

Concurs pentru ocuparea postului poz. 1 , de **Cercetător Științific gradul II**,
 Departamentul de **Inginerie Chimică**,
 Facultatea de **Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"**,
 Disciplinele: **1. Fenomene de transfer. Transfer de masă**,
2. Modelarea, simularea și optimizarea proceselor specifice ingineriei chimice,
3. Metode avansate de epurare a apelor uzate,
 Domeniul **Inginerie Chimică**,
 Post publicat în Monitorul Oficial al României, Partea a III-a, nr. **1242** din **03.12.2021**

LISTA DE LUCRĂRI

Candidat: **SECLA, I. MARIUS SEBASTIAN - Dr./** din **2008**, **Cercetător Științific gradul II** din **2020**

1^o Teza de doctorat

Titlul tezei: *Studiul transferului de masă în procese de dizolvare anodică*

Instituție: Universitatea Tehnică Gheorghe Asachi din Iași, Facultatea de Inginerie Chimică și Protecția Mediului

Titlul diplomei: **Doctor în Inginerie Chimică** seria F nr.0001860, Ordinul Ministerului Educației, Cercetării și Tineretului nr. 3439 din 12.03.2008

Conducător Științific: Prof. Dr. Ing. Stelian Petrescu.

2^o Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcționale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum și alte lucrări (M1, M2 etc.) prin care se aduc contribuții la dezvoltarea activităților didactice/ profesionale.

3^o Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenție (B1, B2 etc.), creații artistice prezentate la manifestări recunoscute din țară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor științifice naționale/ internaționale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum și alte lucrări (N1, N2 etc.) prin care se aduc contribuții științifice la dezvoltarea domeniului.

	Capitol carte de specialitate publicată în editură din străinătate	Punctaj
Cb	Cb1 B. Cagnon, M.S. Secula , S.S. Bayazit, <i>Nanoporous Carbon Composites for Water Remediation</i> , in <i>Carbon-Based Material for Environmental Protection and Remediation</i> , Mattia Bartoli, Marco Frediani and Luca Rosi, IntechOpen, DOI: 10.5772/intechopen.91355 ISBN: 978-1-78984-587-7; Print ISBN: 978-1-78984-586-0; eBook (PDF) ISBN: 978-1-83968-442-5 Punctaj $12/100 \cdot 10/3 = 0,4$	0,4
	TOTAL Cb	0,4
R	Articol publicat în revistă cotate ISI, cu factor de impact	
	R1 F.C. Çavuşoğlu, Ş. S. Bayazit, M.S. Secula , B. Cagnon, <i>Magnetic carbon composites as regenerable and fully recoverable adsorbents: Performance on the removal of antidiabetic agent metformin hydrochloride</i> , Chemical Engineering Research and Design, 168, 2021, 443-452, DOI: 10.1016/j.cherd.2021.01.034 WOS:000632173500001, IF = 3,739 ; Punctaj $6/4 = 1,5$	1,5
	R2 M.S. Secula , A. Vajda, B. Cagnon, F. Warmont, I. Mămăligă, <i>Photo-Fenton-peroxone process using Fe (II)-embedded composites based on activated carbon: characterization of catalysts and catalytic tests</i> , The Canadian Journal of Chemical Engineering, 2020, 98(3), 650-658, DOI: 10.1002/cjce.23662, WOS:000497151500001, IF = 2,007 ; Punctaj $6/5 = 1,2$	1,2
	R3 C.S. Stan, A. Coroabă, L. Ursu, M.S. Secula , B.C. Simionescu, <i>Fe(III) doped carbon nanodots with intense green photoluminescence and dispersion medium dependent emission</i> , Scientific Reports, 9, 2019, art 18893, DOI:10.1038/s41598-019-55264-x WOS: 000502621600001, IF = 4,379 ; Punctaj $6/5 = 1,2$	1,2

R4 M.S. Secula* , E. Dávid, B. Cagnon, A. Vajda, C. Stan, I. Mămăligă, <i>Kinetics and equilibrium studies of 4-chlorophenol adsorption onto magnetic activated carbon composites</i> , Environmental Engineering and Management Journal, 17(4), 2018, 783-793, DOI: 10.30638/eemj.2018.079 WOS:000431134900004, IF = 0,916 ; Punctaj 6/6=1	1
R5 M. Pirsaeheb, H. Hossini, M.S. Secula , M. Parvaneh, G.Md. Ashraf, <i>Application of high rate integrated anaerobic-aerobic/biogranular activated carbon sequencing batch reactor (IAnA-BioGACsBR) for treating strong municipal landfill leachate</i> , Scientific Reports, 7, 2017, art 3109, DOI:10.1038/s41598-017-02936-1, WOS:000402865200021, IF = 4,379 ; Punctaj 6/5 = 1,2	1,2
R6 E. Dávid, M.S. Secula , G. Özdemir, I. Mamaliga, <i>Mechanisms of para-chlorophenol adsorption onto activated carbons having different textural and chemical properties</i> , Desalination and Water Treatment, 62, 2017, 221-234, DOI: 10.5004/dwt.2017.0350 WOS:000403566800024, IF = 1,254 ; Punctaj 6/4 = 1,5	1,5
R7 I. Solomon, O.R. Hauta, M.S. Secula , I. Mamaliga, <i>Study of pressure drop in fixed, fluidized and spouted bed of several adsorbent materials</i> , Environmental Engineering and Management Journal, 14(10), 2015, 2303-2308, DOI: 10.30638/eemj.2015.245 WOS:000403566800024, IF = 0,916 ; Punctaj 6/4 = 1,5	1,5
R8 E.T. Iacob-Tudose, E. David, M.S. Secula , I. Mamaliga, <i>Adsorption equilibrium and effective diffusivity in cylindrical alumina particles impregnated with Calcium Chloride</i> , Environmental Engineering and Management Journal, 14(3), 2015, 503-508, DOI: 10.30638/eemj.2015.053 WOS:000352652700001, IF = 0,916 ; Punctaj 6/4 = 1,5	1,5
R9 C.S. Stan, M. Popa, M. Olariu, M.S. Secula , <i>Synthesis and characterization of PSSA-Polyaniline composite with enhanced processability in thin films</i> , Open Chemistry, 2015; 13: 467–470, DOI: 10.1515/chem-2015-0057 WOS:000355403100055, IF = 1,554 ; Punctaj 6/4 = 1,5	1,5
R10 M.S. Secula* , L. Zaleschi, C. S. Stan, I. Mămăligă, <i>Effects of electric current type and electrode configuration on the removal of Indigo Carmine from aqueous solutions by electrocoagulation in a batch reactor</i> , Desalination and Water Treatment, 52(31-33) 2014, 6135-6144, DOI: 10.1080/19443994.2013.811116 WOS:000344386000047, IF = 1,254 ; Punctaj 6/4 = 1,5	1,5
R11 L. Zaleschi., M.S. Secula , C. Teodosiu, C. S. Stan, I. Cretescu, <i>Removal of Rhodamine 6G from Aqueous Effluents by Electrocoagulation in a Batch Reactor: Assessment of Operational Parameters and Process Mechanism</i> , Water, Air, & Soil Pollution, 225(9), 827-835, DOI: 10.1007/s11270-014-2101-z, 2014 WOS_000341836700021, IF = 2,52 ; Punctaj 6/5 = 1,2	1,2
R12 M.S. Secula , C.S. Stan, C. Cojocaru, B. Cagnon, I. Cretescu, <i>Multi-Objective Optimization of Indigo Carmine Removal by an Electrocoagulation/GAC Coupling Process in a Batch Reactor</i> , Separation Science and Technology, 49 (6) 2014, 924-938, doi:10.1080/01496395.2013.871292 WOS: 000334159200016, IF = 2,475 ; Punctaj 6/5 = 1,2	1,2
R13 M.S. Secula , I. Cretescu, M. Diaconu, <i>Adsorption of acid dye Eriochrome Black T from aqueous solutions onto activated carbon</i> , Journal of Ecology and Environmental Protection, 15(4) 2014, 1583–1593 WOS: 000348254600008, IF=0,577 ; Punctaj 6/3=2	2
R14 C.S. Stan, N. Marcotte, M.S. Secula , M. Popa, <i>A New Photoluminescent Silica Aerogel Based on N-Hydroxysuccinimide –Tb(III) Complex</i> , Journal of Sol-Gel Science and Technology, 69(1), 2014, 207-213, DOI: 10.1007/s10971-013-3205-4 WOS:000330974100028, IF = 2,326 ; Punctaj 6/4 = 1,5	1,5
R15 M.S. Secula , I. Cretescu, B. Cagnon, L.R. Manea, C.S. Stan, I.G. Breaban, <i>Fractional Factorial Design Study on the Performance of GAC-Enhanced Electrocoagulation Process involved in Color Removal from Synthetic Dye Solutions</i> , Materials, 6(7) 2013 2723-2746, DOI: 10.3390/ma6072723, WOS:000322168300009, IF = 3,623 ; Punctaj 6/6 = 1	1
R16 C. S. Stan, N. Marcotte, M.S. Secula , M. Popa, <i>Luminescent xerogels obtained through embedding Tb(III) and Eu(III) complexes in silica matrix</i> , Optical Materials (20th Optics, 2013), 35(9), 1741–1747, DOI: 10.1016/j.optmat.2013.05.025, 2013 WOS:000322929000023, IF = 3,08 ; Punctaj 6/4 = 1,5	1,5
R17 M.S. Secula , Y. Barrot, B. Cagnon, F. Versaveau, O. Chedeville, <i>Diethyl phthalate removal by continuous-flow ozonation: Response Surface Modeling and Optimization</i> , Water Air Soil Pollution, 224, 2013, 1-14 DOI: 10.1007/s11270-013-1484-6 WOS:000317619700007, IF = 2,52 ; Punctaj 6/5 = 1,2	1,2

R18 M.S. Secula , B. Cagnon, T.F. de Oliveira, O. Chedeville, H. Fauduet, <i>Removal of acid dye from aqueous solutions by electrocoagulation/GAC adsorption coupling: Kinetics and electrical operating costs</i> , Journal of the Taiwan Institute of Chemical Engineers, 43 (5), 2012, 767-775, DOI: 10.1016/j.jtice.2012.03.003, WOS:000309895000016, IF = 4,876 ; Punctaj 6/5 = 1,2	1,2
R19 M.S. Secula* , I. Cretescu, S. Petrescu, <i>Electrocoagulation treatment of sulfide wastewater in a batch reactor: effect of electrode material on the electrical operating costs</i> , Environmental Engineering and Management Journal, 11(8), 2012, 1485-1491, DOI: 10.30638/eemj.2012.186 WOS:000310368400017, IF = 0,916 ; Punctaj 6/3 = 2	2
R20 M. Spiridon, O.R. Haută, M.S. Secula , S. Petrescu, <i>Preparation and Characterization of Some Porous Composite Materials for Water Vapor Adsorption</i> , Revista de Chimie, 63 (7) 2012, 711-714 WOS:000308731500013, Punctaj 6/4 = 1,5	1,5
R21 C.S. Stan, M.S. Secula* , D. Sibiescu, <i>Highly luminescent polystyrene embedded CdSe quantum dots obtained through a modified colloidal synthesis route</i> , Electronic Material Letters, 8 (2), 2012, 325-329, DOI: 10.1007/s13391-012-1108-0 WOS:000305771000007, IF = 3,917 ; Punctaj 6/3 = 2	2
R22 C.S. Stan, I. Rosca, D. Sutiman, M.S. Secula* , <i>Highly luminescent europium and terbium complexes based on succinimide and n-hydroxysuccinimide</i> , Journal of Rare Earths, 30 (5), 2012, 401-407, DOI: 10.1016/S1002-0721(12)60061-1 WOS:000305318100001, IF = 3,917 ; Punctaj 6/4 = 1,5	1,5
R23 M.S. Secula* , Gh. Nemtoi, I. Cretescu, <i>Anodic dissolution of some electrode materials involved in electrochemically assisted coagulation</i> , Studia Universitatis Babes-Bolyai Chemia, 57(3), 2012, 223-236 WOS:000318592900026, IF = 0,447 ; Punctaj 6/3 = 2	2
R24 M.S. Secula* , M. Spiridon, I. Solomon, S. Petrescu, <i>Response Surface Modeling of Water Vapor Adsorption in Fixed Bed of Impregnated Alumina Grains</i> , Revista de Chimie, 2011, 62(12), 1175-1179 WOS:000298220300010, Punctaj 6/4 = 1,5	1,5
R25 C. Luca, A.M. Grigoriu, R.M. Diaconescu, M.S. Secula , <i>Modeling and Simulation of Monochlorotriazinyl-β-cyclodextrin Paper Grafting by Artificial Neural Network</i> , Revista de Chimie, 62(10), 2011, 1033-1038 WOS:000296933300016, Punctaj 6/4=1,5	1,5
R26 M.S. Secula* , I. Cretescu, S. Petrescu, <i>An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation</i> , Desalination, 277 (1-3), 2011, 227-235, DOI: 10.1016/J.DESAL.2011.04.031, WOS:000293720600031, IF = 9,501 ; Punctaj 6/3 = 2	2
R27 C. Pohontu, I. Cretescu, M.S. Secula , M. Macoveanu, <i>Response surface Methodology for the Optimization of Landfill Leachate Treatment Using Ion Exchange Resins</i> , Environmental Engineering and Management Journal, 10(3), 2011, 357-366, DOI: 10.30638/eemj.2011.052 WOS:000290921300006, IF = 0,916 ; Punctaj 6/4 = 1,5	1,5
R28 S. Turcuman, D. Sibiescu, I. Rosca, M.S. Secula , I. Cretescu, <i>Compounds of Fe(III) and Co(II) Coordinated with Oxygen Atoms</i> , Revista de Chimie, 62(2), 2011, 189-194 WOS:000288838800014, Punctaj 6/5 = 1,2	1,2
R29 S. Turcuman, D. Sibiescu, I. Rosca, I. Cretescu, M.S. Secula , <i>Synthesis and Characterization of some Coordination Compounds of Mn(II), Co(II) and Fe(III) with 1-(3 bromine, 2 hydroxy, 4 methyl-phenyl)-2-(4 bromine-phenyl-sulphonyl)-ethanone</i> , Revista de Chimie, 61(10), 2010, 951-956 WOS:000284244800009, Punctaj 6/5 = 1,2	1,2
R30 C.S. Stan, D. Sibiescu, M.S. Secula , I. Rosca, I. Cretescu, <i>Phosphorescent Composites Based on Polyethyleneterephthalate</i> , Materiale Plastice, 47(3), 2010, 324-327 WOS:000283484600012, IF = 0,593 ; Punctaj 6/5 = 1,2	1,2
R31 M. Spiridon, M.S. Secula , S. Petrescu, <i>Wet air-drying by adsorption on active carbon impregnated with calcium chloride</i> , Revue Roumaine de Chimie, 55(6), 2010, 289-298 WOS:000287463100002, IF = 0,278 ; Punctaj 6/3 = 2	2
R32 S. Turcuman, D. Sibiescu, I. Rosca, A. Cailean, I. Cretescu, C.Y. Rosca, M.S. Secula , <i>Compounds of Mn(II), Co(II) and Ni(II) with Ligand Derived from Morfolin-4 Carboditioic Acid-2(3,5 Diiod, 4 Methyl 2 Hydroxyphenyl) 2-Oxoethylesther</i> , Revista de Chimie, 61(4), 2010, 355-359 WOS:000278425100005, Punctaj 6/7 = 0,857	0,857
R33 D. Sibiescu, S. Turcuman, D. Tutulea, I. Rosca, A. Cailean, I. Cretescu, M.S. Secula , <i>New Complexes of Mn(II), Fe(III) and Co(II)</i> , Revista de Chimie, 61(3), 2010, 311-315 WOS:000276667000019, Punctaj 6/7 = 0,857	0,857
R34 I. Spatarescu, D. Sibiescu, I. Rosca, A. Cailean, I. Cretescu, M.S. Secula , <i>Synthesis and Characterization of a New Coordination Compounds of Cr(III), Fe(III) and Cr(II) with Ligand Derived from N,N'-bis(Salicylidene)-Methinmethyldiamine</i> , Revista de Chimie, 61(3), 2010, 306-310 WOS:000276667000018, Punctaj 6/6 = 1	1

R35 D. Sibiescu, I. Spatarescu, I. Rosca, I. Cretescu, M.S. Secula , <i>New Complexes of Zn(II), Cd(II) and Hg(II) with Ligand Derived from 1-(3,5-diiodo, 2-hydroxy, 4-methyl phenyl), 2-phenyl sulfanyl ethenone</i> , Revista de Chimie, 61(2), 2010, 130-134 WOS:000276216200006, Punctaj 6/5 = 1,2	1,2
R36 C. Pohontu, I. Cretescu, M.S. Secula , C. Paduraru, L. Tofan, M. Macoveanu, <i>Integrated treatment of leachate from municipal landfill</i> , Environmental Engineering and Management Journal, 9(1), 2010, 95-100, DOI: 10.30638/eemj.2010.014 WOS:000275701800014, IF = 0,916; Punctaj 6/6 = 1	1
R37 R. Diaconescu, M.S. Secula , S. Petrescu, <i>Study of gas drying by adsorption on composite materials using neural networks</i> , Revista de Chimie, 2009, 60(10), 1065-1069 WOS:000272273600016, Punctaj 6/3 = 2	2
R38 S. Petrescu, M.S. Secula , I. Cretescu, Gh. Nemtoi, <i>Study on metal anodic dissolution</i> , Revista de Chimie, 60(5), 2009, 462-467 WOS:000267459400007, Punctaj 6/4 = 1,5	1,5
R39 S. Petrescu, L.D. Horoba, I.G. Galben, M.S. Secula , <i>Study of mass transfer at gas drying by adsorption on composite materials</i> , Revista de Chimie, 60(3), 2009, 308-312 WOS:000265053000020, Punctaj 6/4 = 1,5	1,5
R40 M.S. Secula , R. Diaconescu, C. Petrescu, S. Petrescu, <i>ANN Modeling and Simulation of Gas Drying by Adsorption on Composite Materials</i> , Proceedings - 23rd European Conference on Modelling and Simulation, ECMS 2009, 643-648, ISBN: 978-0-9553018-8-9 / ISBN: 978-0-9553018-9-6 WOS:000302016000094, Punctaj 6/4 = 1,5	1,5
R41 M.S. Secula* , R. Diaconescu, S. Petrescu, <i>Screening and Response Surface Modeling of Water Vapor Adsorption from Wet Air in Packed Bed of Silica Gel Using D-Optimal Design</i> , Studia Universitatis Babes-Bolyai Chemia, 2009, 133-144 WOS:000302016000094, IF = 0,447; Punctaj 6/3 = 2	2
R42 M.S. Secula , G.D. Suditu, I. Poullos, C. Cojocaru, I. Cretescu, <i>Response surface optimization of the heterogeneous photocatalytic decolorization of a simulated dyestuff effluent</i> , Chemical Engineering Journal, 141 (1-3), 2008, 18-26, DOI: 10.1016/j.cej.2007.10.003, WOS:000257572900003, IF = 13,273; Punctaj 6/5 = 1,2	1,2
R43 G.D. Suditu, M.S. Secula , C.G. Piuleac, S. Curteanu, I. Poullos, <i>Genetic Algorithms and Neural Networks Based Optimization Applied to the Wastewater Decolorization by Photocatalytic Reaction</i> , Revista de Chimie, 59(7), 2008, 816-825 WOS:000259310500022, Punctaj 6/5 = 1,2	1,2
R44 S. Petrescu, M.S. Secula , <i>Mathematical modeling of gas drying by adsorption</i> , Environmental Engineering and Management Journal, 7 (3), 2008, 179-191 WOS:000257826200003, IF = 0,916; Punctaj 6/2 = 3	3
R45 Gh. Nemtoi, M.S. Secula* , I. Cretescu, S. Petrescu, <i>Voltammetric study of copper anodic dissolution into copper sulphate and sulphuric acid solutions</i> , Revista de Chimie, 58(12), 2007, 1216-1220 WOS:000252496200012, Punctaj 6/4 = 1,5	1,5
R46 Gh. Nemtoi, M.S. Secula* , I. Cretescu, S. Petrescu, <i>Voltammetric Characterization of Copper and Aluminum Behavior in Concentrated Aqueous Solutions of Phosphoric Acid</i> , Revue Roumaine de Chimie, 52(7), 2007, 655-659 WOS:000252632400005, IF = 0,278; Punctaj 6/4 = 1,5	1,5
R47 S. Petrescu, M.S. Secula , <i>Study of Mass Transfer at Non-Spherical Single Particle Dissolution</i> , Revista de Chimie, 56 (10), 2005, 977-980 WOS:000233793100002, Punctaj 6/2 = 3	3
TOTAL R	70,314
Articol publicat în revistă indexată în baze de date internaționale (BDI)	
Rb1 A. Vajda, M.S. Secula* , L. Hagi-Zaleschi, G. Carja, I. Mamaliga, <i>Magnetic activated carbon composites used as fenton like catalysts for photodegrading organic compounds in aqueous solutions</i> , Buletinul Institutului Politehnic din Iași, 63(1) 2017, 59-65, Punctaj 3/5 = 0,6	0,6
Rb2 O.R. Haută*, M.S. Secula , I. Solomon, I. Mămăligă, <i>Water vapors separation from air on some composite materials</i> , Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, XIV(2), 2013, 113-118 (SCOPUS indexed journal, CNCSIS B+), Punctaj 3/4 = 0,75	0,753
Rb3 C.S. Stan, M.S. Secula , M. Popa, <i>Synthesis methods of II-VI Quantum Dots – A review</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 59 (3), 2013 (B+, CNCSIS), Punctaj 3/3 = 1	1

Rb4	M.S. Secula* , <i>Optimization of several process parameters for indigo carmine adsorption on activated carbon using central composite design</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 58 (3), 2012, 9-18 (B+, CNCSIS), Punctaj 3/1 = 3	3
Rb5	O.R. Haută, M.S. Secula , I. Solomon, I. Mămăligă, <i>Gas drying using "selective water sorbents" based on alumina</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 58 (2), 2012, 99-104 (B+, CNCSIS), Punctaj 3/4 = 0,75	0,75
Rb6	S. Petrescu, M.S. Secula , M. Spiridon, I. Solomon, <i>Study of gas separation process by dynamic adsorption in fixed bed</i> , Studies and Scientific Research – Chemistry and Chemical Engineering, Biotechnologies, Food Industry, 2010, 11(3), 331-342 (B+ CNCSIS), Punctaj 3/4 = 0,75	0,75
Rb7	I. Solomon, M.S. Secula , S. Petrescu, <i>Study of hydrodynamics in fixed bed of composite granular materials</i> , Studies and Scientific Research – Chemistry and Chemical Engineering, Biotechnologies, Food Industry, 11(4) (2010) 403-410, Punctaj 3/3 = 1	1
Rb8	C. Stan, M.S. Secula , M.D.Tutulea, D. Sibiescu, I. Rosca, I. Cretescu, <i>Core shell phosphorescent composites applied in optoelectronics</i> , Bul. I.P. Iasi, Section Mathematics and Physics, Tomul LV(LIX) (2), 2009, 117 (indexed BDI, B+, CNCSIS), Punctaj 3/6 = 0,5	0,5
Rb9	I. Spatarescu, D. Sibiescu, I. Rosca, M.S. Secula , <i>Study of a New Complex of Cu(II), with 1-(3,5 Diiodo, 4 Methyl, 2 Hydroxy, Phenyl)- 2 Phenylsulfanyl Ethanone Ligand</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 55 (2), 2009, 31-39 (C, CNCSIS), Punctaj 3/4 = 0,75	0,75
Rb10	M.S. Secula , R. Diaconescu, S. Petrescu, <i>A Regression Analysis Study Of Gas Drying By Adsorption On Composite Materials</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 55 (1), 2009, 65-77 (C, CNCSIS), Punctaj 3/3 = 1	1
Rb11	C.S. Stan, M.S. Secula , D. Sibiescu, I. Cretescu, I. Rosca, <i>Quantum Dot CdSe nanocrystals emitting in the green area of vis spectrum, for optical applications</i> , Annals of Dunarea de Jos University of Galati, Mathematics, Physics, Theoretical Mechanics fascicle II, year III (XXXII) 2009, 22-25. (B CNCSIS), Punctaj 3/5 = 0,6	0,6
Rb12	C. Pohontu, I. Cretescu, M.S. Secula , M. Cioroi, M. Macoveanu, <i>Ozone production by electrical discharge applied for treatment of municipal landfill leachate</i> , Annals of Dunarea de Jos University of Galati, Mathematics, Physics, Theoretical Mechanics fascicle II, year III (XXXII) 2009, 26-30. (B CNCSIS), Punctaj 3/5 = 0,6	0,6
Rb13	S. Petrescu, M.S. Secula , <i>New Composite Materials Used As Adsorbents For Water Vapours</i> , Bul. I.P. Iasi, Section Chemistry and Chemical Engineering, Tome 54(4), 2008, 89-96 (C, CNCSIS), Punctaj 3/2 = 1,5	1,5
Rb14	M.S. Secula , S. Petrescu, <i>Mathematical modeling of anodic processes with soluble electrode in diffusional regime</i> , Bul. I.P. Iasi, Tome 53(1-2), 2007, 39-52 (B, CNCSIS), Punctaj 3/2 = 1,5	1,5
Rb15	C. Lipsa, D. Condurache, I. Cretescu, M.S. Secula , G. Soreanu, M. Macoveanu, <i>An Electrical Field Influence on the Functionality of Purolite A830 & A500 Anionic Resins in Water Systems</i> , Bul. I.P. Iasi, Mathematics-Physics Section, vol. LI(LV), 1-2, 2005, 137-145 (B, CNCSIS), Punctaj 3/6 = 0,5	0,5
Rb16	S. Petrescu, A. Frunza, M.S. Secula , <i>Study of Gas-Solid Heat Transfer Accompanied by Solid Phase Change. 1. Temperature Distribution Within the Solid</i> , Bul. I.P. Iasi, Chemistry and Chemical Engineering, 49 (1 - 2), 2004, 39-47, (B, CNCSIS), Punctaj 3/3 = 1	1
Rb17	M.S. Secula , I. Cretescu, S. Petrescu, <i>Study of Mass Transport in Anodic Dissolution Processes</i> , Bul. I.P. Iasi, Chemistry and Chemical Engineering, 49 (3 - 4), 2004, 41-53 (B, CNCSIS), Punctaj 3/3 = 1	1
Rb18	M. Bezdadea, E. Doniga, R. Diaconescu, M. Bourceanu, I. Cretescu, D. Zavastin, M.S. Secula , <i>Possibilities of Aluminum Removal from Aqueous Solutions using Original Polyurethane Membranes</i> , Environmental Engineering and Management Journal, Vol. 3, No. 4, 2004, 649-660, Punctaj 3/7 = 0,429	0,429
	TOTAL Rb	17,232
	Articol/studiu publicat în revistă de specialitate neindexată în baze de date	
Rn1	O.R. Haută, M.S. Secula , S. Petrescu, <i>A kinetic study of water vapor adsorption on active carbon impregnated with lithium bromide</i> , Annals of The University of Oradea, Fascicle of Chemistry, XVIII, 2011, 36-39 (C, CNCSIS), Punctaj 1/3 = 0,333	0,333
	TOTAL Rn	0,333
B	Brevet de invenție acordat în țară	

	B1 C. S. Stan, M.S.Secula , <i>Criogel polimeric pe bază de 2-hidroxietyl metacrilat și oxid de grafen și procedeu de obținere a acestuia</i> , Nr. 00132703, 2021, Punctaj 4/2= 2	2
	B2 C. S. Stan, I. Cretescu, D. Sibiescu, M.S.Secula , <i>Procedeu de obtinere a unui compozit fluorescent pe baza de polietilentereftalat si nanocristale de seleniura de cadmiu</i> , Nr. 00128622, 2013, Punctaj 4/4 = 1	1
	B3 S. Petrescu, M. Spiridon, I. Solomon, M.S. Secula , <i>Utilaj pentru uscarea gazelor</i> , Nr. 00127381, 2012, Punctaj 4/4 = 1	1
	TOTAL B	4
V	Articol/studiu publicat în volumul unei manifestări științifice indexată în baze de date internaționale (BDI)	
	V1 M.S. Secula , A. Vajda, L. Hagi-Zaleschi, B. Cagnon, F. Warmont, I. Mamaliga, <i>Iron(II)-Impregnated Activated Carbon Composites Applied as Fenton-like Catalysts for Degrading Persistent Organic Compounds</i> , 15th International Conference on Environmental Science And Technology, 29 August – 2 Septembrie, Rodos, Grecia 2017 (Proceedings of the International Conference on Environmental Science and Technology ISSN 1106-5516 ISBN 978-960-7475-53-4) https://cest2017.gnest.org/sites/default/files/presentation_file_list/cest2017_01396_pos ter_paper.pdf , Punctaj 3/6 = 0,5	0,5
	V2 M.S. Secula , B. Cagnon, O. Chedeville, I. Mămăligă, I. Cretescu, <i>Coupling of GAC adsorption and electrooxidative regeneration for the treatment of dye wastewater</i> . In: <i>Carbon – American Carbon Society-Print Edition</i> ; 1; 721-724, Annual world conference, Carbon, 2014, ISBN: 9781629934365, Punctaj 3/5 = 0,6	0,6
	V3 O.R. Haută, M.S. Secula , B. Cagnon, I. Solomon, I. Mămăligă, <i>A study on the equilibrium and kinetics of water vapor sorption on some carbon-based, water selective composites</i> , Carbon, June 2012, Krakow, Poland In: <i>Carbon – American Carbon Society-Print Edition</i> ; 1; 725-728, Annual world conference, Carbon, 2014, ISBN: 9781629934365, Punctaj 3/5 = 0,6	0,6
	V4 I. Cretescu, H. Braustein, C. Antohi, M.S. Secula , C. Cojocaru, M. Macoveanu, <i>Enhancement of phenolic wastewater treatment by advanced oxidation processes using Fenton-UV radiation in resonant elliptic cavity</i> , Proceedings of Advanced Oxidation Processes Conference, September 2006, 88 (1 citation), Chania, Greece, Punctaj 3/6 = 0,5	0.5
	V5 I. Cretescu, G.Suditu, H.E.Braustein, M.S. Secula , <i>Electrochemical treatment of wastewater containing amino and nitroso derivates of N,N-dimethyl-aniline</i> , Proceedings of Advanced Oxidation Processes Conference, September 2006, 131, Chania, Greece, Punctaj 3/4 = 0,75	0,75
	TOTAL V	2,95
N	Articol/studiu publicat în volumul unei manifestări științifice neindexată în baze de date	
	Vn1 S. Petrescu, M. Spiridon, M.S. Secula , Experimental study of local mass transfer at gas separation by adsorption (presentation), Days of Chemical Engineering and Environmental Protection Faculty, Iasi, Romania, 19 - 21 November 2008; "Materiale și procese inovative", Volum de lucrări; Ed. Politehnica, Iasi; ISBN: 978-973-621-255-0, Punctaj 1/3 = 0,333	0,333
	TOTAL Vn	0,333
	Lucrare prezentată la simpozion	
	N1 M.S. Secula , B. Cagnon, O. Chedeville, <i>Integrated Advanced Oxidation Processes used for the treatment of synthetic aqueous solutions containing organic micropollutants</i> , LE STUDIUM Conference, Orléans. November 26-28th, 2018, https://www.lestudium-ias.com/fr/event/water-micropollutants-detection-removal Punctaj 1/3 = 0,333	0,333
N	N2 N. Korichi, O. Aubry, C. Norsic, H. Rabat, M.S. Secula , O. Chedeville, B. Cagnon, D. Hong, <i>Paracetamol removal from water by non-thermal plasma technology coupled to activated carbons</i> . Le Studium Conferences "Water micropollutants: from detection to removal", Nov 2018, Orléans, France, https://www.lestudium-ias.com/fr/event/water-micropollutants-detection-removal Punctaj 1/8 = 0,125	0,125
	N3 N. Korichi, O. Aubry, C. Norsic, H. Rabat, M.S. Secula , O. Chedeville, B. Cagnon, D. Hong, <i>Plasma non-thermique couplé à des carbones activés pour la dégradation du paracétamol dans l'eau</i> . 14ème Journées d'échanges du réseau des plasmas froids, 2018, Orléans, France, https://www.lestudium-ias.com/fr/event/water-micropollutants-detection-removal Punctaj 1/8 = 0,125	0,125
	N4 M.S. Secula , B. Cagnon, O. Chedeville, <i>High performance Fe-doped Mn/TiO₂</i>	0,333

activated carbon catalyst applied in photo-Fenton-peroxone processes, Carbon, July 2018, Madrid, Spain, https://www.rsc.org/events/detail/29441/carbon2018-the-world-conference-on-carbon Punctaj 1/3 = 0,333	
N5 A. Vajda, M.S. Secula , B. Cagnon, I. Mamaliga, <i>Iron(II)-embedded composites based on activated carbon used as fenton-like catalysts</i> , The 10th International Conference on Materials Science & Engineering – BraMat 2017, Braşov, 8-11 Martie, 2017, http://www.bramat.ro/bramat-2017.html Punctaj 1/4 = 0,25	0,25
N6 M.S. Secula , M. Darie, G. Carja, <i>Photo-Fenton degradation of organic compounds by Iron(II)-embedded AC composites. Effects of operating parameters</i> , The 9th International Conference on Environmental Engineering and Management (ICEEM09), Bologna, Italia, 6 – 9 Septembrie 2017, https://www.bioways.eu/bioways-events/other-events/iceem09-e2-80-93-9th-international-conference-on-environmental-engineering-and-management/ Punctaj 1/3 = 0,333	0,333
N7 M.S. Secula , M. Darie, G. Carja, <i>Novel self-supported Fe(II) layered double hydroxides as efficient photocatalysts</i> , ICCE 2016, Iasi, 11-13 November 2016, https://icpm.tuiasi.ro/2016/11/icce2016/ Punctaj 1/3 = 0,333	0,333
N8 M. S. Secula , E. David, B. Cagnon, A. Vajda, I. Mămăligă, <i>Kinetics and equilibrium studies of para-chlorophenol adsorption onto magnetic activated carbon composites</i> , ICCE 2016, Iasi, 11-13 November 2016, https://icpm.tuiasi.ro/2016/11/icce2016/ Punctaj 1/5 = 0,2	0,2
N9 M.S. Secula , L.Zaleschi, B. Cagnon, A. Vajda, I. Mamaliga, <i>Iron(II)-impregnated and magnetic activated carbon used as Fenton like catalysts for photodegrading organic compounds</i> , 1st International Conference on Sustainable Water Processing, Sitges, Spain, 11-14 September 2016, https://statnano.com/event/599/1st-International-Conference-on-Sustainable-Water-Processing Punctaj 1/5 = 0,2	0,2
N10 M.S. Secula , M. Darie, G. Carja, <i>Degradation of pharmaceutical agents by photo-Fenton process using novel self-supported Fe(II) and ZnMe (Me=Al³⁺, Cr³⁺, Fe³⁺) layered double hydroxides as Fenton-like catalyst</i> , 1st International Conference on Sustainable Water Processing, Sitges, Spania, 11-14 September 2016, https://statnano.com/event/599/1st-International-Conference-on-Sustainable-Water-Processing Punctaj 1/3 = 0,333	0,333
N11 C.S. Stan, M.S. Secula , P. Horlescu, C.A. Peptu, <i>Preparation method of polymer cryogels based on 2-hydroxyethyl methacrylate and graphene oxide</i> , INVENT-INVEST, 15-18 Septembrie 2016, http://www.inventica-sir.ro/events.html Punctaj 1/4 = 0,25	0,25
N12 M.S. Secula , M. Darie, G. Carja, <i>Self-supported Iron and ZnMe (Me=Al³⁺, Cr³⁺, Fe³⁺) layered double hydroxides used as photo-fenton catalysts</i> , 12th International Conference on Colloid and Surface Chemistry, CCSC'2016, Iaşi, 16-18 May, 2016, https://icccsc2016.wordpress.com/ Punctaj 1/3 = 0,333	0,333
N13 M.S. Secula , E. David, A. Vajda, I. Mamaliga, <i>Para-chlorophenol adsorption onto magnetic AC composites: Equilibrium and Kinetics</i> , Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), Cluj-Napoca, 12-14 Mai, 2016, http://chem.ubbcluj.ro/~schr/yriccce2016/ Punctaj 1/4 = 0,25	0,25
N14 M.S. Secula , M. Darie, G. Carja, <i>Self-supported Fe(II) and ZnMe (Me =Al³⁺, Cr³⁺, Fe³⁺) layered double hydroxides as efficient photocatalysts for degrading toxic organic compounds</i> , The 2016 European Materials Research Society Spring Meeting and Exhibit, Lille (France), 2016, https://www.european-mrs.com/meetings/2016-spring-meeting Punctaj 1/3 = 0,333	0,333
N15 M.S. Secula , L. Hagi-Zaleschi, B. Cagnon, C.S. Stan, G. Carja, <i>Magnetic activated carbon composites used as Fenton like catalyst for degrading pharmaceutical agents</i> , 8th Eastern European Young Water Professionals Conference, Gdansk, Poland, May, 2016, http://bwa-bg.com/8th-eastern-european-iwa-ywp-gdansk-2016-3/ Punctaj 1/5 = 0,2	0,2
N16 M.S. Secula , B. Cagnon, O. Chedeville, <i>Etude de la cinétique et de la thermodynamique d'adsorption sur charbons actifs de trois colorants dans différentes conditions opératoires</i> , XIVe Congrès de la Société Française de Génie des Procédés - Les Sciences du Génie des Procédés pour une Industrie Durable, October 2013, Lyon, France, https://www.sfgp.asso.fr/Q9w95JK6d5t6yWrSC4UcTm2eMqRG358vibZBtdWV22uk494Ys3/uploads/2018/06/PROCEDURE_46_pour_impression_Partie1_01.pdf Punctaj 1/3 = 0,333	0,333

N17 O.R. Haută, B. Cagnon, M.S. Secula , I. Mămăligă, <i>Carbon dioxide sorption on some selective composites: equilibrium and kinetics</i> , Centenary of Education in Chemical Engineering, 28-30 November 2012, Iasi, Romania, http://www.cercetare.icpm.tuiasi.ro/conferinte/CNIC2012/index.html Punctaj 1/4 = 0,25	0,25
N18 O.R. Haută, M.S. Secula , I. Solomon, I. Mămăligă, <i>A study on water vapor sorption equilibrium and kinetics onto alumina and silica-based composite materials</i> , CHIMIA 2012 "New Trends in Applied Chemistry" International Conference, May 2012, Constanta, Romania, http://ntac.univ-ovidius.ro/ Punctaj 1/4 = 0,25	0,25
N19 O.R. Haută, M.S. Secula , I. Mămăligă, <i>A comparative study on equilibrium and kinetics of water vapor sorption on activated alumina and activated carbon impregnated with lithium bromide</i> , 14 Fruhjahrssymposium - the 14th Young Scientists Conference on Chemistry, 18-21 March, 2012, Rostock, Germany, https://www.chemistryviews.org/details/event/1339927/14th_JCF-Fruhjahrssymposium_Young_Scientists_Conference_on_Chemistry.html Punctaj 1/3 = 0,333	0,333
N20 M.S. Secula , T. Ferreira de Oliveira, B. Cagnon, O. Chedeville, H. Fauduet, S. Petrescu, <i>Étude de différents charbons actifs granulaires pour l'élimination par électrocoagulation du Carmin Indigo présent dans des eaux usées</i> , XIII-ème Congrès de la Société Française de Génie des Procédés (SFGP 2011), Lille, France, November 29th, 2011, https://hal.archives-ouvertes.fr/hal-00920907/ Punctaj 1/6 = 0,167	0,167
N21 O.R. Haută, M.S. Secula , S. Petrescu, <i>A kinetic study of water vapor adsorption on active carbon impregnated with lithium bromide</i> , The International Conference on Sciences, November 2011, Oradea, https://www.uroadea.ro/International+Conferences Punctaj 1/3 = 0,333	0,333
N22 M.S. Secula , C.S. Stan, I. Cretescu, S. Petrescu, <i>Fractional factorial design study on the performance of electrocoagulation/granular activated carbon process</i> , Days of Chemical Engineering and Environmental Protection Faculty - VIII-th Edition, 16-18 November 2011, Iasi, Romania, https://icpm.tuiasi.ro/2011/11/zilele-facultatii-de-inginerie-chimica-si-protectia-mediului-editia-a-viii-a/ Punctaj 1/4 = 0,25	0,25
N23 O.R. Haută, M.S. Secula , S. Petrescu, <i>Study of water vapor adsorption on activated alumina impregnated with CaCl₂</i> , Days of „Al.I. Cuza” University of Iași, October 2011, Iasi, Romania, Punctaj 1/3 = 0,333	0,333
N24 M.S. Secula , I. Cretescu, S. Petrescu, <i>Equilibrium and kinetic study of azo dye sorption on a commercial activated carbon</i> , The 1st International Symposium on Control and Metrology of Environmental Quality Factors, Iasi, Romania, November, 2010, http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no3/0_Editorial.pdf Punctaj 1/3 = 0,333	0,333
N25 C. Pohontu, I. Cretescu, M.S. Secula , M. Macoveanu, <i>Response surface Methodology for the Optimization of Landfill Leachate Treatment Using Ion Exchange Resins</i> , The 1st International Symposium on Control and Metrology of Environmental Quality Factors (CMEQF 01-2010), Iasi, Romania, November, 2010, http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no3/0_Editorial.pdf Punctaj 1/4 = 0,25	0,25
N26 M.S. Secula , I. Cretescu, S. Petrescu, <i>Electrocoagulation treatment of a synthetic dye wastewater in a batch reactor</i> , Days of Chemical Engineering and Environmental Protection Faculty - VII-th Edition, 17-19 November 2010, Iasi, Romania, https://icpm.tuiasi.ro/2010/11/zilele-facultatii-de-inginerie-chimica-si-protectia-mediului-2/ Punctaj 1/3 = 0,333	0,333
N27 M.S. Secula , B. Cagnon, H. Fauduet, S. Petrescu, <i>Modification des proprietes poreuses des charbons actifs et de gels de silice par impregnation au chlorure de calcium</i> , Le 6ème Colloque Franco-Roumain de Chimie Appliquée, Orléans, France, July 2010, http://pubs.ub.ro/dwnl.php?id=CSCC6201112V01S01A0003 Punctaj 1/4 = 0,25	0,25
N28 S. Petrescu, M.S. Secula , I. Solomon, M. Spiridon, <i>Modeling of gas separation by adsorption in fixed bed</i> , International Conference of Chemistry and Chemical Engineering, Timisoara, May 2010, Punctaj 1/4 = 0,25	0,25
N29 S. Petrescu, M.S. Secula , M. Spiridon, I. Solomon, <i>Studiul separării gazelor prin adsorbție</i> , Zilele Facultății de Inginerie Chimică și Protecția Mediului, Iași, November 2009, https://icpm.tuiasi.ro/2009/11/zilele-facultatii-de-inginerie-chimica-si-protectia-mediului-3/ Punctaj 1/4 = 0,25	0,25
N30 C.S. Stan, M.S. Secula , D. Sibiescu, I. Cretescu, I. Rosca, <i>Quantum Dot CdSe nanocrystals emitting in the green area of vis spectrum, for optical applications</i> , The International Symposium on Applied Physics, November, 2009, Galati, Romania,	0,2

https://www.yumpu.com/en/document/read/13838272/program-isap1-galati-2009-dunarea-de-jos Punctaj 1/5 = 0,2	
N31 C. Pohontu, I. Cretescu, M.S. Secula , M. Cioroi, M. Macoveanu, <i>Ozone production by electrical discharge applied for treatment of municipal landfill leachate</i> , The International Symposium on Applied Physics, November, 2009, Galati, Romania, https://www.yumpu.com/en/document/read/13838272/program-isap1-galati-2009-dunarea-de-jos Punctaj 1/5 = 0,2	0,2
N32 C. Pohontu, I. Cretescu, M.S. Secula , C. Paduraru, L. Tofan, M. Macoveanu, <i>Integrated treatment of leachate from municipal landfill</i> , The 5th International Conference of Environmental Engineering and Management, ICEEM/05, September, 2009, Tulcea, Romania, http://iceem.ro/wp/wp-content/uploads/2016/08/ICEEM05_Program.pdf Punctaj 1/6 = 0,167	0,167
N33 M. Mitrofan, M.S. Secula , C. Luca, I. Cretescu, M. Dragan, <i>Photocatalytic decolorization of malachite green dye in TiO₂ aqueous suspensions</i> , The 5th International Conference of Environmental Engineering and Management, ICEEM/05, September, 2009, Tulcea, Romania, http://iceem.ro/wp/wp-content/uploads/2016/08/ICEEM05_Program.pdf Punctaj 1/5 = 0,2	0,2
N34 D. Furcoi, M.S. Secula , P. Onu, I. Cretescu, M. Cioroi, <i>Sorption of malachite green dye on a Romanian natural zeolitic volcanic tuff</i> , The 5th International Conference of Environmental Engineering and Management, ICEEM/05, September, 2009, Tulcea, Romania, http://iceem.ro/wp/wp-content/uploads/2016/08/ICEEM05_Program.pdf Punctaj 1/5 = 0,2	0,2
N35 M. Spiridon, M.S. Secula , C. Baci, S. Petrescu, <i>An Experimental Study of Air Drying by Adsorption on Composite Materials with Porous Matrix</i> , The Seventh International Congress in Materials Science and Engineering, May 2009, Iasi, Romania, https://sim.tuiasi.ro/cercetare/conferinte-si-evenimente/ Punctaj 1/4 = 0,25	0,25
N36 C.S. Stan, M.S. Secula , M.D. Tutulea, D. Sibiescu, I. Rosca, I. Cretescu, <i>Phosphorescent composites applied in optoelectronics</i> , The 3-rd National Conference of Applied Physics, Iasi, Romania, November 2008, http://cnfa.tuiasi.ro/cnfa2008/mainpage.html Punctaj 1/6 = 0,167	0,167
N37 S. Petrescu, I. Galben, M.S. Secula , <i>Study of binary gaseous mixtures separation by adsorption in fixed bed</i> , 18th International Congress of Chemical and Process Engineering, August 2008, Prague, Czech Republic, http://www.chisa.cz/2008/ Punctaj 1/3 = 0,333	0,333
N38 S. Petrescu, M.S. Secula , <i>An experimental study of local mass transfer at gas separation by adsorption</i> , International Conference on Chemistry and Chemical Engineering, May 2008, Timisoara, Romania, Punctaj 1/2 = 0,25	0,25
N39 S. Petrescu, A. Frunza, M.S. Secula , <i>Study of heat transfer at convective melting of solids</i> , Days of Chemical Engineering and Environmental Protection Faculty, "Gh. Asachi" Technical University, Iasi, Romania, November 2007, Punctaj 1/3 = 0,333	0,333
N40 R.E. Tataru-Farmus, I. Siminiceanu, Ch. Bouallou, R. Diaconescu, M.S. Secula , <i>Viscosity of three amine aqueous solutions: measuring and correlation</i> , First Edition of Applied Sciences Symposium, Bacau - Slanic Moldova, April 2007, Punctaj 1/5 = 0,2	0,2
N41 M.S. Secula , I. Cretescu, Gh. Nemtoi, S. Petrescu, <i>Study of mass transport in copper anodic dissolution</i> , Chemical Engineering Faculty Days, "Chemical Engineering" Symposium, Iasi, Romania, January 2007, Punctaj 1/4 = 0,25	0,25
N42 Gh. Nemtoi, S. Petrescu, I. Cretescu, M.S. Secula , <i>Study of copper dissolution in the presence of sulphate ions in aqueous solution, by voltammetry</i> , "Al. I. Cuza" University, Days, "Chemical Engineering" Symposium, Iasi, Romania, October 2006, Punctaj 1/4 = 0,25	0,25
N43 Gh. Nemtoi, M.S. Secula , I. Cretescu, S. Petrescu, <i>Voltammetric Characterization of Copper and Aluminum Behavior in Concentrated Aqueous Solutions of Phosphoric Acid</i> , The International Conference on Physical Chemistry Romphyschem-12, Bucharest, Romania, September 2006, Punctaj 1/4 = 0,25	0,25
N44 S. Petrescu, I. Cretescu, M.S. Secula , <i>Mass transfer in Anodic Processes with Soluble Electrode</i> , The XXIst Edition of Academic Days, "Chemical Engineering" Symposium, Iasi, Romania, September, 2006, Punctaj 1/3 = 0,333	0,333
N45 S. Petrescu, A. Frunza, M.S. Secula , <i>Study of Gas-Solid Heat Transfer Accompanied by Solid Phase Change. 1. Temperature Distribution Within the Solid</i> , The XIXth Edition of Academic Days, "Chemical Engineering" Symposium, Iasi, Romania, November 2004, Punctaj 1/3 = 0,333	0,333

N46 M.S. Secula , I. Cretescu, S. Petrescu, <i>Study of Mass Transport in Anodic Dissolution Processes</i> , The XIXth Edition of Academic Days, "Chemical Engineering" Symposium, Iasi, Romania, November 2004, Punctaj 1/3 = 0,333	0,333
TOTAL N	12,095
Conferințe invitate	
Ni1 New perspectives of Advanced Oxidation Processes in the context of emerging micropollutants, 6ème Colloque Master Energie et Matériau, March 16th 2018, Orleans. https://caprysses.fr/IMG/pdf/6e-colloque.pdf	1
Ni2 New perspectives of Advanced Oxidation Processes in the context of emerging micropollutants, LE STUDIUM Thursday, Orléans. December 07, 2017. https://www.lestudium-ias.com/event/new-perspectives-advanced-oxidation-processes-context-emerging-micropollutants	1
Ni3 Water Treatment by Electrocoagulation/Granular Activated Carbon Coupling - Université d'Orléans, France, July 12, 2011	1
TOTAL Ni	3
TOTAL contribuții științifice la dezvoltarea domeniului	110,657

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum și alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se aduc contribuții la dezvoltarea mediului educațional/ cultural/ economic/ social etc.

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale în calitate de DIRECTOR (Certificate de TUIASI)	Punctaj
	P1 PNII-RU-TE-2014-4-0405 Grant, <i>Dezvoltarea și optimizarea unui sistem inovativ foto-Fenton-peroxon pentru degradarea micropoluantilor organici din apă</i> , 2015-2017 Buget 550 000 lei contribuție M.S. Secula 100% Buget anual mediu grant TUASI 2015: 171 178 RON; 550 000/171 178=> 3,213 x 30 x 1 =96,39 (certificat de către Polytech, D.M.M.P. - U.T.I.)	96,39
	P2 PNII-RU-PD Grant, 52/2010, 44, <i>Optimizarea unui sistem hibrid electrocoagulare-sorbție-electrooxidare pentru epurarea apelor uzate</i> , 2010-2012, Buget: 319 909 lei, contribuție M.S. Secula 100% Buget anual mediu grant TUASI 2010: 117 096,6 RON; 319 909/117 096,6=> 2,732 x 30 x 1 =81,96 (certificat de către Polytech, D.M.M.P. - U.T.I.)	81,96
	P3 Responsabil Contract Marius Sebastian Secula, <i>Studiul purificării metalelor prin metode electrochimice</i> , 5177P/28.11.2005. Beneficiar: S.C. Chemical Company S.R.L., valoare: 35 000 000 ROL, contribuție M.S. Secula 100% Buget anual mediu grant TUASI 2005: 167 938 756 ROL; 35 000 000 /167 938 756 => 0,208 x 30 x 1 =6,252 (certificat de către Polytech, D.M.M.P. - U.T.I.)	6,252
P	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională în calitate de MEMBRU (Certificate de TUIASI)	
	P4 <i>Noi materiale cu proprietăți optice pentru hârtie securizată</i> , PN-III-P2-2.1-PED-2019-4825, director proiect Prof. Dr. ing. Teodor Măluțan, 2020-2022. Buget total TUIASI 500 000 RON; Buget 2020-2021: 323 200 RON contribuție M.S. Secula (2020: timp de lucru 100%, buget salarii 28,5%; 2021: 100%;28,16%) => 28% Buget anual mediu grant TUASI 2020: 106 413 RON; 323 200 /106 413 => 3,037 x 30 x 0,28 =25,513 (certificat de către Polytech, D.M.M.P. - U.T.I.)	25,513
	P5 <i>Platforme teranostice antitumorale pe bază de carbon dots și matrice polimerice (TERADOT)</i> , PN-III-P1-1.2-PCCDI-2017-0083, director proiect Acad. Prof. Dr. Ing. Bogdan C. Simionescu, 2018-2020, Buget total 5.287.500, Buget TUIASI 2 115 000 RON contribuție M.S. Secula (2018: timp de lucru 100%, buget salarii 2%; 2019: 100%;10,5%; 2020: 100%;18%; 2021: 2%;5%) => 8% Buget anual mediu grant TUASI 2017: 64 948 RON; 2 115 000 /64 948 => 32,564 x 30 x 0,08 =64,97 (certificat de către Polytech, D.M.M.P. - U.T.I.)	78,154

P6 <i>Nanocompozite electroluminescente inovative pentru o noua abordare în domeniul dispozitivelor optoelectronice de tip PLED</i> – Grant PN-II-ID-PCE-2011-3-0708, director proiect Prof. dr. ing. Marcel Popa, august 2012 – decembrie 2015. Buget 1 418 800 RON contribuție M.S. Secula 15% Buget anual mediu grant TUASI 2012: 140 987 RON; $1\,418\,800 / 140\,987 \Rightarrow 10,063 \times 30 \times 0,15 = 30,19$ (certificat de către Polytech, D.M.M.P. - U.T.I.)	45,285
P7 Noi tipuri de materiale nanocompozite cu aplicatii in domeniul electronicii si senzorilor electrochimici – Grant PNII-IDEI Nr. 357/2008, COD CNCSIS 721, Director proiect Șef Lucr. dr. ing. Doina Sibiescu, mai 2009 – decembrie 2011, Buget 507 750 RON contribuție M.S. Secula 15% Buget anual mediu grant TUASI 2009: 118 282 RON; $507\,750 / 118\,282 \Rightarrow 4,293 \times 30 \times 0,15 = 19,317$ (certificat de către Polytech, D.M.M.P. - U.T.I.)	19,317
P8 <i>Cercetări privind uscarea gazelor prin adsorbție pe materiale compozite cu matrice poroasă</i> – Grant PNII-IDEI Nr. 63/2007, COD CNCSIS 608, director proiect Prof. dr. ing. Stelian Petrescu, noiembrie 2007 – iulie 2010. Buget 442 732 RON contribuție M.S. Secula (2007: timp de lucru 100%, buget salarii 30%; 2008: 100%;30%; 2009: 100%;30%; 2010: 100%;30%) $\Rightarrow 30\%$ Buget anual mediu grant TUASI 2007: 41 408 RON; $442\,732 / 41\,408 \Rightarrow 10,692 \times 30 \times 0,3 = 84,57$ (certificat de către Polytech, D.M.M.P. - U.T.I.)	96,227
TOTAL Proiecte de cercetare-dezvoltare	449,098
TOTAL GENERAL	559,755

Note:

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

- I - indicativul (T1, T2 etc.; Ca1, Ca2 etc.; ...), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1, I1** etc., după caz);
- II - autorii în ordinea din publicație, cu scriere "bold" **a candidatului**;
- III - *titlul*, scris "italic";
- IV - editura sau revista sau manifestarea și/sau alte elemente de localizare, după caz;
- V - intervalul de pagini din publicație, respectiv, pp ...-..., numărul total de pagini, respectiv, ... pg., sau alte date similare, după caz;
- VI - anul sau perioada de realizare, după caz;

- (2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; ...), lucrările sunt în ordine invers cronologică;
- (3) În cazul în care o grupă de lucrări nu se regăsește în activitatea candidatului, respectiva grupă poate fi eliminată din listă;
- (4) Candidații au libertatea să completeze lista și cu alte grupe de lucrări.

Data: 10.01.2022

Candidat,
C.S. II Dr. ing. Marius Sebastian Secula