. *Assessment of human health risk of twelve pesticides applied in double dose in an apple orchard*,
Raluca Maria Hlihor, Manuela Olga Pogăcean, Isabela Maria Simion, Petronela Cozma,
Laura Carmen Apostol, **Maria Gavrilesco**
Annals of the Academy of Romanian Scientists, **2**(2), (2016), 1-10
10. *The potential of some indigenous microorganisms and plants for the removal of heavy metals from soil*
Roșca Mihaela, Hlihor Raluca-Maria, Comăniță Elena-Diana, Cozma Petronela, Simion Isabela-Maria, Gavrilesco Maria
***Lucrări Științifice Seria Horticultură*, **60** (1/2) / 2017, USAMV Iași**

2015

11. *Assessment of environmental impacts of municipal solid waste management in Iasi, Romania*,
Cristina Ghinea, Andreea Spranceana, Diana Elena Comanita, Gabriela Constantinescu, **Maria Gavrilesco**
***Food and Environment Safety*, **14** (2), 171 – 180 (2015).**
12. *Impact of food waste on climate change*
Cristina Ghinea, **Maria Gavrilesco**
***Food and Environment Safety*, **14** (4), 340 – 344, 2015**
13. *Studies regarding the photocatalytic transformation of Erythrosine B*
Laura Carmen Apostol, Florentina Anca Caliman, **Maria Gavrilesco**
***Food and Environment Safety*, **14** (4), 375 – 384, 2015.**

2014

14. *Assessment of Phaseolus Vulgaris L. Biomass as Low-Cost Adsorbent for the Removal of Congo Red Dye from Aqueous Solutions*,
Camelia Smaranda, Elena-Diana Comăniță, Laura Carmen Apostol, **Maria Gavrilescu**,
***Agronomy Series of Scientific Research / Lucrari Stiintifice Seria Agronomie*, 57**, 139-144, 2014.
15. *Evaluation of factors affecting sorption of pentachlorophenol in soil*,
Camelia Smaranda, Dumitru Bulgariu, Teodor Măluțan, **Maria Gavrilescu**,
***Agronomy Series of Scientific Research / Lucrari Stiintifice Seria Agronomie*, 57**, 133-138, 2014.
16. *Multicriteria evaluation of municipal solid waste management scenarios: Case study Iasi, Romania*,
Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilescu**,
***Food and Environment Safety*, 13(1)**, 38-47, 2014.
17. *Sustainable use of biomass for cleaning-up aqueous effluents contaminated with heavy metals*,
Laura Bulgariu, Daniela Ionela Tudorache Fertu, **Maria Gavrilescu**,
***Annals of the Academy of Romanian Scientists, Series on Chemistry Sciences*, 1(1)**, 5-18 (2014).
18. *Evaluation of solid waste management scenarios using Analytic Hierarchy Process (AHP) Technique*,
Cristina Ghinea, Diana Elena Comăniță, Petronela Cozma, Hans Th. A. Bressers, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering*, LX(LXIV), (3-4)**, 81-89. (2014).

2013

19. *Biomass in environmental remediation – a review*,
Mariana Diaconu, Camelia Smaranda, Raluca Maria Hlihor, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering*, Tome LIX (LXIII)**, (3), 97-112 (2013).
20. *Solid waste recycling for remanufacturing and bioremediation*,
Cristina Ghinea, Isabela Maria Simion, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Iasi*, Section Chemistry and Chemical Engineering**,
Tome **59(2)**, 157, 35-48 (2013).
21. *Erythrosine B in the environment. Removal processes*,
Laura Carmen Apostol, **Maria Gavrilescu**,
***Food and Environment Safety*, 12(3)**, 253-264 (2013).

2012

22. *Use of sustainable indicators in solid waste management – a review*,
Isabela Maria Simion, Maria Emiliană Fortuna, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Jassy*, Section Chemistry and Chemical Engineering**,
58, 157, 57-71 (2012).
23. *Biogas upgrading using water scrubbing technology*,
Petronela Cozma, Walter Wukovits, Anton Friedl, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Jassy*, Section Chemistry and Chemical Engineering**,
LVIII (LXII), 58-73 (2012).
24. *Environmental comparison of solid waste management systems: a case study of the cities of Iasi, Romania and Enschede, Netherlands*,
Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, **Maria Gavrilescu**,
***Bulletin of the Polytechnic Institute of Jassy*, Section Chemistry and Chemical Engineering**,
LVIII (LXII), 105-116 (2012).

2011

25. *Indicators for sustainability in industrial systems. Case study: paper manufacturing*,
Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilescu**,
Scientific Study and Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,
12, 363 – 372 (2011).
26. *Analysis of environmental impact for industry products. case study: paper manufacturing*,
Madalina Petraru, Cristina Ghinea, Hans Bressers, **Maria Gavrilescu**,
Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering,
57, 63 – 74 (2011).

27. *Municipal solid waste management - environmental assessment from life cycle perspective*, Cristina Ghinea, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute from Iasi, Chemistry and Chemical Engineering Section, LVII (LXI)**, 87-95 (2011).
28. *Influence of pH on Cr(VI) reduction and removal by Saccharomyces cerevisiae*, Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute of Jassy, Section Chemistry and Chemical Engineering, LVII (LXI)**, 147- 153 (2011).
29. *A comparison of kinetic models applied for Cd(II) removal by S. cerevisiae*, Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute of Jassy, Section Chemistry and Chemical Engineering, LVII(LXI)**, 163 – 171 (2011).
30. *Study on the effect of ferromagnetic nanoparticles on dyes biodegradation*, Laura Carmen Apostol, Luciana Pereira, Raquel Pereira, Madalena Alves, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 57**, 21 – 28 (2011).
31. *Transition towards a sustainable economy based on industrial ecology principles: Romanian case study*, Madalina Petraru, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering Section, LVII (LXI)**, 133-145 (2011).
32. *Evaluation of the sorption process for Acid Orange 7 and Erythrosine B in soil using various kinetic models*, Camelia Smaranda, Laura Carmen Apostol, **Maria Gavrilescu**, **Bulletin of the Polytechnic Institute of Iasi, Section Chemistry and Chemical Engineering, 57**, 65-78 (2011).
- 2010
33. *Environmental biotechnology: achievements, opportunities and challenges*, **Maria Gavrilescu**, **Dynamic Biochemistry, Process Biotechnology and Molecular Biology, 3**, 1-36 (2010).
34. *Thermodynamic study of Cd(II) sorption on soil*, Hlihor Raluca-Maria, Cozma Petronela, Ghinea Cristina, Pavel Vasile Lucian, Robu Brindusa Mihaela, **Maria Gavrilescu**, **Agronomy Series of Scientific Research / Lucrari Stiintifice Seria Agronomie, 53** (2010), <http://www.revagrois.ro/data/manuals/BJB09x9wdh.pdf>.
35. *Equilibrium study of Cd(II) sorption from aqueous solution onto soil: Effect of temperature*, Hlihor Raluca Maria, Pavel Vasile Lucian, Bulgariu Dumitru, **Maria Gavrilescu**, **Buletinul Institutului Politehnic Iasi** (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 37-46 (2010).
36. *Pneumatic (bio) reactors applied in environmental protection*, Cozma Petronela, **Maria Gavrilescu**, **Buletinul Institutului Politehnic Iasi**, (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 57-76 (2010).
37. *Overview on the economic assessment of pollution prevention/cleaner production practices*, Petraru Mădălina, **Maria Gavrilescu**, **Buletinul Institutului Politehnic Iasi** (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 77-93 (2010).
38. *Sorption and desorption characteristics of Acid Orange 7 on soil*, Smaranda Camelia, **Maria Gavrilescu**, Bulgariu Dumitru, **Buletinul Institutului Politehnic Iasi** (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 183-191 (2010).
39. *Models for sustainable waste management*, Cristina Ghinea, **Maria Gavrilescu**, **Buletinul Institutului Politehnic Iasi** (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 21-36 (2010).
40. *Influence of some parameters on sorption of Erythrosine B onto soil*, Apostol Laura Carmen, Căliman Florentina Anca, **Maria Gavrilescu**, **Buletinul Institutului Politehnic Iasi** (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, **LVI(LX)(2)**, 47-56 (2010).

41. *Comparative studies concerning the behaviour of organic pollutants in Iasi area soil*, Smaranda Camelia, Apostol Laura Carmen, Petraru Madalina, Caliman Florentina Anca, **Maria Gavrilescu**, ***Agronomy Series of Scientific Research / Lucrari Stiintifice Seria Agronomie*, 53**, (2010), <http://www.revagrois.ro/data/manuals/BJB09x9wdh.pdf>
- 2009**
42. *Overview on Chromium occurrence in the environment and its remediation*, Raluca Maria Hlihor, Laura Carmen Apostol, Vasile Lucian Pavel, Camelia Smaranda, Brîndușa Mihaela Robu, Florentina Anca Căliman, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering, **Tomul LV (LIX)**, 19 - 35 (2009).
43. *Overview on remediation of uranium contaminated environment*, **Maria Gavrilescu**, *Lab International (LI), PanGlobal Media, September 2009*, <http://www.labint-online.com/featured-articles/overview-on-remediation-of-uranium-contaminated-environments/index.html>
44. *Biosorption of heavy metals from the environment using yeasts as biosorbents*, Raluca Maria Hlihor, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering, **55**, 21 – 37 (2009).
45. *Role of microorganisms in organic compounds degradation*, Laura Carmen Apostol, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic Iasi (Bulletin of the Polytechnic Institute of Iasi)***, (***Bulletin of the Polytechnic Institute of Iasi***), **55**, 49 – 64 (2009).
46. *Life cycle impact assessment of pesticides: current issues and perspectives*, Laura Carmen Apostol, Raluca Maria Hlihor, Camelia Smaranda, Vasile Lucian Pavel, Brîndușa Mihaela Robu, Florentina Anca Căliman, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering, **55**, 67-83 (2009).
47. *Study of chromium sorption from aqueous solution onto soil*, Lucian Vasile Pavel, Dumitru Bulgariu, Laura Bulgariu, **Maria Gavrilescu**, ***Agronomy Series of Scientific Research / Lucrari Stiintifice Seria Agronomie*, 52**, (2009) <http://www.revagrois.ro/data/manuals/c7KhsUwi9J.pdf>.
- 2008**
48. *Waste management and pollution prevention I. Waste electrical and electronic equipment*, Ana-Maria Șchiopu, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering, **LIV (LVIII)**, Fasc.2, 21 – 35 (2008).
49. *Chlorophenols degradation – an overview*, Camelia Smaranda, Laura Carmen Apostol, Florentina Anca Căliman, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering Section, **LIV (LVIII)**, 37 – 48 (2008).
50. *Biophysico-chemical processes of heavy metals in soil environments*, Vasile Lucian Pavel, Raluca Maria Hlihor, Florentina Anca Căliman, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering, **LIV (LVIII)**, Fasc.4, 75 – 87 (2008).
51. *Analysis of hydrodynamics and mixing behaviour in external-loop airlift reactors*, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Chemistry and Chemical Engineering Section, **LIV (LVIII)**, 17-38 (2008).
- 2007**
52. *Electronic and electric waste collection – a solved problem in Iasi City*, Ana-Maria Șchiopu, **Maria Gavrilescu**, ***Calitatea-Acces la Succes***, 12, 41-45 (2007).
53. *Eco-design of processes, products and services in relation with the components of environmental management, in the context of sustainable development*, Matei Macoveanu, **Maria Gavrilescu**, ***Revista de Politica Stiintei si Scientometrie*, V**, CNCSIS, Special issue (2007).

2006

54. *Persistent organic pollutants in environment: Inventory procedures and management in the context of the Stockholm Convention*,
Camelia Betianu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 5**, 1011-1028 (2006).
55. *Implementing the European legislation concerning dangerous chemicals and goods. The material safety data sheet*,
Diana-Maria Ilie, **Maria Gavrilesu**
***Environmental Engineering and Management Journal*, 5**, 847-862 (2006).
56. *Investigation of cost and energy demands in ternary distillation systems using rate-based approach*,
Oana-Marlena Penciu, Ivo Mueller, Eugeny Kenig, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 5**, 383-390 (2006).
57. *Environmental behaviour and assessment of persistent organic pollutants*,
Camelia Betianu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 5**, 213-241 (2006).
58. *Overview of in situ remediation technologies for sites and groundwater*
Maria Gavrilesu,
***Environmental Engineering and Management Journal*, 5**, 79-114 (2006).
59. *Identification and analysis of strategies and technologies for pollution prevention and cleaner production, as instruments for sustainable development in production and services systems*,
Maria Gavrilesu,
Revista de Politica Stiintei si Scientometrie, IV, CNCSIS, Special issue(2006).

2005

60. *Ability of different algal species to take up heavy metals from wastewater: A review*,
Loredana Branza, Matthew Dring, **Maria Gavrilesu**,
***The Phycologist*, 68**, 30-31 (2005).
61. *Biosorption of Cu²⁺ ions from aqueous solution by Enteromorpha sp.*,
Loredana Brinza, Matthew Dring, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 4**, 41-50 (2005).
62. *Ecological footprint – an instrument of sustainable development*,
Diana Maria Ilie, Nicolae Peiu, **Maria Gavrilesu**,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering Tom, Fasc. 1-2 (2005).

2004

63. *Cleaner production as a tool for sustainable development*,
Maria Gavrilesu,
***Environmental Engineering and Management Journal*, 3**, 45-70 (2004).
64. *Modelling and simulation of three phase bioreactors applied to the depollution of gaseous streams containing volatile organic compounds – A comparison between fixed bed and fluidized bed reactors*,
Oana Penciu Florina Ungureanu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 3(2)**, 177-197 (2004).
65. *Biodegradation - Innovative technology for treating gaseous fluxes containing VOCs*,
Oana Penciu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 3(4)**, 737-754 (2004).
66. *Wastewater planning and management in small communities*,
Camelia Bețianu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 3(4)**, 845-860 (2004).
67. *Modeling and simulation of three-phase systems with fixed bed applied for the treatment of gaseous effluents*,
Lucian Vasile Pavel, Oana Marlena Penciu, **Maria Gavrilesu**, Florina Ungureanu
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom, Fasc. 3-4, Chemistry and Chemical Engineering, 115-128 (2004).
68. *Studies of various wastewater nitrification bioreactor types based on modelling and simulation*,
Diana Lupășteanu, Florina Ungureanu, **Maria Gavrilesu**,
***Environmental Engineering and Management Journal*, 3(2)**, 101-128 (2004).

69. *Pollution prevention in large volume organic chemical industry*, Catalin Musat, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom, Fasc. 1-2, Chemistry and Chemical Engineering, (2004).
70. *Overview on integrated pollution prevention and control for the tanning of hides and skins sector*, Oana Maria Timofte, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom, Fasc. 1-2, Chemistry and Chemical Engineering, (2004).

2003

71. *Major accidents involving substances dangerous for the environment in the context of Council Directive 96/82/EC*, **Maria Gavrilescu**, ***Environmental Engineering and Management Journal***, 2(1), 29-46 (2003).
72. *Survey on the treatment of gaseous streams containing volatile organic compounds*, Oana Penciu, **Maria Gavrilescu**, ***Environmental Engineering and Management Journal***, 2(2), 77-160 (2003).
73. *pH Effect on the Biosorption of Cu²⁺ from aqueous solution by Saccharomyces cerevisiae*, Loredana Brînza, **Maria Gavrilescu**, ***Environmental Engineering and Management Journal***, 2(3), 243-254 (2003).
74. *Risk assessment for a Shipyard from Romanian Black Sea Coast*, Brindusa Robu, **Maria Gavrilescu**, Matei Macoveanu, ***Environmental Engineering and Management Journal***, 2(4), 303-316 (2003).
75. *Studies on the depollution of gaseous streams containing volatile organic compounds*, Oana Penciu, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom XLIX (LIII), Fasc. 5, Chemistry and Chemical Engineering, 31-37 (2003).
76. *Studies of heavy metal recovery by bisorption*, Loredana Brinza, **Maria Gavrilescu**, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom XLIXVI (LIII), Fasc. 5, Chemistry and Chemical Engineering, 250-256 (2003).
77. *Modelling and simulation of three-phase bioreactors applied to the depollution of gaseous streams containing volatile organic compounds*, Oana Penciu, **Maria Gavrilescu**, Florina Ungureanu, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom XLIX (LIII), Fasc. 1-2, Chemistry and Chemical Engineering, 89-107 (2003).

2002

78. *Engineering concerns in anaerobic waste - water treatment*, **Maria Gavrilescu**, ***Clean Technology and Environmental Policy***, 3(4), 346-362 (2002).
79. *Environmental Engineering and Management Journal (EEMJ) – Beginning and Future (Editorial)*, Matei Macoveanu, **Maria Gavrilescu**, ***Environmental Engineering and Management Journal***, 1(1), 1-2 (2002).
80. *Risk assessment and management – tools for sustainable development*, **Maria Gavrilescu**, ***Environmental Engineering and Management Journal***, 1(1), 3-20 (2002).
81. *Risk management: land-use planning under European approach*, **Maria Gavrilescu**, ***Environmental Engineering and Management***, 1(2), 231-241 (2002).
82. *Modelling and simulation of a three phase fluidized system applied to attached-growth nitrification of wastewater*, **Maria Gavrilescu**, Florina Ungureanu, Brindusa Robu, ***Environmental Engineering and Management Journal***, 1(4), 517-532 (2002).
83. *Simulation of a biofilm reactor with suspended particles*, **Maria Gavrilescu**, Florina Ungureanu, Igor Cretescu, ***Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi)***, Tom XLVIII (LII), Fasc. 1-2, Chemistry and Chemical Engineering, 89-101 (2002).

84. *Modelling and simulation of an activated sludge bioreactor*,
Maria Gavrilescu, Florina Ungureanu,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom XLVIII (LII), Fasc. 3-4, Chemistry and Chemical Engineering, 89-100 (2002).
85. *Models for the management control of projects*,
Carmen Catalina Ioan, **Maria Gavrilescu**,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom XLVIII (LII), Fasc. 5B, Electrotechnics, Energetics, Electronics, 355-360 (2002).
86. *Team-working models for projects development, control and management*,
Carmen Catalina Ioan, **Maria Gavrilescu**,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom XLVIII (LII), Fasc. 5B, Electrotechnics, Energetics, Electronics, 361-364 (2002).
- 2001
87. *Gas hold-up and liquid velocity in a triphasic external-loop airlift reactor*,
Maria Gavrilescu, Florina Ungureanu,
Studia Universitatis Babeş-Bolyai, Chemia, XLVI, 1-2 (2001).
- 1999
88. *Hydrodynamic Regimes in the Agitated Viscous Systems*,
R.V. Roman, **Maria Gavrilescu**,
Roumanian Biotechnology Letters, 4(5), 409-417 (1999).
89. *Physical unit operations in wastewater engineering*,
Maria Gavrilescu, Matei Macoveanu,
Roumanian Chemical Quarterly Reviews, 7(3), 223-237 (1999).
90. *Oxygen mass transfer in external-loop airlift reactors with water-air dispersions*,
Maria Gavrilescu, Rodiva-Viorica Roman,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom XLV (IL), Fasc. 1-2, Chemistry and Chemical Engineering, 85-93 (1999).
91. *Oxygen mass transfer in external-loop airlift reactors with antibiotic fermentation broths*,
Maria Gavrilescu, Rodiva-Viorica Roman,
Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi), Tom XLV (IL), Fasc. 3-4, Chemistry and Chemical Engineering, 93-103 (1999).
- 1998
92. *Statistical optimization of medium components for improved synthesis of Cephalosporin C by Cephalosporium acremonium*,
Rodica-Viorica Roman, Rodica Gologan, **Maria Gavrilescu**,
Roumanian Biotechnology Letters, 3(5), 35-46 (1998).
- 1997
93. *Mixing in airlift reactors*,
Maria Gavrilescu, Radu Z. Tudose,
Roumanian Chemical Quarterly Reviews, 5(1), 53-66 (1997).
- 1995
94. *Transfer Phenomena in Air-Lift Reactors.III. Heat Transfer Modelling*,
Maria Gavrilescu, Radu Z. Tudose,
Memoriile Secțiilor Stiințifice ale Academiei Române, Tom XVIII, SIV, 353-372 (1995).
- 1993
95. *Transfer Phenomena in Air-Lift Reactors.III. Mass Transfer Modelling*,
Maria Gavrilescu, Radu Z. Tudose,
Memoriile Secțiilor Stiințifice ale Academiei Române, Tom XVI, SIV, 1, 173-190 (1993).
- 1992
96. *Oxygen mass transfer in airlift bioreactor using static mixers*,
Maria Gavrilescu, Rodica-Viorica Roman, Alexandru Sauciuc,
Biotechnology Biotechnological Equipment, 6(2), 60-64 (1992).
97. *Transfer Phenomena in Air-Lift Reactors.III. Flow Modelling*,
Maria Gavrilescu, Radu Z. Tudose,
Memoriile Secțiilor Stiințifice ale Academiei Române, Tom XV, SIV, (1), 195-218 (1992).
- 1984
98. *Études sur la sélectivité des catalyseurs polifonctionnels dans le processus de disproportionation du toluene*.
Spiridon Oprea, Emil Dumitriu, **Maria Strugariu**, Azzouz Abdelkrim
Buletinul Institutului Politehnic Iasi (Bulletin of the Polytechnic Institute of Iasi), Chemistry and Chemical Engineering, XXX(XXXIV), Fasc.1-4, 83-88 (1984).

Papers published in Conference and Symposia Proceedings

ISI Proceedings

2018

1. *Life Cycle Assessment applied to circular designed construction materials*
Sara Zanni, Isabela Maria Simion, **Maria Gavrilescu**, Alessandra Bonoli
25th CIRP Life Cycle Engineering (LCE) Conference
Edited by: Laurent A., Leclerc A., Niero M., Dong Y., Olsen S.I., Owsianiak M., Bey N., Ryberg M., Hauschild M.Z., Book Series: Procedia CIRP, Vol. 69, pp. 154-159, (2018) DOI: 10.1016/j.procir.2017.11.040
WOS:000435141900027

2017

2. *Life Cycle Assessment of Paper Manufacturing: Environmental and Human Health Impacts*,
Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, Petronela Cozma, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilescu**,
E-Health and Bioengineering Conference (EHB), ISBN: 978-1-5386-0358-1, pp. 313-316, 2017, DOI: 10.1109/EHB.2017.7995424
3. *Overview of human health hazards posed by pesticides in plant products*,
Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu,
E-Health and Bioengineering Conference (EHB), ISBN: 978-1-5386-0358-1, DOI: 10.1109/EHB.2017.7995419
4. *Application of Cost-Benefit Analysis for an Eco-Product Manufactured from Production Waste*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilescu**,
International Proceedings of Chemical, Biological and Environmental Engineering, 101, 91-98 (2017), DOI: 10.7763/IPCBEE.

2015

5. *Environmental Impacts of Polyvinyl Chloride (PVC) Production Process*
Elena-Diana Comăniță, Cristina Ghinea, Mihaela Roșca, Isabela Maria Simion, Madalina Petraru, **Maria Gavrilescu**
Book Group Author(s): IEEE
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB
2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)
6. *Potential of Biosorption and Bioaccumulation Processes for Heavy Metal Removal in Bioreactors*
Mihaela Rosca, Raluca-Maria Hlihor, Petronela Cozma, Elena - Diana Comăniță, Isabela Maria Simion, **Maria Gavrilescu**
Book Group Author(s): IEEE
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB
2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)
7. *Evaluation of Pentachlorophenol Leaching Potential in Natural Soils*
Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculet, Cristina Ghinea, **Maria Gavrilescu**
Book Group Author(s): IEEE
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB
2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)
8. *Efficient removal of Pb(II) ions from accidental polluted waters by adsorption onto thermal activated lignin*
Gabriela Nacu, Lăcrămioara Negrilă, Mihaela Roșca, Camelia Smaranda, Laura Bulgariu, **Maria Gavrilescu**
Book Group Author(s): IEEE
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB
2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)

9. The ability of *Arthrobacter viscosus* in the removal of Pb(II) from aqueous solutions, **Raluca Maria Hlihor**, Hugo Figueiredo, Mihaela Rosca, Teresa Tavares, **Maria Gavrilescu**, *Proceedings of the IWA 8th Eastern European Young Water Professionals Conference, Gdansk, Poland*, 12-14 May, 2016, pp. 631-638, 2016.
 10. *Human health risk assessment of pesticide residues in field grown yellow peppers*, **Raluca Maria Hlihor**, Manuela Olga Pogacean, Brindusa Mihaela Robu Sluser, **Maria Gavrilescu**, *International Proceedings of Chemical, Biological & Environmental Engineering, Environmental Science and Technology VII, 94*, 32-37, 2016, DOI: 10.7763/IPCBE. 2016. V94. 5
- 2010**
11. *Agro Waste Used as Natural Sorbents for Acid Red 51 Uptakes*
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilescu**
Proceedings of The 3rd International Conference on Advanced Materials and Systems ICAMS 2010, ISSN: 2068-0783, pp. 351-356, 2010.
 12. *Biosorption of cadmium (II) ions from simulated wastewaters by dried yeast biomass*
Raluca Maria Hlihor, Mariana Diaconu, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilescu**
Proceedings of The 3rd International Conference on Advanced Materials and Systems ICAMS 2010, ISSN: 2068-0783, pp. 387-392, 2010.
- 2008**
13. *Application of academic research into production – Case study: Transfer of Research to Industrial Waste Water Recycling Technology*
Luminița Lupu, Carmen Teodosiu, **Maria Gavrilescu**
Proceedings of the 5th International Seminar on the Quality Management in Higher Education, pp. 241-246, 2008.
- 2007**
14. *Rate-based design of integrated distillation sequences*
I. Mueller, O.- M. Penciu, E. Y. Kenig, **Maria Gavrilescu**
17th European Symposium on Computer Aided Process Engineering – ESCAPE17
V. Plesu and P.S. Agachi (Editors), pp. 1053-1058
2007 Elsevier B.V.
- 2005**
15. *Proactive environmental strategies through cleaner production*
Maria Gavrilescu
9th International Conference on Environmental Science and Technology, September 01-03, 2005
Rhodes Isl, GREECE, in: Proceeding of the 9th International Conference on Environmental Science and Technology Vol. B. Poster Presentations Book Series: *Proceedings of the International Conference on Environmental Science and Technology*, pp. B243-B248, 2005.
- 2003**
16. *Non-conventional curriculum design for the formation of the chemical engineer*
Matei Macoveanu, Carmen Teodosiu, **Maria Gavrilescu**, Valentin I.Popa
International Conference Management of Technological Changes, Chania, Grecia, August (2003), ISBN 960-8475-03-1

National and International Conferences (peer reviewed)

- 2010**
1. *The environmental behavior of pentachlorophenol in Iasi area soil*
Smaranda Camelia, Puițel Adrian, Măluțan Theodor, **Maria Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 246-251.
 2. *Bean husk used for Erythrosine B removal*
Laura Carmen Apostol, **Maria Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 218-213
 3. *Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous cadmium(II) ions by *Saccharomyces cerevisiae**
Raluca Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 232-238.
 4. *Airlift bioreactors for pulp and paper effluents treatment and management*
Petronela Cozma, **Maria Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 226-231.

5. *Estimating the environmental benefits of pollution prevention practices*
Mădălina Petraru, **Maria Gavrilesu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 220-225
 6. *Prognostic tools for assessment of alternative waste management scenarios*
Cristina Ghinea, **Maria Gavrilesu**
The 14th International Symposium on Cellulose Chemistry and Technology, Iași, 2010, ISBN 978-973-621-306-9, pp. 214-219.
- 2009**
7. *Landfilling Impact Assessment Induced by Leachate Contaminant Loadings and Management Options*, Ana-Maria Șchiopu, Brîndușa Mihaela Robu, Abdelnaser Omran, **Maria Gavrilesu**
1st CONVEESH, Proceedings of the International Conference on Engineering, Environment, Economic, Safety & Health, 26 – 27 October 2009, Manado, Indonesia (CD)
 8. *Millennium development goals ensuring environmental sustainability: country level*
Abdelnaser Omran, **Maria Gavrilesu**
International Conference on Communication and Environment, Transformation for a Sustainable Tomorrow, Penang, Malaesia, 9 – 11 December 2009 (CD)
www.usm.my/comn/icce09
 9. *Behaviour of persistent pollutants and risks associated with their presence in the environment*, **Gavrilesu M.**, Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.,
Exhibition of The Romanian Research Realization – Research Salon – 2009, October 28 – 31, 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
 10. *Potential benefits and threats of emerging technologies for soil and groundwater cleanup*, **Gavrilesu M.**, Căliman F.A., Robu B.M., Smaranda Camelia, Pave V.L.
A XIII-a Conferință Internațională de Inventică „Cercetări și Tehnologii Inovative Performante”, 4-6 June 2009, Iași, România, pp. 537-555, Editura Performantica, Iași, ISBN 978-973-730-610-4
- 2008**
11. *Solid Waste Management in Romania*
Ana-Maria Schiopu, **Maria Gavrilesu**, Abdelnaser Omran
Proceedings of the 2nd International Conference on Built Environment in Developing Countries "Sustainable Built Environment: Bridging Theory and Practice", 3-4 December 2008, University Sains Malaysia, Penang, pp. 982-1000.
 12. *Management of Waste Electric and Electronic Equipment*
Ana-Maria Schiopu, **Maria Gavrilesu**
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 139-145.
 13. *Sorption Studies of Some Heavy Metals (CrVI and CdII) on Natural Soil*
Lucian Vasile Pavel, Raluca Maria Hlihor, Camelia Smaranda, Florentina Anca Căliman,
Maria Gavrilesu
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 249-254.
 14. *Study of Pentachlorophenol Sorption on a Natural Clay as Sorbent*
Laura Carmen Apostol, Camelia Smaranda, Florentina Anca Căliman, Igor Crețescu,
Maria Gavrilesu
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 255-260.
 15. *Study concerning the sorption of textile azo dye Orange II on soil particles*
Camelia Smaranda, Laura Carmen Apostol, Lucian Vasile Pavel, Florentina Anca Căliman, **Maria Gavrilesu**
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 461-466.
 16. *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*
Florentina Anca Caliman, **Laura Carmen Apostol**, Raluca Maria Hlihor, **Maria Gavrilesu**
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 261-265.

17. *Process Integration for Rationalization of Water Networks*,
Oana Marlina Penciu, **Maria Gavrilesu**
Innovative Materials and Processes, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 51-52.
18. *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment*
Maria Gavrilesu, Brindusa Robu, Florentina Anca Căliman, Camelia Bețianu, Lucian Vasile Pavel
International Jubiliar Conference on Inventing – INVENTICA 2008, Edition XII, pp.689-692
- 2007**
19. *Partition and sorption of heavy metals to soil*
Camelia Bețianu, L. Brinza, Lucian Vasile Pavel, **Maria Gavrilesu**
Annals of the University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad” Iași, **Lucrări Științifice** – vol. 50, **seria Agronomie**, ISSN 1454-7414, Proceedings of the 50th International Conference: Romanian Agriculture în EU, Opportunities and Perspectives, (CD version), Iași, Romania
20. *Simulation of transport and behaviour of some persistent organic pollutants in soil*,
Camelia Bețianu, Roxana Mai, Florina Ungureanu, **Maria Gavrilesu**
Annals of the University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad” Iași, **Lucrări Științifice** – vol. 50, **seria Agronomie**, ISSN 1454-7414, Proceedings of the 50th International Conference: Romanian Agriculture în EU, Opportunities and Perspectives, (CD version), Iași, Romania.
- 2001**
21. *Formation and Education of the Chemical Engineer in the View of Sustainable Development (in Romanian)*
Maria Gavrilesu, Carmen Catalina Ioan, Matei Macoveanu
"Omul si Mediul (Human and Environment)", *Academic Days* Simposium, May 24-25, 2001, Timisoara Romania, Edited by Politehnica University, Timisoara, 2001, ISBN 973-8247-31-4, pags. 187-192.
22. *Globalization and Responsible Integration. Arguments and Traps (in Romanian).*
Carmen Catalina Ioan, **Maria Gavrilesu**, Matei Macoveanu
"A treia conferinta internationala de sisteme electromecanice si energetice. Chisinau (The Third Conference on Electromechanical and Energetic Systems), 4-6 octombrie 2001", vol. II, Edited by Moldavian Technical University, Kishinev, 2001, ISBN 9975-9638-7-0, pages 205-208.
23. *Energetic Resursources in Economy and Environment. An Integrated Approach of Attitudes.*
Carmen Catalina Ioan, **Maria Gavrilesu**, Matei Macoveanu
"A treia conferinta internationala de sisteme electromecanice si energetice. Chisinau (The Third Conference on Electromechanical and Energetic Systems), 4-6 octombrie 2001", vol. II, Moldavian Technical University, Kishinev, 2001, ISBN 9975-9638-7-0, pags. 209-212.
- 2000**
24. *Modelling and Simulation of a Fixed Biofilm Reactor with Suspended Particles*
Maria Gavrilesu, Florina Ungureanu, Matei Macoveanu, Dana Brisiuc
"SICHEM 2000, International Chemistry Show. October 3-6, 2000", Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 212-229.
25. *Simulation of the Microbial Population Behaviour in an Activated Sludge*
Florina Ungureanu, **Maria Gavrilesu**,
"SICHEM 2000, International Chemistry Show. October 3-6, 2000", Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 368-380.
26. *Activated Sludge Bioreactor Modelling and Simulation*
Maria Gavrilesu, Florina Ungureanu, Matei Macoveanu, Ioana Gorgos
"SICHEM 2000, International Chemistry Show. October 3-6, 2000", Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 197-211.
- 1998**
27. *Modelling mixing parameters in concentric-tube airlift reactors*
Maria Gavrilesu, Radu Z. Tudose
"International Chemistry Show", SICHEM'98, 20-23 octombrie 1998, "Chemical Engineering Series", SICHr, ISBN 973 - 9390 - 36 - 6, p. 340-349
28. *Heat Transfer in Bioprocesses (in Romanian).*
Maria Gavrilesu, R.V. Roman
In: **"Noutati in microbiologie si biotehnologie (Advances in Microbiology and Biotechnology)** Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags.349-360

29. *Bioreactors with immobilized microorganisms for wastewater biological treatment (in Romanian)*.
Maria Gavrilesu, M. Macoveanu
In: "**Noutati in microbiologie si biotehnologie (Advances in Microbiology and Biotechnology)**" Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags. 369-376
30. *Pneumatic Bioreactors in Industrial Bioprocesses and Environmental Protection (in Romanian)*.
Maria Gavrilesu, M. Macoveanu
In: "**Noutati in microbiologie si biotehnologie (Advances in Microbiology and Biotechnology)**" Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags.377-387.

1988

31. *Unconventional Bioreactors for Antibiotics Biosynthesis*.
R.V. Roman, **Maria Gavrilesu**, A. Sauciuc, A. Pintilie, A. Pascal, G. Neacsu
In: "**175 years of Technical Education in Romanian Language**" Iasi, November 10-12, 1988, Edited by Politehnic Institute of Iasi, vol. X, Sect.XXXI, 1988, pags. 203-208.
32. *Mass Transfer and Gas-Liquid Dispersion Characteristics in an External-Loop-Recycling Airlift Bioreactor (in Romanian)*.
R.V. Roman, **Maria Gavrilesu**, A. Sauciuc, V. Asandului, A. Pintilie, A. Pascal.
Microbiologie industriala si biotehnologie (Industrial Microbiology and Biotechnology), Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 905-913.
33. Oxygen Mass Transfer in a Deep Jet Bioreactor with Injector (in Romanian).
Maria Gavrilesu, R.V. Roman, A. Sauciuc, A. Pintilie, A. Pascal, I. Vornicu, G. Jalencu **Microbiologie industriala si biotehnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 915-926.
34. *Study of the Influence of Some Liquid Properties on Oxygen Dissolving Capacity (in Romanian)*.
Maria Gavrilesu, R.V. Roman, A. Sauciuc, V. Asandului
Microbiologie industriala si biotehnologie, (Industrial Microbiology and Biotechnology), Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 927-937.

1986

35. *Bacitracin Biosynthesis in an External-Loop-Recycling (in Romanian)*
Maria Gavrilesu, R.V. Roman, A. Sauciuc, E. Iluc, G. Neacsu, A. Dorobat, M. Comanescu, L. Bulgaru, A. Mustea
Microbiologie industriala si biotehnologie (Industrial Microbiology and Biotechnology), Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, **1986**, pags. 487-495.
36. *Effects of Static Mixers on Mass Transfer in an External-Loop-Recycling Bioreactor (in Romanian)*.
M. Ionescu, R.V. Roman, **Maria Gavrilesu**, A. Sauciuc, S. Matache, C. Poncu, A. Pintilie. **Microbiologie industriala si biotehnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, **1986**, pags. 851-860.
37. *Recovery of Biological Reaction Heat using Heat Pumps (in Romanian)*.
A. Sauciuc, R.V. Roman, **Maria Gavrilesu**
Microbiologie industriala si biotehnologie (Industrial Microbiology and Biotechnology), Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1986, pags. 845-849.

Conferences and Keynote lectures

2019

1. *Earth resources and the environment - past, present and perspectives*
Maria Gavrilesu, Alexandru Ozunu, Dan-Alexandru Gavrilesu
International Symposium "Environment and Progress", Babes-Bolyai University Cluj-Napoca, Faculty of Environmental Science and Engineering, November 15, 2019.
Invited plenary lecture
2. *The ecological footprint of the industrial system and sustainable industrial production*
Maria Gavrilesu
Conference of the Doctoral School, "Gheorghe Asachi" Technical University of Iasi, May 22-23, 2019
Invited plenary lecture

2017

3. *Extending production waste life cycle and energy saving by eco-innovation and eco-design – the case of packaging manufacturing*
Maria Gavrilesu, Teofil Câmpean, Dan-Alexandru Gavrilesu
Conference on Sustainable Energy, CSE 2017, October 19 – 21, Brasov, Romania,
Invited Keynote Lecture

2016

4. *Plastics in the environment: a cradle-to-grave approach*
Maria Gavrilescu,
11th International Conference on "Environmental Legislation, Safety Engineering and Disaster Management" ELSEDIMIA
26 - 28 May 2016, Cluj-Napoca, Romania.
Invited plenary lecture

2015

5. *Food waste to materials and energy: current trends, global perspectives and impacts*
Maria Gavrilescu
Environment and Progress Conference, 29-30 octombrie 2015, Cluj-Napoca, Romania
Invited plenary lecture

2014

6. *Ecological and Human Risk Assessment: an Integrated Approach*
Maria Gavrilescu
Invited lecture, ELSEDIMIA International Conference – 18 – 19 September 2014, Cluj-Napoca, Romania
Invited plenary lecture
7. *Biomass potential for sustainable environment, biorefinery products and energy*
Maria Gavrilescu
Invited lecture, Conference for Sustainable Energy-CSE, *Renewables in the built environment and buildings' sustainability*, 06 – 08 November 2014, Brasov, Romania
Invited plenary lecture

2013

8. *Survey on the evolution of sustainability in industrial production*
Maria Gavrilescu
9th National Symposium with International Participation "Environment and Progress"
25 October 2013, University Babes Bolyai of Cluj Napoca, Romania
Invited plenary lecture
9. *Sustainable Industrial Production and Waste Minimization*
Maria Gavrilescu
ESEIA Summer School, Sustainable Smart Metropolitan Regions
15 – 28 July 2013, Transilvania University of Brasov, Romania
Invited lecturer
10. *Education, research, and innovation for environmental sustainable development*
Maria Gavrilescu
Workshop of the Doctoral School, University dell'Insubria, Varese, Italy, Faculty of Engineering, May 31, 2013, Varese, Italy
Invited lecturer
11. *Romanian National Romanian Strategy for Sustainable Development in the Perspective of Horizon 2020*
Workshop of the Doctoral School, University dell'Insubria, Varese, Italy, Faculty of Engineering, May, 2013, Varese, Italy
Invited lecturer
12. *Environmental Sustainability through Pollution Prevention and Environmental Protection*
Workshop of the Doctoral School, University Alma Mater Studiorum, Bologna, Italy, Faculty of Engineering, June 7, 2013, Bologna, Italy
Invited lecturer

2012

13. *Alternatives for Sustainable Industrial Production*
Maria Gavrilescu
Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop, September19-21, 2012, Iasi, Romania
Invited lecturer
14. *Inter-reggio: concept of restoration projects of local streams*
Maria Gavrilescu
Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop, September19-21, 2012, Iasi, Romania
Invited lecturer

15. *About Fate and Behaviour of Some Persistent Organic Pollutants in Romanian Soils: A Condition in Bioremediation*
Maria Gavrilesu
Workshop of the Doctoral School, University Federico II, Naples, Italy, Faculty of Engineering, May 30, 2012, Naples, Italy
Invited lecturer
16. *Chemical and Environmental Engineering for Sustainable Development*
Maria Gavrilesu
Workshop, Technical University Vienna, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, June 26, 2012
Invited lecturer
- 2011**
17. *Biosorption-an alternative for contaminant removal from the environment*
Maria Gavrilesu
The 19th International Conference on Environmental Indicators, September 11-14, 2011, Technion, Haifa, Israel
Invited plenary lecture
18. *Biosorption and bioaccumulation in environmental remediation*
Maria Gavrilesu
Workshop of the Doctoral School, University Alma Mater Studiorum, Bologna, Italy, Faculty of Engineering, May 2, 2011, Bologna, Italy
Invited lecturer
19. *Biosorption and bioaccumulation of persistent pollutants on dead and living biomass*
Maria Gavrilesu
6th International Conference on Environmental Engineering and Management ICEEM 06, September 1 – 4, 2011, Balatonalmádi, Hungary
Invited plenary lecture
20. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesu
Workshop of the Doctoral School, University Federico II, Naples, Italy, Faculty of Engineering, May, 2011, Naples, Italy
Invited lecturer
- 2010**
21. *Romania on its way toward sustainability*
Maria Gavrilesu
Workshop Sustainability in Education, Research, Development and Innovation, September 15-16, 2010
University of Twente, Enschede, Olanda, August 15, 2010
Invited lecturer
22. *National Romanian strategy for sustainable development*
Workshop Sustainability in Education, Research, Development and Innovation, 15-16 septembrie 2010
University of Twente, Enschede, Olanda, August 15, 2010
Invited lecturer
- 2009**
23. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesu
Pannon University, Veszprem, Ungaria, August 25, 2009
Invited lecturer
24. *Integrated studies on the behaviour of persistent pollutants and risks associated with their persistence in the environment*
Maria Gavrilesu
Pannon University, Veszprem, Ungaria, August 25, 2009
Invited lecturer
25. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesu
National Symposium: Environment – Present and Perspectives for an Ecological Future, Iasi, March 2008.
Invited plenary lecture

2008

26. *Innovative and sustainable practices in industry. Case study: vegetable oil refining*
Maria Gavrilesco
2nd International Sustainability Conference: Creating Values for Sustainable Development, 21-August 22, 2008, Basel, Switzerland
Invited lecturer
27. *Integrated studies on the on the behaviour of persistent pollutants and risks associated with their presence in the environment*
Gavrilescu M., Robu B.M, Căliman A.F., Bețianu C., Pavel V.L.
Conferința Internațională Jubiliara e Inventică – INVENTICA 2008, Ed. a XII-a, 12-25 mai 2008, Iași
Invited lecturer
28. *Environmental Engineering and Management Journal - Beginning, Present and Perspectives*
Maria Gavrilesco, Keynote lecture
The Second National Symposium: "University's Creations" 2008, Iași, Romania, November 7 (2008).
Invited lecturer
29. *Pollution Prevention and Environmental Protection*
Maria Gavrilesco, Keynote lecture
National Symposium: Environment – Present and Perspectives for an Ecological Future, Iași, March 2008
Invited plenary lecture

2007

30. *Process Engineering and Pollution Prevention*
Maria Gavrilesco
Workshop, Technical University Vienna, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, August 24 – 30, 2007
Invited lecturer
31. *SIWMANET: Sustainable and Integrated Water Resources Management Network*
Maria Gavrilesco, Carmen Teodosiu
Workshop, Danish University of Technology, Copenhagen, Denmark (2007).
Invited lecturer
32. *An Education and Research Profile in Environmental Engineering and Management*
Maria Gavrilesco, Carmen Teodosiu
Workshop, Danish University of Technology, Copenhagen, Denmark (2007).
Invited lecture

2006

33. *Practical aspects on the elaboration of project proposals*
Maria Gavrilesco
Workshop "SIWMANET", October 2006, Iasi, Romania.
Invited lecture
34. *Pollution prevention and cleaner production – optimistic perspectives for Romania*
3rd International Conference on Environmental Engineering and Management, September 23-26, 2006, Iasi, Romania.
Invited lecture
35. *Integrated pollution prevention and control in industrial sectors*
Maria Gavrilesco
Workshop: Process Integration and Design for Pollution Prevention, University Minho, Portugal, Department of Biological Engineering, Braga, June 10, 2006
Invited lecture

2005

36. *Bioremediation in environmental engineering*
Maria Gavrilesco
Seminar: Biological Engineering University Minho, Portugal, Department of Biological Engineering, Braga, September 30, 2005
Invited lecture
37. *Biosorption of heavy metals by marine algae*
Maria Gavrilesco
Seminar: Biological Engineering, University Minho, Portugal, Department of Biological Engineering, Braga, September 30, 2005.
Invited lecture

38. *Romanian perspective on partnerships in sustainable water management and use*, Carmen Teodosiu, **Mariana Gavrilescu**, George Barjoveanu
2nd LK Conference: "Advancing Science and Society Interactions", Sevilla 3-5 februarie 2005,
 Workshop: *Linking partners in transnational co-operation on sustainable water management and land use*
Invited lecture
- 2004**
39. *Sources of pollution. Dangerous substances*,
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
 organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
 of Iasi, September 3-10, 2004.
Invited lecture
40. *Major accidents in connection with hazardous industries*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
 organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
 of Iasi, September 3-10, 2004.
Invited lecture
41. *Community Measures: Seveso Directives*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
 organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
 of Iasi, September 3-10, 2004.
Invited lecture
42. *Environmental risk assessment for new projects*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
 organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
 of Iasi, September 3-10, 2004.
Invited lecture
- 2003**
43. *Department of environmental engineering: opportunities for cooperation with IIIIEE*
 Carmen Teodosiu, Matei Macoveanu, **Maria Gavrilescu**
 Workshop within the exchange on curricula held at the International Institute for Industrial Environmental
 Economics, IIIIEE Lund, Suedia, Grant **Knowledge transfer and institutional capacity building for
 cleaner production in Romania, 2003** funded by the Swedish Institute Stockholm, Suedia
Invited lecture
44. *Chemical engineering in the postmodern world*
Maria Gavrilescu
Celebration of 2003 students' graduation of the Faculty of Chemical Engineering
Invited lecture
- 2002**
45. *Pages from the history of the chemical engineering academic education in Iasi*
 Valentin Popa, Valeria Marta Gorduza, **Maria Gavrilescu**
The Third Conference of the Faculty of Industrial Chemistry, Iași, October 13-15, 2002.
Invited lecture
- 2001**
46. *Accomplishments and perspectives in academic research at Faculty of Industrial Chemistry Iasi*
 Valentin I. Popa, **Maria Gavrilescu**
The XXVIth International Symposium of Chemistry, October 4-6, Calimanesti-Romania 4-6 October
 2000, Călimănești-Căciulata, Vâlcea
Invited lecture
- 1999**
47. *Mathematical Modelling, Premise for Pollutants Minimization at Source*
Maria Gavrilescu, F. Ungureanu, M. Nicu
Conference Days of the Department of Environmental Engineering, Faculty of Industrial Chemistry,
 Iasi, December 1999.
Invited lecture
- 1996**
48. *Flow modelling in gas-lift reactors*
Maria Gavrilescu, Radu Z. Tudose
Academic Days, October 10-13, Iasi (1996)
Invited lecture

1995

49. *Research on chemical engineering at Research Center for Antibiotics Iasi, Romania*
Rodica Viorica Roman, **Maria Gavrilescu**
Academic Days, 5 - 8 October, Iasi (1995).
Invited lecture
50. *Biosynthesis of some antibiotics in industrial scale modified stirred tank bioreactors*
Rodica Viorica Roman, **Maria Gavrilescu**
"40 Years of Industrial Biosynthesis of Drugs in Romania", Iasi, December, 8-9 (1995)
Invited lecture

1993

51. *Mass transfer modelling in gas-lift reactors*
Maria Gavrilescu, Radu Z. Tudose **Academic Days**,
May 20 - 22, Timisoara, Romania (1993)
Invited lecture

1986

52. *Agitation. Flow models in agitated liquids.*
Maria Gavrilescu, Rodica Viorica Roman
Research Center for Antibiotics Conference Days, Iasi, Romania, 1986
Invited lecture

1984

53. *Some aspects on mass transfer in fermentation processes*
Maria Gavrilescu, Rodica Viorica Roman
Research Center for Antibiotics Iasi Conference Days, Romania, 1984
Invited lecture

Oral Communications and Posters

National and International Conferences and Symposia

2019

1. *Optimization of biosorption process for hexavalent chromium removal by microorganisms*
Mihaela Rosca, Mariana Diaconu, **Maria Gavrilescu**,
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania
Oral presentation
2. *The behavior of plants in the presence of organic UV filters*
Mariana Minuț, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Cezar Catrinescu, Mariana Diaconu,
Maria Gavrilescu
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania
Oral presentation
3. *Lindane toxic effects on white mustard (*Sinapis alba*) and rapeseed (*Brassica napus*)*
Sebastian Ionut Vasilica, Mihaela Rosca, Petronela Cozma, Diana Elena Comanita, Mariana Diaconu,
Cezar Catrinescu, **Maria Gavrilescu**
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania
Oral presentation
4. *Ecological and human health risks generated by organic UV filters*
Mariana Minuț, Mihaela Rosca, Petronela Cozma, Cezar Catrinescu, **Maria Gavrilescu**
E-Health and Bioengineering Conference (EHB), 2019, 21-23 November 2019, Iasi, Romania
Poster
5. *Influence of cadmium and lead ions toxicity on lettuce seeds germination: a preliminary analysis*
Petronela Cozma, Dana-Mihaela Asimincesei, Raluca-Maria Hlihor, Mihaela Rosca, **Maria Gavrilescu**
E-Health and Bioengineering Conference (EHB), 2019, 21-23 November 2019, Iasi, Romania
Poster
6. *Ecological risk assessment of nickel in soil and the effects on the Brassica napus growth*
Mihaela Roșca, Petronela Cozma, Mariana Minuț, Dana Mihaela Asimincesei, Camelia Smaranda, Mariana
Diaconu, **Maria Gavrilescu**
E-Health and Bioengineering Conference (EHB), 21-23 November 2019, Iasi, Romania
Poster

7. *Environmental bioremediation by plants and microorganisms*
Maria Gavrilesco, Mihaela Roșca, Diana-Elena Comăniță, Raluca Maria Hlihor, Petronela Cozma, Mariana Diaconu
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

8. *The development of Brassica napus under the stress of cadmium: An ecological risk approach*
 Petronela Cozma, Mihaela Roșca, Raluca Maria Hlihor, Dana Mihaela Asiminicesei, Diana Elena Comăniță, **Maria Gavrilesco**
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

9. *The evaluation of the phytotoxic effects on plants exposed to pesticides*
 Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Petronela Cozma, **Maria Gavrilesco**
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

10. *An approach towards modeling the human health risks posed by pesticides residues in lettuce*,
 Hlihor R.M., Paiu M., Favier L., Stoleru V., **Gavrilesco M.**
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

11. *Environmental impact assessment generated by different management practices: a case study applied in the city of Bologna, Italy*,
 Ghiga S.C., Simion I.M., Hlihor R.M., Bonoli A., **Gavrilesco M.**,
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

12. *Cumulative risk assessment of the intake of fruits and vegetables with multiple pesticides*
 Mariana Minuț, Mihaela Roșca, Petronela Cozma, Raluca Maria Hlihor, **Maria Gavrilesco**,
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

13. *Environmental impact assessment in the elimination processes of organic and inorganic pollutants from soil using phytoremediation*,
 Elena-Diana Comăniță, Camelia Smaranda, Mihaela Roșca, Petronela Cozma, **Maria Gavrilesco**
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

14. *Evaluation of zeolite 13X performances for dynamic adsorption of cadmium ions in fixed bed column*
 Mihaela Roșca, Raluca-Maria Hlihor, Teresa Tavares, **Maria Gavrilesco**
USAMV Iasi Open Days, 17-18 October 2019, Iasi, Romania
Poster

15. *Behind the mechanism of chromium(vi) removal and reduction from aqueous solutions by fungal biomass using a bio-inspired process modelling and optimization*
 Hlihor R.M., Drăgoi E.N., Diaconu M., Favier L., Curteanu S., **Gavrilesco M.**
2nd Euro-Mediterranean Conference for Environmental Integration (EMCEI-2), 10-13 October 2019, Sousse, Tunisia.
Oral presentation

16. *Equilibrium study of pentachlorophenol in soil matrix*
 Camelia Smaranda, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilesco**, *International Conference ICICH60*, 9-11 octombrie 2019, Chisinau, Republica Moldova.
Poster

17. *Exploring and exploiting microbial and plant abilities and interactions in environmental bioremediation – A project for sustainable environment*
Maria Gavrilesco
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21 September, Iasi. Romania.
Poster

18. *An analysis on WEEE management strategies in Romania*
 Ghiga S.C., Simion I.M., Hlihor R.M., **Gavrilesco M.**,
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21 September, Iasi. Romania.
Poster

19. *Effect of lindane on photosynthetic pigments in Sinapis alba leaves*,
Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Sebastian Vasiliță, Petronela Cozma, **Maria Gavrilăscu**,
The 10th International Conference on Environmental Engineering and Management (ICEEM10),
18-21 September, Iasi. Romania.
Poster
20. *Phytotoxicity of Cd(II) ions on seed germination and growth of tested plants*
Petronela Cozma, Mihaela Roșca, Elena-Diana Comăniță, Sebastian-Ionuț Vasiliță, Mariana Minuț, Dana Asimănescu, Mariana Diaconu, **Maria Gavrilăscu**
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21
September, Iasi. Romania.
Poster
21. *Life cycle assessment of soil phytoremediation*
Elena-Diana Comăniță, Cristina Ghinea, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Sebastian Ionuț
Vasiliță, **Maria Gavrilăscu**,
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21
September, Iasi. Romania.
Poster
22. *Investigating the toxic effects of lindane on white mustard (Sinapis alba)*
Sebastian Ionuț Vasiliță, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Mariana Diaconu,
Cezar Catrănescu, **Maria Gavrilăscu**
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21
September, Iasi. Romania
Poster
23. *Evaluation of human health risk associated with the presence of pesticides in fruits and vegetables*
Mariana Minuț, Mihaela Roșca, Petronela Cozma, Raluca Maria Hlihor, **Maria Gavrilăscu**,
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21
September, Iasi. Romania.
Poster
24. *Cadmium ions removal from aqueous solution using Bacillus megaterium biofilm layer on zeolite support*
Mihaela Roșca, Teresa Tavares, **Maria Gavrilăscu**
The 10th International Conference on Environmental Engineering and Management (ICEEM10), 18-21
September, Iasi. Romania.
Poster
25. *Evaluation of soil phytoremediation performance by multicriteria decision analysis*,
Elena-Diana Comăniță, Cristina Ghinea, Simona Cecilia Ghiga, **Maria Gavrilăscu**
International Conference on Environmental Science and Development (ICESD), 26 – 27 July 2019 –
Milan, Italy
Oral presentation
26. *Effects induced by heavy metals stress on seedlings development of lettuce*
Dana-Mihaela Asimănescu, Raluca Maria-Hlihor, Mihaela Roșca, Petronela Cozma, **Maria Gavrilăscu**
640th International Conference on Environmental Science and Development (ICESD), 20th - 21st July 2019,
Oral presentation
27. *A comparison of the environmental impacts resulted during biosorption of Cr(VI) from aqueous solutions*,
Raluca Maria Hlihor, Isabela Maria Simion, Lidia Favier, **Maria Gavrilăscu**,
Workshop on Applications of Multi-scale Approaches in Environmental Chemistry (AMARE 2019), 22-28 April
2019, Rennes, France.
Oral presentation
- 2018**
28. *Functional groups on microorganisms wall surface involved in cadmium ions removal from aqueous solution*
Mihaela Roșca, Mariana Diaconu, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilăscu**
Conference of Doctoral School, "Gheorghe Asachi" Technical University of Iasi, 23-24 Mai, 2018, Iași, Romania
Oral Presentation
29. *Lead (Pb²⁺) toxicity effects on White mustard (Sinapis alba)*
Sebastian Ionuț Vasiliță, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță, Mariana Diaconu, **Maria Gavrilăscu**
Conference of Doctoral School, "Gheorghe Asachi" Technical University of Iasi, 23-24 Mai, 2018, Iași, Romania
Oral Presentation

30. *Investigation of heavy metals toxic effects on White Mustard*
 Sebastian Ionuț Vasiliță, Mihaela Roșca, Elena-Diana Comăniță, Petronela Cozma,
 Mariana Diaconu, **Maria Gavrilesco**
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Oral Presentation
31. *Phytotoxicity and accumulation of lindane in terrestrial plants,*
Mihaela Roșca, Sebastian Ionuț Vasiliță, Elena-Diana Comăniță, Petronela Cozma,
Camelia Smaranda, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilesco
 15th International Symposium on Persistent Toxic Substances, 6-11 November 2018 – FHNW, Basel, Switzerland
Oral Presentation and Poster
32. *Monitoring of heavy metals in the environment: from estimation methods to trace analysis (in Romanian: Monitorizarea metalelor grele în mediul înconjurător: de la metode estimative la analiza în urme),*
 Laura Bulgariu, Carmen Teodosiu, **Maria Gavrilesco**
 Days of the "Gheorghe Asachi" Technical University in Iași, 6-16 November 2018, Iași, România
Prezentare orală
33. *Removal of toxic metal ions from aqueous effluents by biosorption and bioaccumulation in an airlift system*
 Mihaela Roșca, Teresa Tavares, **Maria Gavrilesco**,
 7th European Bioremediation Conference (EBC-VII) and the 11th International Society
 for Environmental Biotechnology Conference (ISEB 2018), Chania, Grecia, 25-28 June, 2018.
Poster
34. *Evaluation of phytoremediation performance for the removal of heavy metals from the Environment by Life Cycle Assessment (LCA),*
 Elena-Diana Comăniță, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Sebastian Ionuț Vasiliță, **Maria Gavrilesco**,
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Poster
35. *Kinetic modeling of metal uptake in phytoremediation*
 Petronela Cozma, Sebastian Ionuț Vasiliță, Mihaela Roșca, Raluca Maria Hlihor, Cristina Ghinea,
 Laura Carmen Apostol, Elena Diana Comăniță, Camelia Smaranda, Mariana Diaconu, **Maria Gavrilesco**,
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Poster
36. *Survey on pesticides used at national and international level and available technologies for the environmental remediation*
 Mihaela Roșca, Elena-Diana Comăniță, Petronela Cozma, Raluca-Maria Hlihor, **Maria Gavrilesco**
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Poster
37. *Behavior of Bacillus megaterium living biomass in a concentric-tube air-lift bioreactor in the presence of cadmium ions*
 Mihaela Roșca, Teresa Tavares, Petronela Cozma, **Maria Gavrilesco**
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Poster
38. *Acute toxicity of heavy metals to various species of bacteria*
 Mariana Diaconu, Sebastian Ionuț Vasiliță, Mihaela Roșca, Petronela Cozma, Elena Diana Comăniță, Camelia
 Smaranda, Raluca-Maria Hlihor, **Maria Gavrilesco**
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,
 Romania, "Gheorghe Asachi" Technical University of Iași, "Cristofor Simonescu" Faculty of Chemical Engineering
 and Environmental Protection, Iași, Romania.
Poster

39. *Evaluation of toxic potential of dairy and meat industry wastewaters: phytotoxicity study on weeds and crop plants*,
 Laura Carmen Apostol, S. Ropciuc, Petronela Cozma, **Maria Gavrilesco**,
 Fifth International Symposium on Green Chemistry, Development and Circular Economy (GREENCHEM), 30th September-03rd October, 2018, Skiathos, Grecia.
Poster
40. *Assessment of organochlorines pesticides phytotoxicity using seed germination and root elongation tests*,
 Mihaela Roșca, Sebastian Ionuț Vasilică, Petronela Cozma, Elena Diana Comăniță, Mariana Diaconu, Cezar Catrinescu, **Maria Gavrilesco**,
 Fifth International Symposium on Green Chemistry, Development and Circular Economy (GREENCHEM), 30th September-03rd October, 2018, Skiathos, Greece.
Poster
41. *Potential of living *Rhodotorula* sp. for cadmium ions removal from aqueous solutions*,
 Mihaela Roșca, Teresa Tavares, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilesco**
 4th International Conference on Green Chemistry and Sustainable Engineering 23th - 25th July , 2018 Madrid, Spain
Poster
42. *A comparison on the toxicity of Cr(III) and Cr(VI) in plants*,
 Raluca-Maria Hlihor, Roxana Grigoras, Dana-Mihaela Asimincesei, Lidia Favier, **Maria Gavrilesco**,
 "U.S.A.M.V. Iasi Open Days", 18th - 25th October 2018, Iasi, Romania
Poster
43. *Perspectives on e-waste environmental impacts based on Life Cycle Assessment*,
 Simona Cecilia Ghiga, Isabela Maria Simion, Raluca Maria Hlihor, **Maria Gavrilesco**,
 "U.S.A.M.V. Iasi Open Days", 18th - 25th October 2018, Iasi, Romania
Poster
44. *Biosorptive performances of soy waste biomass in environmental remediation processes*,
 Daniela Ionela Ferțu, Laura Bulgariu, Teodor Măluțan, **Maria Gavrilesco**
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași, Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania.
Poster
45. *Raster sampling, chemical characteristics and floristic peculiarities of a soil affected by anthropic activities*,
 Zotica T.A., Chirilă S.D., Balan C., **Volf I.**,
 4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași, Romania, Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simonescu".
Poster
46. *A comparison of two tools for assessing human health risks of pesticides in apples*
 Raluca-Maria Hlihor, Isabela-Maria Simion, Manuela Olga Pogăcean, Mihaela Roșca, Petronela Cozma, **Maria Gavrilesco**
 International Conference on Life Sciences, Section "Trends in European Agriculture Development", 24-25 May, 2018, Timișoara, Romania
Oral communication
47. *Short- and long-term exposure and associated human health risks to pesticide residues in tomatoes*
 Raluca-Maria Hlihor, Manuela Olga Pogăcean, Petronela Cozma, Mihaela Roșca, **Maria Gavrilesco**
 International Conference on Life Sciences, Section "Trends in European Agriculture Development", 24-25 May, 2018, Timișoara, Romania
Oral communication
48. *Probabilistic modelling of consumer exposure to pesticide residues in tomatoes*
 Petronela Cozma, Marius Gavrilesco, Raluca-Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilesco**
 12th Environmental Legislation, Safety Engineering and Disaster Management – ELSESEDIMA International Conference, 17-18 May 2018, Cluj-Napoca, Romania
Poster
49. *An approach towards human health risk assessment of pesticide residues in apples*
 Isabela Maria Simion, Mihaela Roșca, Raluca Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilesco**
 12th Environmental Legislation, Safety Engineering and Disaster Management – ELSESEDIMA International Conference, 17-18 May 2018, Cluj-Napoca, Romania
Poster

50. *Modelling acute and chronic risks of pesticides residues in sour cherries*
Isabela Maria Simion, Raluca Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, Petronela Cozma, **Maria Gavrilesco**
SETAC Europe 28th Annual Meeting, Responsible and Innovative Research for Environmental Quality, 13-17 May, 2018, Rome, Italy
Poster

2017

51. *Life cycle assessment of paper manufacturing: environmental and human health impacts*,
Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, Petronela Cozma, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilesco**,
The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017, Grigore T. Popa University of Medicine and Pharmacy, June 22-24, 2017, Sinaia, Romania.
Poster
52. *Evaluation of environmental impacts for an eco-product manufactured by reusing production waste*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilesco**,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7),
17-19 July, 2017, Canary Islands, Spain.
Poster
53. *Eco-efficiency evaluation of alternatives for recycling and reuse of production waste by multi-criteria decision analysis*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilesco**,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7),
17-19 July, 2017, Canary Islands, Spain.
Poster
54. *Life cycle assessment implications for waste from electrical and electronic equipment (WEEE)*,
Simona Cecilia Ghiga, Isabela Maria Simion, Nello Napoletano, Alessandra Bonoli, Raluca Maria Hlihor, **Maria Gavrilesco**,
7th International Congress of Energy and Environment Engineering and Management (CIIEM7),
17-19 July, 2017, Canary Islands, Spain.
Poster
55. *A life cycle approach on food waste management in the frame of circular economy*,
Cristina Ghinea, Diana Elena Comanita, **Maria Gavrilesco**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 Septembrie 2017, Bologna, Italy.
Poster
56. *Evaluation of eco-efficiency by multicriteria decision analysis. case study of eco-innovated and eco-designed products from recyclable waste*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilesco**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral presentation
57. *Life cycle cost analysis of alternatives for closing the loop in a manufacturing sector based on eco-innovation and ecodesign*,
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilesco**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster
58. *Perspectives on waste electrical and electronic equipment management system in Romania*,
Simona Cecilia Ghiga, Raluca Maria Hlihor, Isabela Maria Simion, **Maria Gavrilesco**
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster

59. *Indicators for knowledge transfer from university to industry for life cycle extending in the context of circular economy,*
Petronela Cozma, Teofil Câmpean, Ariadna Negruț, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comaniță, Simona Cecilia Ghiga, Camelia Smaranda, Raluca Maria Hlihor, **Maria Gavrilesu**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral presentation
60. *Challenges of circular economy: eco-innovation and eco-design in manufacturing sector,*
Teofil Câmpean, Raluca-Maria Hlihor, Isabela Maria Simion, Elena-Diana Comaniță, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Dan-Alexandru Gavrilesu, Cristina Ghinea, **Maria Gavrilesu**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6-9 September 2017, Bologna, Italy.
Poster
61. *Life cycle analysis of processes and products manufactured from production waste based on eco-innovation and eco-design principles,*
Isabela Maria Simion, Elena-Diana Comaniță, Petronela Cozma, Cristina Ghinea, Teofil Câmpean, Raluca Maria Hlihor, Mihaela Roșca, Simona Cecilia Ghiga, Camelia Smaranda, **Maria Gavrilesu**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Oral presentation
62. *Dimensional and quantitative analysis of production wastes from packaging industry for their revaluation. The case study of a Romanian manufacturer,*
Igor Crețescu, Teofil Câmpean, Teodor Constantin Nechita, Adrian Cătălin Puițel, Teodor Măluțan, Dan-Alexandru Gavrilesu, Camelia Smaranda, Petronela Cozma, **Maria Gavrilesu**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster
63. *Studies on organic pollutants transport and diffusion in various environmental compartments,*
Camelia Smaranda, Petronela Cozma, Ioan Mămăligă, Adrian Catalin Puitel, Teodor Malutan, **Maria Gavrilesu**,
9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability, 6 – 9 September 2017, Bologna, Italy.
Poster
64. *Application of cost-benefit analysis for an eco-product manufactured from production waste,*
Elena-Diana Comaniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Câmpean, **Maria Gavrilesu**
9th International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2017), 25-27 September 2017, Athens, Greece.
Poster
65. *Life cycle assessment of corrugated board packaging,*
Cristina Ghinea, Diana Elena Comanita, **Maria Gavrilesu**,
Symposium of Agriculture and Food Engineering, 19-20 October 2017, Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine "Ion Ionescu de la Brad" Iasi, Romania
Poster
66. *Knowledge transfer - a sustainable tool for strengthening the links between the university and industry,*
Petronela Cozma, Teofil Câmpean, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comaniță, Camelia Smaranda, Raluca Maria Hlihor, **Maria Gavrilesu**,
Academy of Romanian Scientists - Autumn Scientific Session, Scientific Research in Support of Sustainable Development, Timisoara, 12-14 October 2017.
Oral presentation
67. *Environmental performance of heavy metal biosorption - desorption processes using soybean/ waste biomass. A life cycle approach*
Daniela Ionela Fertu, Isabela Maria Simion, Mihaela Rosca, Laura Bulgariu, **Maria Gavrilesu**
16th International Symposium on Biosorption and Biodegradation/Bioremediation, BioBio 2017, Prague, Czech Republic, June 25-29, 2017
Poster
68. *Synergistic interactions among plants and bacteria in the remediation of heavy metals contaminated soils*
Mihaela Roșca, Raluca Maria Hlihor, Petronela Cozma, Diana Elena Comaniță, Maria Gavrilesu
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers, 25-27 October 2017 Galați, Romania
Poster

69. *Evaluation of bioremediation performance for the removal of heavy metals from soils*
Comăniță Elena-Diana, Simion Isabela Maria, Ghinea Cristina, Cozma Petronela, Smaranda Camelia, Roșca Mihaela, Hlihor Raluca Maria, Gavrilescu Maria
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers, 25-27 October 2017 Galați, Romania
Poster
70. *Sustainability analysis of bioremediation and phytoremediation of persistent inorganic and organic compounds in the environment*
Ghinea Cristina, Comăniță Elena-Diana, Apostol Laura Carmen, Cozma Petronela, Gavrilescu Maria
New Trends in Environmental and Materials Engineering, The IVth Edition of the International Conference of Young Researchers, 25-27 October 2017 Galați, Romania
Poster
71. *The potential of some indigenous microorganisms and plants for the removal of heavy metals from soil*
Hlihor Raluca-Maria, Roșca Mihaela, Cozma Petronela, Simion Isabela Maria, Gavrilescu Maria
USAMV IASI OPEN DAYS, 105 YEARS OF HIGHER EDUCATION IN IASI, 19-27 October 2017, Iasi, Romania
Poster
72. *Comparative study of some heavy metals toxicity in lettuce*
Hlihor Raluca-Maria, Asiminicesei Dana-Mihaela, Stoleru Vasile, Gavrilescu Maria
USAMV IASI OPEN DAYS, 105 YEARS OF HIGHER EDUCATION IN IASI, 19-27 October 2017, Iasi, Romania.
Poster
73. *Ecotoxicological evaluation of organic contaminants for plant-associated microorganisms*
Apostol Laura Carmen, Raluca Maria Hlihor, Petronela Cozma, Cristina Ghinea, Gavrilescu Maria
9th International Conference on Environmental Engineering and Management (ICEEM09)
6-9 septembrie 2017, Bologna, Italia
Poster
74. *A life cycle approach on food waste management in the frame of circular economy*
Ghinea Cristina, Comăniță Elena-Diana, Gavrilescu Maria
9th International Conference on Environmental Engineering and Management (ICEEM09)
6-9 septembrie 2017, Bologna, Italia
Poster
75. *Assessment of acute and chronic risks generated by pesticide residues in sweet peppers*
Raluca-Maria Hlihor, Isabela-Maria Simion, Mihaela Roșca, Petronela Cozma, Manuela Olga Pogăcean, Vasile Stoleru, **Maria Gavrilescu**
International Congress "USAMV Iasi Open Days" 105 years of higher education in Iasi, 19-27 October, 2017, Iasi, Romania
Oral presentation
76. *Kinetics of pesticides degradation in sweet peppers*
Raluca-Maria Hlihor, Manuela Olga Pogăcean, Petronela Cozma, Vasile Stoleru, **Maria Gavrilescu**
International Congress "USAMV Iasi Open Days" 105 years of higher education in Iasi, 19-27 October, 2017, Iasi, Romania
Poster
77. *Tools for the characterization of pesticide risk in food products. An overview*,
Mihaela Roșca, Raluca-Maria Hlihor, Petronela Cozma, **Maria Gavrilescu**,
9th International Conference on Chemical, Biological and Environmental Engineering, ICBEE 2017, 25-27 September, 2017, Athens, Greece.
Poster
78. *Managing pesticide residues in sour cherries: A human health risk assessment approach*,
Raluca Maria Hlihor, Manuela Olga Pogăcean, Petronela Cozma, Isabela Maria Simion, Vasile Stoleru, **Maria Gavrilescu**,
The 9th International Conference on Environmental Engineering and Management, Circular economy and Environmental Sustainability, ICEEM09, 6-9 September 2017, Bologna, Italy
Oral presentation

79. *Analysis of pesticide fate and behavior in fruit and vegetables and associated human health risks*, Raluca Maria Hlihor, Isabela Maria Simion, Petronela Cozma, Manuela Olga Pogăcean, Mihaela Roșca, **Maria Gavrilesu**, ***The 9th International Conference on Environmental Engineering and Management, Circular economy and Environmental Sustainability, ICEEM09***, 6-9 September 2017, Bologna, Italy
Poster
80. *Validation of a multiresidue method for pesticides determination in apples by gas chromatography coupled with mass spectrometry with flight time*, Manuela Olga Pogăcean, Raluca Maria Hlihor, Lidia Favier, **Maria Gavrilesu**, ***The 9th International Conference on Environmental Engineering and Management, Circular economy and Environmental Sustainability, ICEEM09***, 6-9 September 2017, Bologna, Italy
Poster
81. *Inquiry on pesticides residues in plant based products at national and international level*, Mihaela Roșca, Raluca Maria Hlihor, Isabela Maria Simion, Petronela Cozma, **Maria Gavrilesu**, ***The 9th International Conference on Environmental Engineering and Management, Circular economy and Environmental Sustainability, ICEEM09***, 6-9 September 2017, Bologna, Italy,
Poster
82. *Kinetic modelling of pesticide degradation in apples*, Raluca Maria Hlihor, Petronela Cozma, Manuela Olga Pogăcean, Isabela Maria Simion, Laura Carmen Apostol, **Maria Gavrilesu**, ***The 9th International Conference on Environmental Engineering and Management, Circular economy and Environmental Sustainability, ICEEM09***, 6-9 September 2017, Bologna, Italy
Poster
83. *Modelling the behavior of pesticide residues in tomatoes and their associated long-term exposure risks*, Raluca Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilesu**, ***7th International Congress of Energy and Environment Engineering and Management, CIIEM7***, 17-19 July 2017, Las Palmas de Gran Canaria, Spain
Oral communication
84. *A lifetime exposure assessment to pesticides present in certain plant products*, Isabela Maria Simion, Raluca Maria Hlihor, Petronela Cozma, **Maria Gavrilesu**, Manuela Pogăcean ***7th International Congress of Energy and Environment Engineering and Management, CIIEM7***, 17-19 July 2017, Las Palmas de Gran Canaria, Spain
Poster
85. *Dose-response analysis as support for assessing human health risk of pesticides applied in fruit and vegetables*, Petronela Cozma, Raluca Maria Hlihor, Isabela Maria Simion, Mihaela Roșca, **Maria Gavrilesu**, ***7th International Congress of Energy and Environment Engineering and Management, CIIEM7***, 17-19 July 2017, Las Palmas de Gran Canaria, Spain
Poster
86. *Overview of human health hazards posed by pesticides in plant products*, Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion, **Maria Gavrilesu**, ***6th International Conference on e-Health and Bioengineering, EHB 2017***, 22-24 June 2017, Sinaia, Romania.
Oral presentation
87. *Impacts of pesticides on environmental and human health*, Petronela Cozma, Isabela Maria Simion, Raluca Maria Hlihor, **Maria Gavrilesu**, ***SETAC Europe 27th Annual Meeting, "Environmental quality through transdisciplinary collaboration"***, 7-11 May 2017, Brussels, Belgium.
Poster
88. *Behavior of pesticides in yellow peppers during their phenological growth stages*, Manuela Olga Pogăcean, Raluca Maria Hlihor, Isabela Maria Simion, Petronela Cozma, **Maria Gavrilesu**, ***SETAC Europe 27th Annual Meeting, "Environmental quality through transdisciplinary collaboration"***, 7-11 May 2017, Brussels, Belgium.
Poster
89. *Cumulative risk assessment strategies for pesticide residues in food products*, Raluca-Maria Hlihor, Isabela Maria Simion, Petronela Cozma, **Maria Gavrilesu**, ***SETAC Europe 27th Annual Meeting, "Environmental quality through transdisciplinary collaboration"***, 7-11 May 2017, Brussels, Belgium.
Poster

2016

90. *Improvement of solid waste management through sustainable use of resources*, Isabela Maria Simion, Raluca Maria Hlihor, Petronela Cozma, Laura Carmen, Apostol, Brandusa Mihaela Robu (Sluser), **Maria Gavrilescu**
Autumn Scientific Session, Academy of Romanian Scientists : Knowledge - Creativity - Spirituality, 22-24 September 2016, Durău – Neamț, Romania.
Oral communication
91. *Comparison of *Rhodotorula sp.* and *Bacillus megaterium* in the removal of cadmium ions from liquid effluents*, Mihaela Rosca, Raluca Maria Hlihor, Mariana Diaconu, Bruna Silva, Teresa Tavares, **Maria Gavrilescu**
2nd International Conference on Green Chemistry and Sustainable Engineering, 20-22 July 2016, Rome, Italy.
Poster
92. *Life Cycle Impact Assessment of Cr(VI) removal from aqueous solutions by *Arthrobacter viscosus**, Raluca Maria Hlihor, Isabela Maria Simion, Brandusa Mihaela Robu (Sluser), Teresa Tavares, **Maria Gavrilescu**
2nd International Conference on Green Chemistry and Sustainable Engineering, 20-22 July 2016, Rome, Italy.
Oral communication
93. *Human health risk assessment of pesticide residues in field grown yellow peppers*, Raluca Maria Hlihor, Manuela Olga Pogăcean, Brîndușa Mihaela Robu Sluser, **Maria Gavrilescu**
7th International Conference on Environmental Science and Technology, 10-12 June 2016, Barcelona, Spain.
Oral communication
94. *Bio-inspired process modeling and optimization for detoxification of contaminated effluents polluted with Cr(VI)*, Raluca Maria Hlihor, Elena Niculina Drăgoi, Mariana Diaconu, Silvia Curteanu, Teresa Tavares, **Maria Gavrilescu**,
10th ISEB Conference, International Society for Environmental Biotechnology, 01-03 June 2016, Barcelona, Spain.
Poster
95. *Comparison of physico-chemical and biological processes applied for the removal of dyes from wastewaters*, Laura Carmen Apostol, **Maria Gavrilescu**
10th ISEB Conference, International Society for Environmental Biotechnology, 01-03 June 2016, Barcelona, Spain.
Poster
96. *Screening of microorganisms for cadmium(II) removal from liquid effluents*, Mihaela Rosca, Raluca Maria Hlihor, Petronela Cozma, Mariana Diaconu, Teresa Tavares, **Maria Gavrilescu**
International Conference of Applied Sciences, CISA 2016, 02-04 June 2016, Bacau, Romania.
Poster
97. *Biosorbents effectiveness in the removal of heavy metals from aqueous solutions in bioreactors*, Mihaela Rosca, Raluca Maria Hlihor, Petronela Cozma, Mariana Diaconu, **Maria Gavrilescu**
International Conference of Applied Sciences, CISA 2016, 02-04 June 2016, Bacau, Romania.
Poster
98. *Evaluation of organic food waste environmental impacts as substrate source for biopolymers production*, Cristina Ghinea, Elena Diana Comăniță, **Maria Gavrilescu**
International Conference of Applied Sciences, CISA 2016, 02-04 June 2016, Bacau, Romania.
Poster
99. *Polyvinyl chloride (PVC) vs. polyhydroxyalkanoates (PHAs) production processes - a comparative life cycle assessment using SimaPro software*, Elena-Diana Comăniță, Cristina Ghinea, Remus Emilian Turculeț, Isabela Simion, Rossangela Spinelli, Sara Zanni, Francesco Lalli, Alessandra Bonoli, Ștefania Iordache, **Maria Gavrilescu**
International Conference of Applied Sciences, CISA 2016, 02-04 June 2016, Bacau, Romania.
Poster

100. *Evaluation of polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production processes with analytic network process technique*,
Elena Diana Comanita, Cristina Ghinea, **Maria Gavrilesu**
11th International Conference on "Environmental legislation, Safety Engineering and Disaster Management" ELSEDIM
26 - 28 May 2016, Cluj-Napoca, Romania.
Poster
101. *Population perception on reduce, reuse and recycling of household solid waste*,
Cristina Ghinea, Elena Diana Comanita, **Maria Gavrilesu**
11th International Conference on "Environmental legislation, Safety Engineering and Disaster Management" ELSEDIM
26 - 28 May 2016, Cluj-Napoca, Romania.
Poster
102. *The ability of Arthrobacter viscosus in the removal of Pb(II) from aqueous solutions*,
Raluca Maria Hlihor, Hugo Figueiredo, Mihaela Rosca, Teresa Tavares, **Maria Gavrilesu**
8th Eastern European Young Water Professionals Conference, Leaving the Ivory Tower - Bridging the Gap between Academia, Industry, Services and Public Sector,
11-14 May 2016, Gdansk, Poland,
Poster
103. *Analysis of the correlations between urban soil characteristics in Iasi area and contaminants behaviour (Analiza corelațiilor dintre caracteristicile solurilor urbane din zona Iasi și comportarea contaminanților)*,
C. Smaranda, **M. Gavrilesu**, C. Rusu, D. Bulgariu, **Omagial Symposia „Interdisciplinary Connexions in Geosciences”, Romanian Academy, Iasi Branch**, 1-2 April 2016, Iași, Romania.
Poster
104. *Reduction of recyclable waste by promoting product ecodesign*, Teofil Câmpean, Elena Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Cristina Ghinea, **Maria Gavrilesu**,
The Third International Conference of Chemical Engineering, Materials and Innovative Processes – ICCE2016, Iasi, 9-11 November, 2016
Poster
105. *Comparative evaluation of environmental impacts for plastic production processes using SimaPro software tool for Life Cycle Assessment (LCA)*,
Elena Diana Comăniță, Cristina Ghinea, Irina Gostin, Ștefania Iordache, Alessandra Bonoli, **Maria Gavrilesu**,
The Third International Conference of Chemical Engineering, Materials and Innovative Processes – ICCE2016, Iasi, 9-11 November, 2016
Poster
- 2015**
106. *Efficient removal of Pb(II) ions from accidental polluted waters by adsorption onto thermal activated lignin*
Gabriela Nacu, Lăcrămioara Negriță, Mihaela Roșca, Camelia Smaranda, Laura Bulgariu, **Maria Gavrilesu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster
107. *Evaluation of Pentachlorophenol Leaching Potential in Natural Soils*
Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculeț, Cristina Ghinea, **Maria Gavrilesu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster
108. *Potential of Biosorption and Bioaccumulation Processes for Heavy Metal Removal in Bioreactors*
Mihaela Rosca, Raluca - Maria Hlihor, Petronela Cozma, Elena - Diana Comăniță, Isabela Maria Simion, **Maria Gavrilesu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster
109. *Environmental Impacts of Polyvinyl Chloride (PVC) Production Process*
Elena-Diana Comăniță, Cristina Ghinea, Mihaela Roșca, Isabela Maria Simion, Madalina Petraru, **Maria Gavrilesu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster

110. *(Bio)remediation of heavy metals contaminated effluents in mechanical and pneumatic mixed systems*
M. Rosca, R.M. Hlihor, E.D. Comanita, P. Cozma, I.M. Simion, M. Diaconu, **M. Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
111. *Comparative photodegradation study of Erythrosin B using two reactors type*
L.C. Apostol, **M. Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
112. *Analysis of the degradation and potential human health risks of twelve pesticides applied in double dose in tomatoes*
Raluca Maria Hlihor, Manuela Olga Pogacean, Mihaela Rosca, **Maria Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
113. *Evaluation of municipal solid waste scenarios with AHP and ELECTRE Techniques*
Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, Hans Th. A Bressers, **Maria Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
114. *Environmental impacts evaluation of polyhydroxyalkanoates (PHAs) with recipe method*
Elena-Diana Comaniță, Cristina Ghinea, **Maria Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
115. *Dynamic behaviour of organic pollutants in the soil matrix - the influence of main parameters*
Camelia Smaranda, Mihaela Roșca, Petronela Cozma, **Maria Gavrilesu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster
116. *Agricultural waste used as an effective low-cost biosorbent for removing organic pollutants from aqueous solutions*
C. Smaranda, L.C. Apostol, E.D. Comanita, **M. Gavrilesu**
International Scientific Congress - Soil And Food, Resources For A Healthy Life, 22 - 24 October
2015, Iasi, Romania
Poster
117. *Impacts on climate change generated by polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production: A comparative approach*
Elena-Diana Comăniță, Cristina Ghinea, Mihaela Rosca, Lidia Favier, Irina Gostin, Ștefania Iordache, **Maria Gavrilesu**
International Scientific Congress - Soil And Food, Resources For A Healthy Life, 22 - 24 October
2015, Iasi, Romania
Poster
118. *O abordare integrată a evaluării riscurilor ecologice și pentru sănătatea umană generate de unele pesticide (An integrated approach of environmental risk assessment and human health arising from certain pesticides)*
Raluca-Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, **Maria Gavrilesu**
Sesiunea Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOȘR), 24-26
septembrie 2015, Iași, Romania
Oral presentation
119. *Sensitive determination of halogenated nitrogenous disinfection by-products in drinking water samples*
Y. Kadmi, L. Favier, **M. Gavrilesu**, C. Vial, D. Wolbert
9th International Conference on "Instrumental Methods of Analysis-Modern Trends and
Applications", 20-24 September 2015, Kalamata, Greece
Poster
120. *Assessment of transport and mobility of organic pollutants in soil*
C. Smaranda, M.C. Popescu, D. Bulgariu, T. Măluțan, **M. Gavrilesu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania

Poster

121. *Heavy metals tolerance of some microorganisms and plants: Consequences and potential applications to environmental bioremediation*
Mariana Diaconu, Lucian Vasile Pavel, Raluca Maria Hlihor, Dana Luminița Sobariu, Daniela Ionela Tudorache Fertu, Markus Lenz, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
122. *Comparative evaluation of petroleum-based polyvinyl chloride (pvc) vs. biologically-based polyhydroxyalkanoates (PHAs) by life cycle assessment (LCA)*
E.D. Comaniță, C. Ghinea, C. Smaranda, L. Favier, I. Gostin, S. Iordache, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
123. *Removal of Pb(II) ions from aqueous media by biosorption onto soy biomass*
Daniela Ionela Ferțu, Bogdan Istrate, Mihaela Roșca, Laura Bulgariu, Raluca-Maria Hlihor, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
124. *Valorisation of soy waste biomass as biosorbent for heavy metals removal from the environment*
Daniela Ionela Ferțu, Bogdan Istrate, Laura Bulgariu, Dumitru Bulgariu, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
125. *Forecasting municipal solid waste generation using prognostic tools and regression analysis*
C. Ghinea, E.N. Dragoi, E.-D. Comaniță, S. Curteanu, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
126. *Rhizobacteria and plants symbiosis in Cd(II) uptake and its implications for soil bioremediation*
Dana Luminița Sobariu, Mariana Diaconu, Lucian Vasile Pavel, Raluca-Maria Hlihor, Markus Lenz, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
127. *Estimation of volatile organic compounds from road traffic and their risk to human health in an urban area*
M. Roșca, R.M. Hlihor, E.D. Comaniță, I.M. Simion, C. Ghinea, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
128. *Characterization of a split-channel rectangular airlift reactor for application in efficient decontamination of gaseous effluents*
Cozma P., Roșca M., Smaranda C., Hlihor R.M., Mămăligă I., **Gavrilescu M.**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
129. *Cr(VI) removal from aqueous solution by dead and living *Arthrobacter viscosus* biomass: Laboratory investigation and scale up potential*
Raluca Maria Hlihor, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
130. *Simultaneous HPLC-ICP-MS speciation analysis of antimony (Sb) and arsenic (As): Application in environmental monitoring*
Dana Luminița Sobariu, **Maria Gavrilescu**, Markus Lenz
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania

Poster

131. *Ultra-performance liquid chromatography-tandem mass spectrometry for rapid and highly sensitive determination of haloacetamides: application to the analysis of water samples*
Yassine Kadmi, Lidia Favier, **Maria Gavrilescu**, Dominique Wolbert
EUROANALYSIS XVIII, 18th edition of EuroAnalysis, The European Conference on Analytical Chemistry, 6 - 10 September 2015, Bordeaux, France
Poster
132. *Environmental impact of polyhydroxyalkanoates (PHAs) using Life Cycle Assessment (LCA)*
Elena-Diana Comaniță, Cristina Ghinea, Irina Gostin, Stefania Iordache, **Maria Gavrilescu**
19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania
Poster
133. *Evaluation of environmental impacts generated by some municipal solid waste management systems with ReCiPe method*
Cristina Ghinea, Elena Diana Comanita, Mihaela Roșca, Gabriela Constantinescu, **Maria Gavrilescu**
19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania
Poster
134. *Assessing biomass potential for environmental clean-up and sustainable energy*
Diana Elena Comanita, Raluca Maria Hlihor, Daniela Ionela Fertu, Gabriela Nacu, Camelia Smaranda, Adrian Catalin Puitel, Dan Alexandru Gavrilescu, Laura Bulgariu, **Maria Gavrilescu**
6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece
Poster
135. *Recovered paper value for resource conservation and chemicals production*
Cristina Ghinea, Madalina Petraru, Adrian Catalin Puitel, Dan Alexandru Gavrilescu, Hans Bressers, **Maria Gavrilescu**
6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece
Poster

2014

136. *Sorption behavior of anionic dye Congo red in the soil environment*
C. Smaranda, B. Dragoi, D. Bulgariu, **M. Gavrilescu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
137. *Ecotoxicological evaluation of Erythrosine B and its degradation products*
L.C. Apostol, C. Smaranda, M. Diaconu, **M. Gavrilescu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
138. *Challenges and opportunities in green plastics: An assessment using the ELECTRE decision-aid method*
E.D. Comaniță, R.M. Hlihor, C. Ghinea, I.M. Simion, C. Smaranda, L. Favier, **M. Gavrilescu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
139. *A comparative life cycle assessment of three types of agricultural waste applied for Cd(II) biosorption*
R.M. Hlihor, I.M. Simion, C. Ghinea, E.D. Comanita, L.C. Apostol, P. Cozma, **M. Gavrilescu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
140. *Sustainability indicators associated to the ecological footprint in construction and demolition waste management*
I.M. Simion, S. Zanni, R.M. Hlihor, P. Cozma, D.L. Sobariu, S. Bamonti, A. Bonoli, **M. Gavrilescu**, Oana Banu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
141. *Evaluation of solid waste management scenarios using analytic hierarchy process (AHP) technique*
Cristina Ghinea, Elena Diana Comaniță, Madalina Petraru, Petronela Cozma, **Maria Gavrilescu**,
2nd International Conference on Chemical Engineering Innovative Materials and Processes România, Iași, 5-8 November 2014

Poster

142. *Comparison of ALR, BC and Packed Column Performances used for CO₂ Removal from Gas Mixtures*
Petronela Cozma, Walter Wukovits, Isabela Maria Simion, Raluca-Maria Hlihor, Anton Friedl, Ioan Mămăligă, **María Gavriľescu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România, Iași, 5-8 November 2014.
Poster
143. *Construction & Demolition Wastes: A Comparative Case Study Toward Eco-Designed Concrete*,
Sara Zanni, Isabela Maria Simion, Silvia Bamonti, Alessandra Bonoli, **María Gavriľescu**, Maria Chiara Bignozzi,
ECOMONDO, 18th International Trade Fair of material and Energy Recovery and Sustainable Development, 5-8 November 2014, Rimini, Italia.
Poster
144. *Eco-efficient construction and demolition waste management*,
Isabela Maria Simion, Sara Zanni, Silvia Bamonti, Alessandra Bonoli, **María Gavriľescu**, Maria Chiara Bignozzi,
ECOMONDO, 18th International Trade Fair of material and Energy Recovery and Sustainable Development, 5-8 November 2014, Rimini, Italia.
Poster
145. *Evaluation of untreated biomass of Phaseolus vulgaris L. as potential biosorbent for organic dyes*,
C. Smaranda, L.C. Apostol, E.D. Comanita, **M. Gavriľescu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1 November, 2014. Poster
146. *Multicriteria analysis applied to bioplastics and bioenergy production from waste*,
E.D. Comaniță, C. Ghinea, C. Smaranda, R.M. Hlihor, I.M. Simion, **M. Gavriľescu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1 November, 2014.
Poster
147. *Analysis of environmental impacts of municipal solid waste*,
Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, **María Gavriľescu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1 November, 2014.
Poster
148. *Assessment of Phaseolus vulgaris L. biomass as low-cost adsorbent for the removal of Congo red dye from aqueous solutions*,
C. Smaranda, E.D. Comaniță, L.C. Apostol, **M. Gavriľescu**,
International Scientific Congress - "Life Sciences, a Challenge for the Future", Iași, România, 23 - 25 October 2014.
Poster
149. *The evaluation of factors affecting sorption of pentachlorophenol in soil*
C. Smaranda, D. Bulgariu, T. Măluțan, **M. Gavriľescu**,
International Scientific Congress - "Life Sciences, a Challenge for the Future", Iași, România, 23 - 25 October 2014.
Poster
150. *Risk assessment of municipal solid waste landfilling*
Cristina Ghinea, Diana Elena Comanita, Isabela Maria Simion, Petronela Cozma, **María Gavriľescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7 June 2014, Bacau, Romania
Oral presentation
151. *Occurrence of plastic waste in the environment: ecological and health risks*
Elena - Diana Comanita, Raluca Maria Hlihor, Cristina Ghinea, **María Gavriľescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7 June 2014, Bacau, Romania
Oral presentation
152. *Assessment of human health risk of pesticides applied in double dose on apples*
Raluca Maria Hlihor, Manuela Olga Pogăcean, **María Gavriľescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR2014
04-07 June 2014, Bacau, Romania.
Poster

153. *Environmental risks of Erythrosin B*
Laura Carmen Apostol, Raluca Maria Hlihor, **María Gavriescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR2014
04-07 June 2014, Bacau, Romania.
Poster

154. *Selective recovery of antimony from wastewaters*
Sobariu D.L., Zimmermann Y.-S., Müller S., **Gavriescu M.**, Lenz M.
Biotechnology & Metals, 17-19 September, 2014, Kosice, Slovakia
Poster

2013

155. *Evaluation of Environmental Impacts for Cd(II) Biosorption on Pumpkin Seed Hulls using Life Cycle Assessment*
Raluca Maria Hlihor, Cristina Ghinea, Dana Sobariu, Isabela Teslaru, Laura Carmen Apostol, Petronela Cozma, Laura Bulgariu, **María Gavriescu**
The 7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability, 18 – 21 September 2013, Vienna, Austria
Oral presentation

156. *Life Cycle Assessment of Waste Management and Recycled Paper Systems*
Cristina Ghinea, Madalina Petraru, Isabela Simion, Dana Sobariu, Hans Th. A Bressers, **María Gavriescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster

157. *Modelling and optimization of CO₂ absorption in pneumatic contactors using artificial neural networks developed with clonal selection based algorithm*
Petronela Cozma, Ioan Mămăligă, Elena Niculina Drăgoi, Silvia Curteanu, Walter Wukovits, Anton Friedl, **María Gavriescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Oral presentation

158. *Experimental analysis and mathematical prediction of Cd(II) removal by biosorption using artificial neural network and genetic algorithm*
Raluca Maria Hlihor, Mariana Diaconu, Florin Leon, Silvia Curteanu, **María Gavriescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster

159. *Assessment of environmental impacts of municipal solid waste management strategies*
Ana-Maria Şchiopu, Ion Apostol, **María Gavriescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster

2012

160. *Production and composition of construction and demolition waste in Romania*
Isabela Maria Simion, Maria Emiliană Fortună, Alessandra Bonoli, **María Gavriescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
Poster

161. *Sustainable urban environment: ecological footprint analysis of building construction*
Maria Emiliană Fortună, Isabela Maria Simion, Alessandra Bonoli, **María Gavriescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
Poster

162. *Investigation of Parameters Influencing the Hazardous Food Dye Photocatalytic Degradation Using Slurry Reactor*
Laura Carmen Apostol, Anca Florentina Caliman, **María Gavriescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
Poster

163. *Bioremoval of Pb(II) from aqueous solutions by living Arthrobacter viscosus*
 Raluca Maria Hlihor, Hugo Figueiredo, Mariana Diaconu, Teresa Tavares, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International
 Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
 Iasi, Romania
 Poster
164. *Aerobic Biodegradation of Phenol by Activated Sludge in a Batch Reactor*
 Petronela Cozma, Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International
 Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
 Iasi, Romania
 Poster
165. *Environmental assessment of recyclable materials using life cycle assessment and multicriteria evaluation*
 Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International
 Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
 Iasi, Romania
 Poster
166. *Integrated multi-criteria decision-making methodology for assessing the sustainability of paper production
 scenario*
 Mădălina Petraru, Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International
 Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
 Iasi, Romania
 Poster
167. *Bioavailability and bioaccessibility of heavy metals in soil and risks on human health"*
 Dana Luminița Sobariu, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International
 Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
 Iasi, Romania
 Poster
168. *Application of the ecological footprint for assessing the impacts of construction and demolition waste on key
 resources and biodiversity*
 Maria Emiliană Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**
**Conference "Biodiversity and Society: Societal dimensions of the conservation and utilisation of
 biological diversity"**, 14th – 16th November 2012, Göttingen, Germany.
 Poster
169. *Environmental and economic evaluation of management systems for municipal solid waste*
 Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, **Maria Gavrilescu**
Global Conference on Global Warming-2012 (GCGW-12), July 8-12, 2012 Istanbul, Turkey
 Poster
170. *Evaluation of the contribution of the raw materials used in paper production to global warming* Madalina Petraru,
 Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilescu**
Global Conference on Global Warming-2012 (GCGW-12), July 8-12, 2012 Istanbul, Turkey
 Poster
171. *Studies of toxicity of Chromium(VI) and Cadmium(II) on some microbial species*
 Lucian Vasile Pavel, **Mariana Diaconu, Maria Gavrilescu**
5th International Symposium on Biosorption and Bioremediation,
 June 24 - 28, 2012, Prague, Czech Republic.
 Poster
172. *Analysis of the Environmental Impact of Water Scrubbing Technology Applied for Biogas Upgrading Based on
 LCA Methodology*
 Petronela Cozma, Walter Wukovits, Cristina Ghinea, Ioan Mămăligă, Anton Friedl, **Maria Gavrilescu**
The 20th European Biomass Conference and Exhibition, June 17-22, 2012, Milan, Italy.
 Oral communication
173. *Environmental assessment of municipal solid waste management systems using LCA and multicriteria
 evaluation*
 Ghinea C., Petraru M., Bressers Th.A.H., **Maria Gavrilescu**
The 20th European Biomass Conference & Exhibition 2012, June 18-22, 2012, Milan, Italy

Poster

174. *Studies on the fate and behaviour of some contaminants in soils as a prerequisite in bioremediation*
Maria Gavrilescu
Environmental Microbiology & Biotechnology in the frame of the knowledge Based Bio & Green Economy, EMB2012, April 10-12, 2012, Bologna, Italy.
Poster
175. *Chromium(VI) removal from aqueous solutions by Trichoderma viride fungal biomass*
Raluca Maria Hlihor, Mariana Diaconu, Teresa Tavares, **Maria Gavrilescu**
Environmental Microbiology & Biotechnology in the frame of the knowledge Based Bio & Green Economy, EMB2012, April 10-12, 2012, Bologna, Italy.
Poster
176. *Decolorization of Aqueous Effluents Using Agro Waste*
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilescu**
Environmental Microbiology and Biotechnology in the Frame of the Knowledge – Based Bio and Green Economy, April 10-12, 2012, Bologna, Italy.
Poster
177. *Application of ecological footprint as a measure of sustainability in construction building*
Maria Emiliană Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 25-27, 2012, Iasi, Romania
Poster
178. *Photocatalytic degradation of a hazardous food dye*
Laura Carmen Apostol, Anca Florentina Caliman, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection, International Conference - Centenary of Education in Chemical Engineering, 28-30 November 2012, Iasi, Romania
Poster
- 2011
179. *Assesment of sustainability based on LCA. Case of woody biomass*
Maria Emiliană Fortună, **Isabela Maria Simion**, **Maria Gavrilescu**
International Congress „Woodchem 2011”, Strasbourg, France, December 1-2, 2011
180. *Life cycle assessment of construction and demolition waste*
Isabela Maria Simion, Maria Emiliană Fortună, **Maria Gavrilescu**
INCD ECOIND, International Symposium „Environment and Industry”, Bucharest, November 16 – 18, 2011
181. *Assessing pollution prevention and waste management scenarios using specific sustainability indicators*
Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilescu**
INCD ECOIND, International Symposium „Environment and Industry”, Bucharest, November 16 – 18, 2011
182. *Ecological footprint of construction and demolition waste*
Isabela Maria Simion, Maria Emiliană Fortună, **Maria Gavrilescu**
9th International Congress of Young Chemists "YoungChem 2011" 12-16 October, Cracow, Poland
183. *Life cycle analysis a tool for assessing the environmental impact of solid waste*
Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilescu**
VI edition of the International Symposium, Present Environment and Sustainable Development, Iasi, October 14 - 16, 2011.
184. *Studies concerning the mechanism of sorption of Congo red on soil*
Smaranda Camelia, Mămăligă I., Bulgariu D., **Gavrilescu M.**
International Conference on Environmental Engineering and Management, ICEEM/06, Balatonalmadi, Hungary, September 1-4, 2011
185. *Analysis and Management of Specific Processes from Environmental Engineering and Protection Based on Sustainability Indicator*
Fortună M., Teslaru Simion I., Ghinea C., Petraru M., Fasolă Apostol L.C., Hlihor R.M., **Gavrilescu M.**
The 6th International Conference on Environmental Engineering and Management – ICEEM 06 Green Future, Balaton Lake, Hungary, September 1-4, 2011
186. *Bio(sorbent) based remediation in environmental pollution control*
Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilescu**
The 5th European Bioremediation Conference, July 4-7, 2011, Chania, Crete, Greece.

187. *Ecological footprint of pharmaceutical and cosmetic industries*
 Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilăscu**
The 10-th Romanian International Symposium on Cosmetic and Flavour Products "COSMETIC SCIENCE – LOOKING TO THE FUTURE", Iași, România, 31 May-3 June, 2011.
188. *Sustainability indicators in personal care products sector*
 Isabela Maria Simion, Maria Emiliană Fortună, **Maria Gavrilăscu**
The 10-th Romanian International Symposium on Cosmetic and Flavour Products "COSMETIC SCIENCE – LOOKING TO THE FUTURE", Iași, România, 31 May-3 June, 2011.
189. *Sustainable development indicators and environmental impact*
 Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilăscu**
European Exhibition of Creativity and Innovation, Iași, România, May12-14, 2011.
190. *Indicators for sustainability in industrial systems. Case study: paper manufacturing*
 Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilăscu**
International Conference of Applied Sciences. Chemistry and Chemical Engineering, fifth edition, University "Vasile Alecsandri" from Bacău, April 28 –30, 2011, Bacău, Romania.
191. *Sustainable development indicators a tool for pollution prevent*
 Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilăscu**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 28 – 29, 2011, Iasi, Romania
192. *Biogas Upgrading Using Water Scrubbing Technology*
 Petronela Cozma, Walter Wukovits, Anton Friedl, **Maria Gavrilăscu**
Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November 17-18, 2011, Iassy, Romania
193. *Analysis of Environmental Impact for Industry Products. Case Study: Paper Manufacturing*
 Petraru M., Ghinea C., Bressers H., **Gavrilăscu Maria**
Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November 17-18, 2011, Iasi, Romania
194. *Environmental comparison of solid waste management systems: A case study of the cities of Iasi, Romania and Enschede, Netherlands,*
 Ghinea C., Petraru M., Bressers H., **Gavrilăscu Maria**
National Conference "Days of the Faculty of Chemical Engineering and Environmental Protection", 8th Edition, "Innovative Materials and Processes", Iasi, Romania, 17-18 November 2011
195. *Use of sustainable indicators in solid waste management*
Isabela Maria Simion, **Maria Emiliană Fortună**, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, 8th Edition, November 17 – 18, 2011.
- 2010**
196. *Study of cadmium sorption on soils*
 Vasile Lucian Pavel, Raluca Maria Hlihor, Dumitru Bulgariu, **Maria Gavrilăscu**, Florian Statescu
International Symposium Control and Metrology of Environmental Quality Factors (IS.CMEQF-01), 23- November 27, 2010, Iasi, Romania.
197. *Thermodynamic study of Cd(II) sorption on soil*
 Raluca-Maria Hlihor, Petronela Cozma, Cristina Ghinea, Vasile Lucian Pavel, Brindusa Mihaela Robu, **Maria Gavrilăscu**
„Durable agriculture - present and perspectives” – the 53rd Scientific Conference, University of Agricultural Sciences and Veterinary Medicine, Faculty of Agriculture, 21st - 23rd of October, 2010, Iasi, Romania.
198. *Biosorption of cadmium (II) ions from simulated wastewaters by dried yeast biomass*
 Raluca Maria Hlihor, Mariana Diaconu, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilăscu**
The 3rd International Conference on Advanced Materials and Systems, INCDTP-INCPI, September 16-18, 2010, Bucharest, Romania.
199. *Agro Waste Used as Natural Sorbents for Acid Red 51 Uptakes*
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilăscu**
The 3rd International Conference on Advanced Materials and Systems, INCDTP-INCPI, September 16-18, 2010, Bucharest, Romania.

200. *Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous cadmium(II) ions by Saccharomyces cerevisiae*
Raluca Maria Hlihor, Mariana Diaconu, **María Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
201. *Bean husk used for Erythrosine B removal*
Laura Carmen Apostol, **María Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
202. *Airlift bioreactors for pulp and paper effluents treatment and management*
Petronela Cozma, **María Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
203. *The environmental behavior of pentachlorophenol in Iasi area soil*
Smaranda Camelia, Puițel Adrian, Măluțan Theodor, **Gavrilescu Maria**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
204. *Prognostic tools for assessment of alternative waste management scenarios*
Cristina Ghinea, **María Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
205. *Estimating the environmental benefits of pollution prevention practices*
Madalina Petraru, **María Gavrilescu**
The 14th International Symposium on Cellulose Chemistry and Technology, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
206. *Process in assessment of ecological and health risk induced by persistent organic pollutants*
Gavrilescu M., Robu B., Căliman A.F., Smaranda Camelia, Pavel V.L.
European Exhibition of Creativity și Innovation, EUROINVENT Iași, May 7-9, 2010
207. *Removal of CO₂ from gas streams in airlift reactors*
Petronela Cozma, **María Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19, 2010, Iași, România
208. *Influence of pH on Cr(VI) reduction and removal by Saccharomyces cerevisiae*
Raluca-Maria Hlihor, Mariana Diaconu, **María Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19, 2010, Iași, România
209. *Municipal Solid Waste Management -Environmental Assessment from Life Cycle Perspective*
Cristina Ghinea, **María Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19, 2010, Iași, România
210. *Transition towards a sustainable economy based on industrial ecology principles: Romanian case study*
Madalina Petraru, **María Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19, 2010, Iași, România
211. *Thermodynamic study of Cd(II) sorption on soil*
Raluca-Maria Hlihor, Petronela Cozma, Cristina Ghinea, Vasile Lucian Pavel, Brîndușa Mihaela Robu, **María Gavrilescu**
International Conference of "Durable Agriculture-Present and Perspectives", October 21-23, 2010, Iași, România

2009

212. *Behaviour of persistent pollutants and risks associated with their presence in the environment* **Gavrilăscu M.**, Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.
Exhibition Of The Romanian Research Realization – Research Salon – 2009, October 28 – 31, 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
213. *Bioavailability processes for contaminants in soils and their use in risk assessment*
Raluca Maria Hlihor, Laura Carmen Apostol, Camelia Smaranda, Vasile Lucian Pavel, Florentina Anca Căliman, Brîndușă Mihaela Robu, **Maria Gavrilăscu**
International Conference Of Environmental Engineering And Management – ICEEM 05, September 15-19, 2009, Tulcea, Romania.
214. *Analysis of factors determining the behaviour of chromium in some romanian soils*
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **Maria Gavrilăscu**
International Conference Of Environmental Engineering And Management – ICEEM 05, September 15-19, 2009, Tulcea, Romania.
215. *Studies on sorption and transport processes of cadmium in soils*
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **Maria Gavrilăscu**
International Conference Of Environmental Engineering And Management – ICEEM 05, September 15-19, 2009, Tulcea, Romania.
216. *Potential benefits and threats of emerging technologies for soil and groundwater cleanup*
Gavrilăscu M., Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L.
The XIII International Conference of Invention „Performant and Inovative Research and Technologies” June 4-6, 2009
217. *Behaviour of persistent pollutants and risks associated with their presence in the environment*
Gavrilăscu M., Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.
Exhibition of the Romanian Research Realizations – Research Salon – 2009, October 28 – 31, 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
218. *Pneumatic (bio)reactors applied in environmental protection*
Petronela Cozma, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 18-20, 2009, Iași, România
219. *Models for sustainable waste management*
Cristina Ghinea, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 18-20, 2009, Iași, România
220. *Overview on the economic assessment of pollution prevention/cleaner production practices*
Madalina Petraru, Maria Gavrilăscu
Days of the Faculty of Chemical Engineering and Environmental Protection, November 18-20, 2009, Iași, România

2008

221. *Comparative experimental study of Cd(II) sorption on natural and synthetic sorbents (in Romanian)*
Raluca Maria Hlihor, Lucian Vasile Pavel, Anca Florentina Caliman, Igor Crețescu, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008, Iași, România
222. *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*
Florentina Anca Caliman, Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008, Iași, România
223. *Sorption studies of some heavy metals (CrVI and CdII) on natural soils (in Romanian)*
Lucian Vasile Pavel, Raluca Maria Hlihor, Camelia Smaranda, Florentina Anca Căliman, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008, Iași, România
224. *Study of Pentachlorophenol Sorption on a Natural Clay as Sorbent*
Laura Carmen Apostol, Camelia Smaranda, Florentina Anca Căliman, Igor Crețescu, **Maria Gavrilăscu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008, Iași, România

225. *Study concerning the sorption of textile azo dye Orange II on soil particles*
Camelia Smaranda, Laura Carmen Apostol, Lucian Vasile Pavel, Florentina Anca Căliman,
Maria Gavrilesco
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008,
Iași, România
226. *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*
Florentina Anca Caliman, Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilesco**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21, 2008,
Iași, România
- 2007**
227. *Comparative study of Cr(VI) removal from aqueous solutions using new sorbents and Purolite A400 resin*
Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zabolis, Igor Cretescu, **Maria Gavrilesco**
International Conference BENA, Belgrad, November 2007.
228. *Simulation of transport and behaviour of some persistent organic pollutants in soils*
Camelia Bețianu, Roxana Mai, Florina Ungureanu, **Maria Gavrilesco**
International Conference ***Romanian Agriculture in EU: Opportunities and Perspectives***, October 18-19,
007, Iași, Romania.
229. *Partition and sorption of heavy metals to soils*
Camelia Bețianu, Loredana Brînză, Vasile Lucian Pavel, **Maria Gavrilesco**
International Conference ***Romanian Agriculture in EU: Opportunities and Perspectives***, October 18-19,
2007, Iași, Romania.
230. *Cr(VI) Removal from aqueous solutions by an epichlorohydrin / polyethylene-imine resin*
Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zabolis, Igor Cretescu, **Maria Gavrilesco**
4th International Conference on Environmental Engineering and Management, September 12-15,
2007, Iasi, Romania
231. *Application of advanced oxidative processes for degradation of commercial dyes in aqueous solutions*
Florentina Anca Căliman, Camelia Bețianu, Ioannis Poulis, **Maria Gavrilesco**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 26-27 (2007).
232. *Degradation of Orange II from aqueous solutions through photocatalytic processes*
Camelia Bețianu, Florentina Anca Căliman, **Maria Gavrilesco**, Ioannis Poulis
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 26-27 (2007).
233. *Studies on Cr (VI) removal from water using a synthetic anionic resin*
Lucian Vasile Pavel, Panagiotis Misaelides, Dimitrios Zabolis, Igor Crețescu,
Maria Gavrilesco
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
234. *Pollution prevention in chemical industry through process integration*
Oana Marlena Penciu, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry, 18 -19 January (2007).
235. *Biotechnology in environmental protection – bioremediation/treatment of environmental components contaminated with heavy metals*
Loredana Brînză, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi,
Romania
236. *Natural adsorbents – possibilities for application for the remediation of some environmental components affected by pollution phenomenon*
Daniela-Ionela Tudorache, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi,
Romania
237. *Options for process integration for pollution prevention*
Oana Marlena Penciu, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi,
Romania
238. *Comparative study of homogeneous photocatalytic degradation of Alcian Blue 8 GX and Orange II dyes*
Camelia Bețianu, Anca Căliman, Ioannis Poulis, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi,
Romania

239. *Study of the influence of certain parameters on heterogeneous photocatalytic degradation of Alcian Blue 8 GX and Orange II dyes*
Anca Căliman, Camelia Bețianu, Ioannis Poullos, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
240. *Selective collection of electric and electronic waste in Iasi city*
Ana-Maria Șchiopu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
- 2006
241. *Remediation of soils polluted with radioactive compounds*
Lucian Pavel, **Maria Gavrilesu**, Igor Cretescu
3rd ***International Conference on Environmental Engineering and Management***, September 23-26, 2006, Iasi, Romania
242. *Strategies for chemical process integration and changes for pollution prevention and wastewater recycling*
Maria Gavrilesu, Carmen Teodosiu, Dan Gavrilesu, Luminita Lupu
International Symposium on Environmental Biotechnology, Leipzig 2006, July 9-14, 2006
- 2005
243. *Studies on heavy metals biosorption on marine algae*
Otilia Brînză, Loredana Brînză, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry, 23-25 November 2005, Iasi, Romania
244. *Ecological footprint- tool for sustainability in Romania*
Diana Maria Ilie, Nicolae Peiu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry, 23-25 November 2005, Iasi, Romania
245. *Proactive environmental strategies through cleaner production*
Maria Gavrilesu
9th ***International Conference on Environmental Science and Technology***, Rhodes Island, Grecia, september 1-3, 2005
246. *Ability of different algal species to take up heavy metals from wastewater.*
Loredana Brinza, Matthew J. Dring, **Maria Gavrilesu**.
Annual Meeting of British Phycological Society, University of Birmingham, United Kingdom, January 5-7, 2005.
- 2002
247. *Studies on heavy metals removal by biosorption*
L. Brînză, **Maria Gavrilesu**
The Third Conference of the Faculty of Industrial Chemistry, Iasi, Romania, 13-15 November (2002).
248. *Studies on the depollution of gaseous fluxes containing VOCs*
O. Penciu, **Maria Gavrilesu**
The Third Conference of the Faculty of Industrial Chemistry, Iasi, Romania, 13-15 November 2002
- 1998
249. *Pneumatic Bioreactors in Industrial Bioprocesses and Environmental Protection*
Maria Gavrilesu, Matei Macoveanu
The 9th Symposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
250. *Bioreactors with Immobilized Microorganisms for Wastewater Biological Treatment*
Maria Gavrilesu, Matei Macoveanu
The 9th Symposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
251. *Heat Transfer in Bioprocesses*
Maria Gavrilesu, Rodica Viorica Roman
The 9th Simposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
- 1996
252. *Separation by microfiltration and ultrafiltration and concentration by reverse osmosis applied in biochemical processes*
Maria Gavrilesu, Rodica Viorica Roman, Radu Z. Tudose
International Symposium Drug Research Between Information and Life Science, October 3-4, 1996, Bucharest, Romania
253. *Relationship between Momentum, Heat and Mass Transfer in Industrial Bioreactors and Penicilin Biosynthesis*
Rodica Viorica Roman, **Maria Gavrilesu**, Radu Z. Tudose
International Symposium Drug Research Between Information and Life Science, October 3-4, 1996, Bucharest, Romania.

- 254 *Momentum, Heat and Mass Transfer in Microbial Cultures in Airlift Bioreactors*
Maria Gavrilescu, Radu Z. Tudose, Rodica Viorica Roman
The 4th International Symposium: Biotechnology Today and Tomorrow, September 26-27, 1996, Bucharest, Romania.
- 255 *Mass Transfer Characteristics of Rushton Modified Turbines*
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilescu**
The 4th International Symposium: Biotechnology Today and Tomorrow, September 26-27, 1996, Bucharest, Romania.
- 1995
- 256 *Biosynthesis of Some Antibiotics in Industrial Bioreactors with Modified Impellers*
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilescu**, Minodor Cojocaru
Symposium 40 Years of Industrial Biosynthesis of Drugs in Romania, 8-9 December (1995). , Iasi, Romania.
- 257 *Antibiotic biosynthesis investigation in airlift bioreactors.*
Maria Gavrilescu, Rodica Viorica Roman **International Symposium Modelling for Improved Bioreactor Performance III**, September 21-22, 1995, Braşov, Romania.
- 258 *Performance of Pilot and Industrial Scale Bioreactors with Modified Rushton Turbine Agitators*
Rodica Viorica Roman, **Maria Gavrilescu**
International Symposium Modelling for Improved Bioreactor Performance III, September 21-22, 1995, Braşov, Romania.
- 1994
- 259 *Residence Time Distribution in an Airlift Reactor*
Radu Z. Tudose, **Maria Gavrilescu**
The Conference of the Faculty of Industrial Chemistry: Progresses in Chemistry and Chemical Technology, Iasi, Romania, 13-15 November (1994).
- 1989
- 260 *Oxygen Mass Transfer in Stirred Tank Bioreactors. I. Oxygen Mass Transfer in Non-Newtonian Liquids*
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Virginia Asandului
7th Symposium on Industrial Microbiology and Biotechnology, Galaţi, Romania, 8-9 September, 1989.
- 261 *Oxygen Mass Transfer in Stirred Tank Bioreactors. II. Oxygen Mass Transfer in Newtonian Liquids*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Liviu Cârligeanu
7th Symposium on Industrial Microbiology and Biotechnology, Galaţi, Romania, 8-9 September, 1989.
- 262 *Studies on the Rheological Behaviour of Some Antibiotic Biosynthesis Liquids*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciuc, Virginia Asandului
8th Session of Communications "Actualities in Antibiotic Research, Production and Use", Research Center for Antibiotics, Iasi, Romania, 25-26 May, 1989.
- 263 *Effect of bioreactor and stirrer geometry on mixing power consumption*
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Sabin Ionescu, Alexandru Pintilie, Alexandru Pascal
8th Session of Communications "Actualities in Antibiotic Research, Production and Use", Research Center for Antibiotics, Iasi, Romania, 25-26 May, 1989.
- 264 *Some Aspects Regarding the Rheology of Antibiotic Biosynthesis Liquids.*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciuc, Virginia Asandului
International Symposium INTERBIOTECH'89, 28-30 June 1989, Bratislava, Tschechoslovakya
- 265 *Mass Transfer and gas-liquid dispersion in an external recycling (airlift) bioreactor.*
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Virginia Asandului
International Symposium INTERBIOTECH'89, 28-30 June, 1989, Bratislava, Tschechoslovakya.
- 1988
- 266 *Evaluation of the power input for liquid mixing*
Maria Gavrilescu, Rodica Viorica Roman, Vasile Efimov, Alexandru Sauciuc, Sabin Ionescu
The 6th Symposium on Industrial Microbiology and Biotechnology, Galati, Romania, September, 1988.
- 267 *Turbine Impellers for Antibiotic Industry*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal
Symposium: Days of Iasi Antibiotics Plant, Iasi, Romania, December 1988.

- 268 *Mass Transfer in Airlift Bioreactors*
Rodica Viorica Roman, **Maria Gavrilesu**
Technical-Scientific Communications Session for Young Specialists, Braşov, Romania, November, 1988)
- 269 *Unconventional Bioreactors for Antibiotic Biosynthesis*
Rodica Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal, Gheorghe Neacşu
Third National Congress on Chemistry, Bucharest, Romania, 21-24 September, 1988.
- 270 *Optimization of the Operation Conditions for a Bioreactor*
Maria Gavrilesu, Rodica Viorica Roman, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal, Matei Macoveanu **Third National Congress on Chemistry**, Bucharest, Romania, 21-24 September, 1988.
- 1987
- 271 *Studies on the Influences of Liquid Phase Properties on Oxygen Dissolution Rate*
Maria Gavrilesu, Rodica Viorica Roman
The 7th Symposium of Scientific Communications, Research Center for Antibiotics, Iaşi, May, 1987)
- 272 *Gas-Liquid Mass Transfer and Dispersion Characteristics in a Column Bioreactor with External Recirculation*
Rodica Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciu, Virginia Asandului, Alexandru Pintilie, Alexandru Pascal
The 7th Symposium of Scientific Communications, Research Center for Antibiotics, Iaşi, May, 1987).
- 273 *Oxygen Mass Transfer in a Deep Jet Bioreactor*
Maria Gavrilesu, Rodica Viorica Roman, Alexandru Pintilie, Alexandru Pascal, Ion Vornicu, Gheorghe Jalencu, Alexandru Sauciu
The 7th Symposium of Scientific Communications, Research Center for Antibiotics, Iaşi, May, 1987).
- 1986
- 274 *Mixing. Flowing Models for Agitated Liquids*
Rodica Viorica Roman, **Maria Gavrilesu**
Conferences and Communications, Research Center for Antibiotics Iasi, Romania, May, 1986.
- 275 *Biosynthesis of Bacitracin in a Bioreactor with Static Mixers.*
Maria Gavrilesu, Rodica Viorica Roman, Eugen Iluc, Gheorghe Neacşu
The 4th Symposium on Biotechnology, 26-31 May, 1986, Varna, Bulgaria
- 276 *Oxygen Transfer in a Bioreactor with Static Mixers*
Rodica Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciu
The 4th Symposium on Biotechnology, 26-31 May, 1986, Varna, Bulgaria
- 1985
- 277 *Reuse of heat resulted during veterinary antibiotic biosynthesis*
Alexandru Sauciu, Rodica Viorica Roman, **Maria Gavrilesu**
CAER Meeting, Iasi, Romania, April, 1985.
- 278 *Recuperation of the Biological Heat with Heat Pumps*
Alexandru Sauciu, Rodica Viorica Roman, **Maria Gavrilesu**
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 279 *Bacitracin Biosynthesis in an External Loop Fermentor Column Type*
Maria Gavrilesu, Rodica Viorica Roman, Alexandru Sauciu, Eugen Iluc, Gheorghe Neacşu, Alexandrina Dorobăţ, Magda Comănescu, Liliana Bulgaru, Ana Mustea
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 280 *Static Mixers Effect on Mass Transfer in an External Loop Fermentor Column Type*
Maria Ionescu, Rodica Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciu, Teodor Rez, Constantin Poncu, Alexandru Pintilie
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 1984
- 281 *Mass Transfer in a Column Bioreactor with Static Mixers*
Alexandru Sauciu, Constantin Poncu, **Maria Gavrilesu**, Rodica Viorica Roman, Alexandru Pascal, Alexandru Pintilie
Symposium: 35 Years of the Chemical-Pharmaceutical Research Institute, Bucharest, Romania, 25-26 October, 1984.

- 282 *Studies on Mass Transfer in Fermentation Processes*
Maria Gavrilesu, Rodica Viorica Roman
Conferences and Communications, Research Center for Antibiotics Iasi, Romania, May, 1984.

Patents

- 2018** *Procedure for obtaining biocomposite materials intended for the construction and functional elements of europallets (Procedeu de obținere a unor materiale de tip biocompozit destinate realizării elementelor constructive și funcționale ale europaletilor)*
Autori: **Gavrilesu Maria**, Crețescu Igor, Maluțan Teodor, Smaranda Camelia, Puitel Catalin, Ghinea Cristina, Hlihor Raluca, Cozma Petronela, Simion Isabela, Comanita Elena-Diana, Rosca Mihaela
Patent application, Nr. Reference 5192/21.05.2018; Registration Nr. at OSIM: **A 2018 00361**
- 2002** *Gaz-lift reactor for the study of flow and mixing*
Authors: R.Z. Tudose, **Maria Gavrilesu**
Brevet RO 117650/15.04.2002.
Derwent Innovations Index: 2002-505931
- 2000** *Procedure for purification of NaOH solutions*
Authors: **Maria Gavrilesu**, R.V. Roman, S. Luca, M. Păduraru
Brevet RO/1034011/20.09.2000
Derwent Innovations Index: 2001-022229
- 1996** *Procedure for filtration of antibiotic biosynthesis liquids*
Authors: Rodica-Viorica Roman, Vasile Efimov, **Maria Gavrilesu**, Marta Păduraru, Dana Pamfil
Brevet RO No. 111248/1996.
Derwent Innovations Index: 1997-243336
- 1996** *Procedure for filtration of biosynthesis liquid of Rifamycin B*
Authors: Rodica-Viorica Roman, Vasile Efimov, **Maria Gavrilesu**, Marta Păduraru, Dana Pamfil
Brevet RO No. 111251/1996.
Derwent Innovations Index: 1997-243338
- 1996** *Gas-lift reactor*
Authors: **Maria Gavrilesu**, Rodica-Viorica Roman, Elisaveta Marciuc, Constanța Diaconu, Alexandru Pintilie, Alexandru Sauciuc
Brevet RO No. 110410 B1/1996.
Derwent Innovations Index: 1996-400155
- 1994** *Dryer with belt*
Authors: Radu Z. Tudose, **Maria Gavrilesu**, Stelian Petrescu, A. Pop, A.Vulkan,
Brevet No. 109204 din 20.08. 1994.
- 1991** *Column for separation of some components from a solution*
Authors: Radu Z. Tudose, Alexandru Sauciuc, Stelian Petrescu, Evghenia Ursescu, Rodica-Viorica Roman,
Maria Gavrilesu
Brevet RO No. 101062/1991.
- 1990** *Procedure and equipment for separation of some components from a solution in discontinuous operation mode*
Authors: Radu Z. Tudose, Liviu Popovici, Alexandru Sauciuc, **Maria Gavrilesu**, Rodica-Viorica Roman
Brevet RO No. 102196/1990
Derwent Innovations Index: 1993-098433
- 1989** *Open turbine impeller for heterogeneous systems*
Authors: Alexandru Sauciuc, Rodica-Viorica Roman, **Maria Gavrilesu**, Alexandru Pintilie, Alexandru Pascal, Marta Păduraru, Domenian Dulcescu
Brevet RO No. 99730/1989.
Derwent Innovations Index: 1991-175586
- 1989** *Bioreactor for antibiotics biosynthesis*
Authors: Maria Ionescu, Rodica-Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Savel Matache, Teodor Rez.
Brevet No. 98240/1989.

1987 *Liquid-liquid extraction column with pulsatory operation*
Authors: Radu Z. Tudose, Alexandru Sauciuc, **Maria Gavrilesco**, Rodica-Viorica Roman, Leocadia Jipa, Alexandru Pintilie, Ileana Ciobanu
Brevet RO No. 92828/1987.
Derwent Innovations Index: 1988-041060

1987 *Liquid-liquid extraction column*
Authors: Radu Z. Tudose, Alexandru Sauciuc, Rodica-Viorica Roman, **Maria Gavrilesco**, Leocadia Jipa, Alexandru Pintilie, Ileana Ciobanu,
Brevet RO No. 92880/1987.
Derwent Innovations Index: 1988-103387

Research programs with industrial companies

Project director

- 2006** *Report of Security* (2006), beneficiary: SC Storsack SA Botosani, Romania
- 1999** *Studies on the possibility of intensification of hydrodynamic parameters in relation with mass transfer for some bioreactors of SC Antibiotice SA Iasi* (1999), beneficiary: SC Antibiotice SA Iasi, Romania
- 1999** *Rheology of biosynthesis liquids* (1999), beneficiary: SC Antibiotice SA Iasi, Romania
- 1994** *Optimization of hydrodynamic and mass transfer conditions in industrial bioreactors for Erythromycin-Nystatin biosynthesis.* Technical assistance for implementation of a new technology for penicillin G separation/purification (1994), beneficiary: SC Antibiotice SA Iasi, Romania
- 1992** *Improvement of hydrodynamic, mass transfer and energetic characteristics of some bioreactors through modifications of impeller blades* (1992), beneficiary: SC Antibiotice SA Iasi, Romania
- 1991** *Separation and purification of butanol from the homogeneous system butanol-water resulted from the fabrication process of Penicillin*, 1991, beneficiary: SC Antibiotice SA Iasi, Romania.
- 1991** *Characterization of the industrial bioreactors R2 - Section I-a - S.C. Antibiotice S.A. Iasi* from geometrical, operational and biosynthesis performances points of view, with conventional and modified turbine impellers, 1991, beneficiary: SC Antibiotice SA Iasi, Romania.
- 1989-1990** *Study of solid-liquid separation applied on biosynthesis liquids and their processing (yield of the active substance, 1989-1990, beneficiary: Antibiotics Plant, Iasi, Romania*
- 1989** *Characterization of some bioreactors from "Biostimulatori" sector, considering power input and mass transfer characteristics, 1989, beneficiary: Antibiotics Plant, Iasi, Romania*
- 1983-1990** *Unconventional fermenters for antibiotic biosynthesis, 1983-1990, beneficiary: Antibiotics Plant, Iasi, Romania.*

Member of research groups

- 2000** *Environmental impact study for the objective: Modernization and relocation of the technological line for vegetable oil packing in PET bottles, 2000, beneficiary: SC Unirea SA Iasi, Romania*
- 1999** *Environmental evaluations by balances, 1999, SC Petrom SA, Vaslui, Romania*
- 1996** *Optimized technology for Vitamin B12 biosynthesis, 1992, beneficiary: Antibiotics Plant, Iasi, Romania.*
- 1996** *Technology for Streptomycin biosynthesis, 1996, beneficiary: Antibiotics Plant, Iasi, Romania.*
- 1994** *Improving the biosynthesis and separation/purification yields through laboratory selection and ingredients dosage, 1994, beneficiary: Antibiotics Plant, Iasi, Romania.*
- 1993** *Research and technical assistance for implementing new technologies (Erythromycin, Penicillin, Vitamin B12), 1993, beneficiary: Antibiotics Plant, Iasi, Romania.*

- 1991** *Bacitracin 10% - Optimized technology, 1991, beneficiary: Antibiotics Plant, Iasi, Romania*
- 1988-1990** *Optimized technology for Penicilin G, 1988-1990, beneficiary: Antibiotics Plant, Iasi, Romania.*
- 1987-1990** *Optimized technology for Sinerdol, 1987-1990, beneficiary: Antibiotics Plant, Iasi, Romania*
- 1984-1986** *Improved technology for Sinerdol production, 1984-1986, beneficiary: Antibiotics Plant, Iasi, Romania*

Research Grants

National grants

Director of grants

- 2017-2019** *Exploring and Exploiting Microbial and Plant Abilities and Interactions in Environmental Bioremediation (BIOREMIP)*
PN-III-P4-ID-PCE-2016-0683, Contract 65/12.07.2017
 30 months, 849.500 lei
- 2016-2018** *Strategies and solutions for process and product eco-design and eco-innovation based on recyclable materials in the context of circular economy (ECOINDE)*
PN-III-P2-2.1-BG-2016-0130
 24 months, 458000 lei
- 2012** *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop*
PN-II-ID-WE-2012-4-062, contract 60/16.08.2012
 24000 Lei
- 2011-2016** *Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants (BIOSACC)*
IDEI Programme, PN-II-ID-PCE-2011-3-0559, contract 265/5.10.2011
 Duration: 60 months, 134000 lei
- 2007-2010** *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment (PERSENVIR)*
Programme IDEI, grant ID_595, contract 132/01.10.2007 (2007 -2010)
 Duration: 36 months, 983000 Lei
- 2006** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*
Grant CNCISIS A, Contract A1/GR 164/19.05.2006, Cod 511, theme 36
 32500 RON
- 2005** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*
Grant CNCISIS A, Contract 34664/24.06.2005, Cod 511, theme 27
 225 mil. Lei
- 2004** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*
Grant CNCISIS A, Contract 33371/2004, Cod 511, theme 23 si theme 13
 130 mil. Lei
- 2003** *Modelling and simulation of some processes for depollution of fluid fluxes, in relation with transfer phenomena*
Grant CNCISIS A, Contract 33557/2003, Cod 317, theme 21
 67500 mii lei
- 2002** *Modelling and simulation of some processes for depollution of fuid fluxes, in relation with transfer phenomena*
Grant CNCISIS A, Contract 33479/2002, Cod 385, theme 18
 50 000 mii lei
- 2001** *Modelling and simulation of some processes for depollution of fuid fluxes, in relation with transfer phenomena*

Grant CNCISIS A, Contract 32259/2001, Cod 305, theme 25

42400 mii lei

- 2000** *Earth Day 2000*
Grant No. 27E107/2000,
Funded by the Ecumenic Association of Romanian Churches – AIDRom
- 1997-1998** *Research on performance evaluation, scale up and energetic efficiency of some unconventional reactors for antibiotic biosynthesis* (1997 -1998), beneficiary: Ministry of Science and Technology
- 1996-1998** *Research on obtaining, physico-chemical characterization and optimization of the characteristics of biosynthesis liquid components* (1996) -1998, beneficiary: Ministry of Science and Technology
- 1992-1997** *Separation processes in antibiotics industry* (1992). -1997, beneficiary: Ministry of Science and Technology
- 1992-1997** *Transfer phenomena in polydisperse systems* (1992). -1997, beneficiary: Ministry of Science and Technology
- 1991** *Investigation on specific engineering parameters for cultivation of microorganism for antibiotic biosynthesis and their individualization at laboratory-pilot-industrial scales*, 1991, beneficiary: Department of Chemical and Petrochemical Industry, Ministry of Industries

Member of research groups

- 2017-2019** *Utilization of biomass wastes from biofuel production in heavy metals biosorption processes with applications in environmental bioremediation*
PN-III-P4-ID-PCE-2016-0500
30 months, 850000 lei, Director: Dr. habil. Laura Bulgariu
- 2017-2018** *Modeling of pesticide dynamics in plant products and estimation of risks to human health (MODPEST)*,
PN-III-P2-2.1-PED-2016-1662, Contract nr. 10PED/2017
18 months, 595.000 lei, Director: Dr. Raluca Maria Hlihor
- 2006-2008** *Integrated network for sustainable management of water resources, SIWMANET*
EXCELENCE GRANT, Module II project, director Prof. C. Teodosiu, "Gheorghe Asachi" Technical University of Iasi, Romania.
Contract 115/01.08.2006. (2006). -2008, 115000 RON, director: prof. Carmen Teodosiu
- 2006** *Formation of human resources-Projects management*
EXCELENCE GRANT, Module III, Course provider: Department of Programmes, "Gheorghe Asachi" Technical University of Iasi, Romania, beneficiary: SC Rulmentul SA Barlad, Romania (2006). -2007, contract 6150/2006, 18000 RON, Director, conf. Dumitru Nedelcu
- 2006** *Formation of human resources-Projects management*
EXCELENCE GRANT, Module III, Course provider: Department of Programmes, "Gheorghe Asachi" Technical University of Iasi, Romania, beneficiary: SC Antibiotice SA Iasi, Romania (2006). -2007, contract 6151/2006, 18000 RON, Director: conf. Dumitru Nedelcu
- 2005-2008** *Experimentation and improvement of the technology of biological improvement of apple plantations, in the view of a favorable environmental and health impact*,
EXCELENCE GRANT, Module I, 2005-2008 Cod MEC: PC-D02-PT00-598, contract 26/2005, 1.156.000 RON Coordinator: Institute for Biological Research Iasi, Director: dr.biol. Alecu Diaconu subcontract UTI 4/2005, Responsible: Lecturer dr. biol. Mariana Diaconu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2005-2008** *Technologies for advanced treatment of industrial effluents for recycling - RIWA-TECH, 2005-2008*
EXCELENCE GRANT, Module I, Cod MEC: PC-D06-PT25-153, contract 62/03.10.2005,
Director: Prof.dr.eng. Carmen Teodosiu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2004-2006** *Reduction of the content of mycotoxins from mais by applying different crop protection technologies*
Program AGRAL, Contract 363/2004-2006
Contract 363/2004-2006, 200000 RON, Partener UTI: 100.000 RON
Director: Lecturer dr.biol. Mariana Diaconu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2006** *Eco-design of processes, products and services in connexion with environmental components, in the context of sustainable development*
Grant CNCISIS A, Contract 63 GR/19.05.2006, cod CNCISIS 288, theme 17

Director: prof. Matei Macoveanu, Membru în echipa de cercetare
35000 RON

- 2005** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCSIS A, Contract 34664/24.06.2005, Cod 774, theme 35
Director: Prof. dr.eng. Matei Macoveanu
175 mil. lei
- 2004** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCSIS A, Contract 33371/2004, Cod 774, theme 63 si theme 23
100 000 mii lei + 30 000 mii lei suplement
Director: Prof. dr. eng. Matei Macoveanu
- 2003** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCSIS A, Contract 40222/2003, Cod 316, theme 13
82 500 mii lei
Director: Prof. dr. eng. Matei Macoveanu

International Grants

Member of research groups

- 2014-2016** **EEA Financial Mechanism 2009 - 2014** under the project "Towards a better protection of children against air pollution threats in the urban areas of Romania" contract no. 20SEE/30.06.2014 (Romania-Norway), Member of the research group of the Romanian partner
- 2008-2011** *Recovered paper sorting with innovative technologies-SORTIT*,
Project FP7, coordonator, Germania, Grant agreement no.: 211888, 245000 Euro
Member of the parner group "Gheorghe Asachi" Technical University of Iasi, Romania, Responsible:
Prof. Elena Bobu
- 2007** *Some effects of high-frequency electromagnetic radiations used in radio communication on the cultivated plants growing*
Grant (B.EN.A.) – COSMOTE/2007
Beneficiary : COSMOTE Grecia, B.EN.A. International, Valoare: 3900 Euro, director of project: Conf. Igor Crețescu
- 2005-2007** *Management and security assesment for sustainable environment*,
Grant SOCRATES /MOD
MASS, 51388-IC-2004-RO-ERASMUS-MODUC-6, 2005-2007, 8000 Euro (24 luni), director UTI C.Teodosiu
- 2002-2007** *Knowledge transfer and institutional capacity building for cleaner production in Romania*
Grant finantat de Swedish Institute Stockholm (2002-2007), Director program: Thomas Lidqvist, IIIIEE Lund, Suedia, director TUI: prof. Matei Macoveanu
- 2003-2005** *Improving science shop networking*
Proiect FP5, Program ISSNET/EU, Proiect No. HPRP-CT-2002-00011 2003 - 2005, Director grant: Caspar de Bok, Utrecht University, Olanda, director TUI: prof. Carmen Teodosiu

Products and tehnologies as result of research, based on patents, type-approvals or innovations, applied in the production process

1. *Optimized technology for B12 vitamin production*
Beneficiary: S.C. Antibiotice S.A. Iași
2. *Tehnology for streptomycin biosynthesis*
Beneficiary: S.C. Antibiotice S.A. Iași
3. *Bacitracin 10% - Optimized technology*
Beneficiar: S.C. Antibiotice S.A. Iași
4. *Optimized technology for Penicillin G*
Beneficiary: S.C. Antibiotice S.A. Iași

5. *Optimized technology for Sinerdol*
Beneficiary: S.C. Antibiotice S.A. Iași
6. *Open turbine impeller for heterogeneous systems*
Beneficiary: S.C. Antibiotice S.A. Iași
7. *Procedure for filtration of antibiotic biosynthesis liquids*
Beneficiary: S.C. Antibiotice S.A. Iași
8. *Procedure for purification of NaOH solutions*
SC Antibiotice SA Iași, Centrul de Cercetări pentru Antibiotice, Iași

Organizer of conferences, workshops, member in scientific committees

2019

International Conference on Environmental Engineering and Management, ICEEM10, Iasi, 18-21 September 2019

International Symposium „Energy and Environment”, 15 November 2019, Cluj-Napoca, Romania

Euroinvent 2019, 16-18 May 2019, Iasi, Romania, <http://www.euroinvent.org/committees/scientific-committee/>

2018

ELSEDIMIA 2018, 17-19 May, 2018, Cluj-Napoca, <http://www.elsedima.ro/index.php?page=static&pageid=120>

Euroinvent 2018, 17-19 May 2018, Iasi, Romania, <http://www.euroinvent.org/cat/e2018.pdf>

SICHEM 2018, 6-7 September 2018, Bucharest, Romania, http://sizr.ro/wp-content/uploads/2018/06/Second-Announcement-SICHEM_2018-GI-1.pdf

ICCE 2018, 4th International Conference on Chemical Engineering (ICCE 2018) - Innovative Materials and Processes for a Sustainable Development, 31 October-2 November, 2018, Iasi, Romania, <http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2018/committees.html>

7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), 25-28 June, Crete, Greece <https://www.ebc-vii.tuc.gr/en/committees/scientific-committee/>

2017

1. **Conference on Sustainable Energy, CSE**, 2017, October 19-21, Brasov, Romania
2. **International Conference on Environmental Engineering and Management, ICEEM09**, Bologna, Italy, 6-9 September 2017
3. **8th International Conference on Energy and Environment, CIEM 2017**, 18-20 October 2017, University Politehnica of Bucharest, Romania.

2016

4. **2016 ISEB Conference** (International Society for Environmental Biotechnology, <http://www.iseb2016.com>), June 1st to 3rd, 2016, Barcelona, Spain.
5. **FBASM 2016**, Faculty of Biology, "Alexandru Ioan Cuza" University of Iași, Romania, October 20-22, 2016. <http://www.bio.uaic.ro/sesiune/2016/pages/organization.html>
6. International Conference – **Towards a Sustainable Urban Environment (EBUILT-2016)**, marking 75 years of Civil Engineering higher education in Romania, "Gheorghe Asachi" Technical University of Iasi, 16-19 November, 2016
7. **SICHEM 2016**, 8-9 September, Bucharest, Romania
8. **ICCE 2016, International Conference on Chemical Engineering**, Iasi, Romania, 2016
9. **Energy and Environmental Knowledge Week Congress E2KW**, 26-28 October, 2014, Paris

2015

10. **The 7th International Conference on Energy and Environment**, CIEM 2015, 22-23 October, Iasi, Romania
11. Fall Scientific Session of the Academy of Romania Scientists „**The role of academic institutions in the renaissance and development of economic, social and cultural Romania**” 24-26 September, 2015 Iasi, Romania
12. **8th International Conference on Environmental Engineering and Management**, Iasi, 9-12 September, 2015
13. 11th International Conference **Constructive and Technological Design Optimization in the Machines Building Field** OPROTEH 2015, 4-6 June 2015, Bacau, Romania
14. **6th European Bioremediation Conference**, 29 June -2 July 2015, Chania, Crete, Greece
15. 10th National Symposium with International Participation “**Environment and Progress**” 29-30 October 2015, University Babes Bolyai of Cluj Napoca, Romania.

2014

16. **4th International Symposium on Environmental Biotechnology and Engineering**, 9-12, September 2014, Cinvestav, Mexico City, Mexico
17. 2nd International Conference on Chemical Engineering, **ICCE2014**, 5-8 November 2014, Iasi, Romania
18. **Conference for Sustainable Energy** (CSE), 6-8 November 2014, Brasov, Romania
19. 3rd International Conference, **Advances In Engineering & Management**, 11-12 September 2014, Craiova, Romania
20. Second International Conference on Natural and Anthropic Risks, **ICNAR2014**, 4-7 June 2014, Bacau, Romania
21. 10th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, **ELSEDIM**, 18-19 September 2014, Cluj-Napoca, Romania

2013

22. 7th International Conference on Environmental Engineering and Management “**Integration Challenges for Sustainability**” Vienna, 18-21 September, 2013
23. Conference CIEM 2013, „**Green and Smart Energy**”, Bucharest, University Polytechnica, 7-8 November, 2013
24. 9th National Symposium with International Participation “**Environment and Progress**” 25 October 2013, University Babes Bolyai of Cluj Napoca, Romania, <http://enviro.ubbcluj.ro/evenimente/environment&progress%202013.php>
25. **ESEIA Summer School, Sustainable Smart Metropolitan Regions**, 15 – 28 July 2013, Transilvania University of Brasov, Romania
26. **8th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2013**, September 22-27, Dubrovnik, Croatia.
27. **The First International Conference 3E – Energy, Environment and Efficiency, IWEEE 2013**, Galati, Romania, 18-21 September 2013. <http://www.iweee.ugal.ro/index.php/committees>

2012

28. **Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop**, September, 19-21, 2012, Iasi, Romania
29. **100th Anniversary of Faculty of Chemical Engineering and Environmental Protection**, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
30. **First International Conference on MOLDAVIAN RISKS - FROM GLOBAL TO LOCAL SCALE** 16-19 May, 2012, University Vasile Alecsandri, Bacau, Romania
31. **ELSEDIM** International Conference, 9th Edition, University Babes-Bolyai, Cluj Napoca, 25-27th October, 2012, <http://elsedima.conference.ubbcluj.ro/>

32. **7th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2012**, July 1-7, Ohrid, Rep. of Macedonia, <http://www.ohrid2012.sdewes.org/>
33. **Environmental Microbiology and Biotechnology in the Frame of the Knowledge-Based Bio and Green Economy, Conference, EMB-2012**, 10-12 April, 2012, Bologna, Italy
34. **Quality Management in Higher Education QMHE 2012**, Iasi, Romania, 16-17 November.

2011

35. **Sixth International Conference on Environmental Engineering and Management ICEEM 06**, 1 – 4 September 2011, Balatonalmádi, Hungary, Chair person on Impact, risk and life-cycle assesment session; Managing Editor for *Proceedings of the Conference*
36. **The 3rd IASTED International Conference on Environmental Management and Engineering**, EME 2011, July 4 – 6, 2011, Calgary, AB, Canada
37. **6th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System**, September 25-29, 2011, Dubrovnik, Croatia

2010

38. **The Second IASTED International Conference on Environmental Management and Engineering**, EME 2010, July 15 – 17, 2010, Banff, Alberta, Canada
39. **International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences**, IC-ANMBES June 18-20, 2010, Brasov

2009

40. **Fifth International Conference on Environmental Engineering and Management**, 15-19 Septembrer 2009, Tulcea, Romania
41. **International Conference on Engineering, Environment, Economics, Safety and Health 2009 (CONVEESH'09)**, October 26-27, 2009, *Organizaed by the Faculty of Technical, Universitas Sam Ratulangi, Manado in Indonesia* in Colaboration with Sustainable Architecture and Environment (SENVAR 10th, 2009), Manado, North Sulawesi, Indonesia
42. **5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System**, September 30-October 3, 2009, Dubrovnik, Croatia
43. **BRAMAT**, International Conference on Materials Science & Engineering, 26 – 28 February 2009, University Transilvania Brasov, Romania

2008

44. **The Fifth International Symposium „Advanced Technologies for Pulp and Paper Industry and Environment”**, 3 – 5 September 2008, organized by CEPROHART S.A. Braila and Technical Association for Pulp and Paper Industry (ATICHR)

2007

45. **Process Engineering and Pollution Prevention**, workshop organized by the Department of Environmental Engineering and Management of Technical University of Iasi, Romania and Department of Chemical Engineering, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, Vienna University of Technology 24 – 30 August 2007
46. **Fourth International Conference on Environmental Engineering and Management**, 12-15 September 2007, member of Organizing Committee and of *International Scientific Committee*, Managing Editor for *Proceedings of the Conference*

2006

47. **Third International Conference on Environmental Engineering and Management**, 21-24 September 2006, *International Scientific Committee*, co-chairman, Managing Editor for *Proceedings of the Conference*
48. **Workshop "SIWMANET"**, Octombrie, Iasi, Romania
49. **Process Integration and Design for Pollution Prevention**, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and the Department of Biological Engineering, University Minho, Portugal, June 2006.

50. **Environmental communication, reporting and transparency in Romania**, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIIEE, Lund, Sweden, Iasi, May 2006

2005

51. **2nd Living Knowledge Conference: "Advancing Science and Society Interactions"**, Seville 3-5 February 2005, Spain
52. **Management and environmental policy for sustainable production and consumption**, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIIEE, Lund, Sweden, Iasi, 28-29 October, 2005
53. **Image Analysis Applications in Biological Wastewater Treatment Process**, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and the Department of Biological Engineering, University Minho, Portugal, April 2005.
54. **Eco-certification in tourism**, Workshop, organized by the Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, Research Center for Tourism, Campulung Moldovenesc, April 2005
55. **Funding Opportunities at National Level**, Department of Projects Management, Technical University Iasi, March, 2005

2004

56. **European Summer School Human Environment: Energy, Forests, Health and Society**, organized by University Henry Poincaré Nancy, University Nancy 1 and „Gheorghe Asachi” Technical University of Iasi, 3-10 September 2004, Nancy, France.
57. **Second International Conference on Environmental Engineering and Management**, 23-26 September 2004, co-chairman, member of the Scientific Advisory Board, Managing Editor for Proceedings of the Conference
58. **Eco-Design and Product Innovations**, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania
59. **Waste management**, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania
60. **Sustainable Tourism - Certification – Ecolabelling**, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania

2002

61. **First International Conference on Environmental Engineering and Management**, 26-28 September 2002, member of the Organizing Committee and of Scientific Advisory Board, Managing Editor for *Proceedings of the Conference*
62. **The Third Conference of the Faculty of Industrial Chemistry Iasi**, 13-15 November 2002, Iasi, Romania, secretary of the Organizing Committee and Managing Editor for *Proceedings of the Conference*

2000

63. **Earth Day**, Studentship Scientific Communications, May 1999-May 2002.

1989

64. **The 8th Session for Scientific Communications: Actualities in Drug Research, Production and Use**, Research Center for Antibiotics, Iasi, Romania, 25-26 May, 1989

1986

65. **Sessions for Scientific Research Reports Communications**, Research Center for Antibiotics, Iasi, Romania, May, 1985-1986.

1984

66. **Sessions for Scientific Research Reports Communications**, Research Center for Antibiotics, Iasi, Romania, May, 1984.

Erasmus and Erasmus+ Agreements

| Period | Partner |
|-----------|--|
| 2011-2014 | University Maribor, Slovenia |
| 2011-2014 | University of Study dell'Insubria, Varese, Italy, |
| 2010-2013 | University of Study, <i>Federico II</i> , Naples, Italy, |
| 2010-2013 | <i>Alma Mater Studiorum</i> University of Study, Bologna, Italy, |
| 2009-2014 | Twente University Netherlands, |
| 2008-2013 | University Minho, Portugal, |
| 2014-2021 | University Minho, Portugal, |
| 2014-2021 | University of Natural Resources and Life Sciences, Austria |
| 2014-2021 | Technical University of Crete, Grecia |
| 2014-2021 | Universidade do Minho, Portugalia |
| 2014-2021 | University of Maribor, Slovenia |
| 2014-2021 | Hacettepe University Ankara, Turcia |
| 2014-2021 | Karabuk University, Turcia |
| 2014-2017 | Twente University Netherlands, |
| 2014-2021 | University of Study, <i>Federico II</i> , Naples, Italy, |
| 2014-2021 | <i>Alma Mater Studiorum</i> University of Study, Bologna, Italy |
| 2017-2020 | University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland – Swiss-European Mobility Programme |
| 2019-2021 | Twente University Netherlands, |
| 2018-2021 | University Vigo, Spain |
| 2019-2021 | University Almeria, Spain |
| 2019-2021 | National Technical University, Athene, Grecia |

Scientific publications elaborated and coordinated as Editor

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Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi) (Series Editor) ISSN 0254-7104

- 2000 Tome XLVI (L), Fasc. 1-2
Tome XLVI (L), Fasc. 3-4
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Tome XLVII (LI), Fasc. 3-4
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Tome XLVIII (LII), Fasc. 3-4
- 2003 Tome XLIX (LIII), Fasc. 1-2
Tome XLIX (LIII), Fasc. 3-4
Tome XLIX (LIII), Fasc. 5, Chemistry and Chemical Engineering (2003), Proceedings of the Third Conference of The Faculty of Industrial Chemistry. IAȘI, 13-15 November (2002), 78 papers, 480 pags.

Position papers on the major R&D priorities of the Group of Experts of Environmental Biotechnology Section – European Ferderation of Biotechnology

- 2011- *R&D needs in the field of biomonitoring, evaluation of the ecological risk, and bioremediation of emerging chemical (pharmaceuticals, endocrine disruptors, hormones, viruses, toxins etc.) and biological (bacteria, viruses) micropollutants in soils, sediments, groundwater, industrial and municipal wastewaters, aquaculture*

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On line at: http://www.efb-central.org/images/uploads/PP_emergingpollutants_26.02.2012.pdf

Newsletters

- 2009 ***SORT IT, Recovered paper SORTing with Innovative Technologies, Newsletter 1/2009***, On line:
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http://www.sortit.eu/index.php?option=com_rokdownloads&view=file&Itemid=129&id=8:nl22010
- 2011 ***SORT IT, Recovered paper SORT Ing with Innovative Technologies, Newsletter 3/2011***, On line:
http://www.sortit.eu/index.php?option=com_rokdownloads&view=file&Itemid=129&id=29:nl32010
- 2011 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 1/2011***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_1_2011.pdf
- 2012 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 2/2012***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_2_2012.pdf
- 2013 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 3/2013***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_2_2012.pdf
- 2014 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 4/2014***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_2_2012.pdf
- 2015 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 5/2015***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_5_2015.pdf
- 2016 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 6/2016***, On line:
http://biosacc.xhost.ro/pdf/Newsletter_BIOSACC_6_2016.pdf

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