

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE CHIMICA SI PROTECTIA MEDIULUI „Cristofor Simionescu”
DEPARTAMENTUL DE INGINERIE ORGANICĂ, BIOCHIMICĂ ȘI ALIMENTARĂ

Concurs pentru ocuparea postului de **conferențiar**, poz. 8

Disciplinele postului: Conservarea Produselor Alimentare

Chimie Generală

Chimie

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de
conferențiar universitar

publicat în Monitorul Oficial al României, Partea a III-a, nr. 782 din data de 24.XI.2020

Candidat: Muresan Emil Ioan / Data nașterii: 22.02.1979 Funcția actuală: sef de lucrari,

Data numirii în funcția actuală: 1.10.2012 Instituția: Universitatea Tehnică Gheorghe Asachi din Iasi

Se preia tabelul și definițiile corespunzătoare domeniului științific aferent, conform Anexei TUIASI.POB.08-A1.3.

Anexa nr. 8. Comisia de inginerie chimică, inginerie medicală, știința materialelor și nanomateriale

Standarde minime naționale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare - dezvoltare

(Modul de îndeplinire a standardelor minime naționale va fi prezentat în mod explicit și va trebui însoțit de dovezi)

Indicatori de performanță	Număr impus de realizări	Număr de realizări ale candidatului
NTOP Număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal	NTOP ≥ 2	NTOP = 3

NP Număr de articole în reviste ISI la care candidatul este autor principal	NP ≥ 10	NP = 18
FIC Factor de impact cumulat	FIC ≥ 15	FIC = 41,780
NC număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)	NC ≥ 50	145
NCO număr cotate de cercetare-dezvoltare-inovare obținute prin competiție la nivel național	1	2

NTOP = număr de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs.

FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

NC = număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)

NCO = număr cotate de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare – dezvoltare – inovare cu terți în valoare minimă echivalentă cu 10.000 Euro

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua în considerare dacă la data publicării revista era indexată ISI, iar la data de înscriere a candidatului articolele sunt vizibile în WOS sau dacă se prezintă cu reprinturi (inclusive cu paginația revistei)

Data: 18.12.2020

Candidat
Muresan Emil Ioan

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
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Concurs pentru ocuparea postului de **conferențiar, poz. 8**

Disciplinele postului: Conservarea Produselor Alimentare

Chimie Generală

Chimie

Domeniul Inginerie chimică

FIȘA DE VERIFICARE **a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de** **conferențiar universitar**

publicat în Monitorul Oficial al României nr. 782 Partea a III-a din data de 24.XI.2020

Candidat: Muresan Emil Ioan / Data nașterii: 22.02.1979 Funcția actuală: șef de lucrari,

Data numirii în funcția actuală: 1.10.2012 Instituția: Universitatea Tehnică Gheorghe Asachi din Iasi

În conformitate cu **Ordinul nr. 3482 din 2016 privind aprobarea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare**, în **ANEXA nr. 8: COMISIA INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE** sunt prevăzute următoarele

NTOP = număr de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs.

FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

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NC = număr total de citări (din baza SCOPUS) (se exclud autocitățile candidatului)

NCO = număr cotate de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare –dezvoltare –inovare cu terți în valoare minimă echivalentă cu 10.000 Euro

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua în considerare dacă la data publicării revista era indexată ISI, iar la data de înscriere a candidatului articolele sunt vizibile în WOS sau dacă se prezintă cu reprinturi (inclusive cu paginația revistei)

1. Concurs de Conferențiar/CS II
Standarde minimale (cumulative):

a) **NTOP** ≥ 2

b) **NP** ≥ 10

c) **FIC** ≥ 15

În acest caz în calculul FIC se ține cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal.

d) **NC** ≥ 50

Brevetele naționale (FI = 1) și internaționale (FI = 3) intră în calculul FIC de la punctual c)

e) **NCO** 1 (în calitate de director proiect/Responsabil proiect)

DOCUMENTE JUSTIFICATIVE pentru FIȘA DE VERIFICARE A STANDARDELOR NAȚIONALE

LISTA DE LUCRĂRI ISI zona roșie – NTOP

Indicatori de performanță	Număr impus de realizări	Număr de realizări ale candidatului
NTOP Număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal	NTOP ≥ 2	NTOP = 3

1. **Emil Ioan Muresan**, Mariana Diaconu, Carmen Zaharia, Genoveva Rosu, Angela Danila, Aurel Pui, Bioactive Textiles Obtained by Using Aqueous Extracts of Vine Leaves, Fibers and Polymers (Fiber Polym), 2020, Vol.21, No.11, p. 2505-2512, DOI10.1007/s12221-020-1153-5, <https://link.springer.com/article/10.1007/s12221-020-1153-5> , IF = 1,797
2. **Emil Ioan Muresan**, Doina Lutic, Mioara Dobrota, Adina Coroaba, Florica Doroftei, Mariana Pinteala, Multimodal porous zirconium silicate macrospheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid, Applied Catalysis A-General (Appl Catal A-Gen), 2018, vol. 556, p. 29–40, DOI: [10.1016/J.APCATA.2018.02.024](https://doi.org/10.1016/J.APCATA.2018.02.024),

<https://doi.org/10.1016/j.apcata.2018.02.024>, WOS: 000430780000004, EID: 2-s2.0-85042718523, print ISSN 0926-860X; eISSN: 1873-3875, IF = 4.523

3. **Emil Ioan Muresan**, Doina Lutic, Gabriela Lisa, Aurel Pui, Mesoporous aluminosilicate macrospheres obtained by spray gelling technique, Journal of Sol-Gel Science and Technology (J Sol-Gel Sci Techn), 2017, vol. 81, nr. 3, p. 934-944, <https://doi.org/10.1007/s10971-016-4238-2>, WOS: 000396156700035, EID: 2-s2.0-84992344981, Print ISSN 0928-0707, Online ISSN 1573-4846, IF = 1,575

NUMĂR DE ARTICOLE ÎN REVISTE ISI LA CARE CANDIDATUL ESTE AUTOR PRINCIPAL (NP)

NP	NP ≥ 10	NP = 18
Număr de articole în reviste ISI la care candidatul este autor principal		

Nr	Autori	Titlu	An	Revistă	Volum	Pagini	Factor de impact	Număr de autori	Factor de impact cumulat
1	Emil Ioan Muresan , Mariana Diaconu, Carmen Zaharia, Genoveva Rosu, Angela Danila, Aurel Pui	Bioactive Textiles Obtained by Using Aqueous Extracts of Vine Leaves	2020	Fibers and Polymers (Fiber Polym)	21	2505-2512	1,797	6*	1,797
2	Emil Ioan Muresan , Teodor Malutan, Doina Lutic, Adrian Puitel, Nicanor Cimpoeșu, Bogdan Istrate	Macrospherical porous metallosilicate materials obtained by the multi-templating technique: characterization and applications,	2020	Environmental Engineering and Management Journal	19	195-204	0	6	0

3	Emil Ioan Muresan, Genoveva Rosu, Angela Danila, Mioara Drobota, Florica Doroftei, Radu Cezar Doru	Improving the properties of the polyester fabrics by grafting with 3-chloro-2-hydroxypropyl acrylate	2019	Journal of Engineered Fibers and Fabrics (JEFF)	14	1 - 9	0,814	6*	0,814
4	Emil Ioan Muresan, Aurel Pui, Teodor Măluțan, Adina Coroabă, Nicanor Cimpoesu, Bogdan Istrate, Mariana Pinteală	Hard meso/macroporous iron oxide/iron silicate microspheres obtained by the multi-templating technique	2019	Journal of Chemical Technology and Biotechnology (J. Chem. Technol. Biot.),	94 (9)	2888-2898	2,750	7*	2,75
5	Emil Ioan Muresan, Doina Lutic, Mioara Dobrota, Adina Coroaba, Florica Doroftei, Mariana Pinteala	Multimodal porous zirconium silicate microspheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid	2018	Applied Catalysis A-General (Appl Catal A-Gen)	556	29 - 40	5.006	6*	5,006
6	Emil Ioan Muresan, Doina Lutic, Gabriela Lisa, Aurel Pui	Mesoporous aluminosilicate microspheres obtained by spray gelling technique	2017	Journal of Sol-Gel Science and Technology (J Sol-Gel Sci Techn)	81 (3)	934 - 944	2,088	4*	2,088
7	Emil Ioan Muresan, Carmen Zaharia, Augustin Muresan, Angela Cerempei, Cezar Doru Radu	Studies on the Adsorption of Dyes Used in the Textile Industry Using Metallosilicate Beads as Adsorbents	2016	Revista de Chimie (REV CHIM Bucharest),	67 (6)	1232 - 1237	1,755	5*	1,755
8	Emil Ioan Muresan, Adrian Puitel, Aurel Pui, Cezar Doru Radu, Daniel Tampu, Nicanor Cimpoiesu , Ion Sandu	Hierarchically bimodal porous metallosilicate catalysts for acetolysis of epichlorohydrin	2016	Revista de Chimie (REV CHIM Bucharest)	67 (4)	659 - 664	1,755	7*	1,755
9	Emil Ioan Muresan, Cristina Piroi, Dorina Creanga , Lucia Stelea, Lacramioara Oprica, Ion Sandu	Glycidyl esters used for multifunctional finishing of textile materials	2016	Revista de Chimie (REV CHIM Bucharest)	67 (5)	871 - 875	1,755	6*	1,755
10	Emil Ioan Muresan, Nicanor Cimpoesu,	Obtaining, characterization and using of metallosilicate beads for the adsorption of Direct	2015	Revista de Chimie (REV CHIM	66 (10)	1663 - 1670	1,755	5*	1,755

	Angela Cerempei, Daniel Timpu, Ioan Gabriel Sandu	Red 95 Dye		Bucharest)					
11	Emil Ioan Muresan, Nicanor Cimpoesu, Alexandra Bargan, Bogdan Istrate	Effect of the template on the textural properties of the macrospherical trimodal metallosilicate materials	2015	Journal of Inorganic and Organometallic Polymers and Materials (J Inorg Organomet Polym)	25	1060 - 1068	1,941	4*	1,941
12	Emil Ioan Muresan, Mioara Drobota, Alexandra Bargan, Corina Ana Maria Dumitriu	Hard porous chromium containing microspheres as new catalysts for the esterification reaction of acetic acid with epichlorohydrin	2014	Central European Journal of Chemistry (Cent Eur J Chem.)	12 (4)	528 - 536	1,216	4*	1,216
13	Emil Ioan Muresan, Vasilica Popescu, Ion Sandu	Synthesis and characterization of hierarchical metallosilicate macrospherical catalysts	2014	Revista de Chimie (REV CHIM Bucharest)	65 (9)	1029 - 1035	1,755	3*	1,755
14	Emil Ioan Muresan, Gina Balan, Vasilica Popescu	Durable hydrophobic treatment of cotton fabrics with glycidyl stearate	2013	Industrial and Engineering Chemistry Research (Ind Eng Chem Res)	52 (18)	6270 - 6276	3,573	3*	1,191
15	Emil Ioan Muresan, Teodor Maluțan	Studies concerning the anion exchange resins catalyzed esterification of epichlorohydrin with organic acids	2009	Chemical Industry & Chemical Engineering Quarterly (Chem Ind Chem Eng Q),	15 (3)	169 - 174	0,720	2*	0,720
16	Emil Ioan Muresan, Spiridon Oprea, Vasile Hulea, Teodor Malutan, Mihai Vata	Kinetic studies for the esterification of acetic acid with epichlorohydrin over an anion exchange resin catalyst	2008	Central European Journal of Chemistry (Cent Eur J Chem) / Open Chemistry	6 (3)	419 - 428	1,216	5*	1,216
17	Emil Ioan Muresan, Spiridon Oprea, Teodor Malutan, Mihai Vata	Esterification of palmitic acid with epichlorohydrin on anion exchange resin catalyst	2007	Central European Journal of Chemistry (Cent Eur J Chem) / Open Chemistry	5 (3)	715 - 726	1,216	4*	1,216
18	Emil Ioan Muresan, Spiridon Oprea, Vasile Hulea, Nicolae Georgescu	Esterificarea epiclorhidrinei cu acid acetic pe rășini schimbătoare de ioni	2007	Revista de Chimie (Rev Chim Bucharest)	58 (6)	574 - 578	1,755	4	1,755

FACTOR DE IMPACT CUMULAT (FIC)

Indicatori de performanță			Număr impus de realizări		Număr de realizări ale candidatului				
FIC Factor de impact cumulat			FIC ≥ 15		FIC = 41,780				
Nr	Autori	Titlu	An	Revistă	Volum	Pagini	Factor de impact	Număr de autori	Factor de impact cumulat
1	Emil Ioan Muresan , Mariana Diaconu, Carmen Zaharia, Genoveva Rosu, Angela Danila, Aurel Pui	Bioactive Textiles Obtained by Using Aqueous Extracts of Vine Leaves	2020	Fibers and Polymers (Fiber Polym)	21	2505-2512	1,797	6*	1,797
2	Carmen Zaharia, Mariana Diaconu, Emil Ioan Muresan , Angela Danila, Alina Popescu, Genoveva Rosu	Bioactive emulsions with beneficial antimicrobial application in textile material production	2020	Cellulose			4,21	6	0,70
3	Emil Ioan Muresan , Teodor Malutan, Doina Lutic, Adrian Puitel, Nicanor Cimpoeșu, Bogdan Istrate	Macrospherical porous metallosilicate materials obtained by the multi-templating technique: characterization and applications,	2020	Environmental Engineering and Management Journal	19	195-204	0	6	0
4	Vasile Ciprian Macarel, Cezar Doru Radu, Liliana Verestiuc, Florina Daniela Ivan, Eugen Ulea, Florin Lipsa, Mihaela Andreea Florea, Emil Ioan Muresan , Camelia Tamas, Cristina Piroi, Corneliu Munteanu	Researches Concerning Chemical Modifications of Hair Keratin	2019	Revista de Chimie (Rev Chim Bucuresti)	70	2091 - 2095	1,755	11	0,16
5	Emil Ioan Muresan , Genoveva Rosu, Angela Danila,	Improving the properties of the polyester fabrics by grafting with 3-chloro-2-hydroxypropyl acrylate	2019	Journal of Engineered Fibers and Fabrics (JEFF)	14	1 - 9	0,814	6*	0,814

	Mioara Drobota, Florica Doroftei, Radu Cezar Doru								
6	Angela Danila, Emil Ioan Muresan , Alina Popescu , Vlad Rotaru, Cristina Istrate	The potential of aroma textiles in North-East Romania	2019	Industria Textila	70 (5)	487 - 492	0	5	0
7	Emil Ioan Muresan , Aurel Pui, Teodor Măluțan, Adina Coroabă, Nicanor Cimpoesu, Bogdan Istrate, Mariana Pinteală	Hard meso/macroporous iron oxide/iron silicate microspheres obtained by the multi-templating technique	2019	Journal of Chemical Technology and Biotechnology (J. Chem. Technol. Biot.),	94 (9)	2888-2898	2,750	7*	2,75
8	Angela Danila, Carmen Zaharia, Daniela Suteu, Emil Ioan Muresan , Gabriela Lisa, Sinem Yaprak Karavana, Ali Toprak, Alina Popescu, Laura Chirila	Essential mint oil-based emulsions: preparation and characterization	2019	Industria Textila	70 (1)	83 - 87	0	9	0
9	Emil Ioan Muresan , Doina Lutic, Mioara Dobrota, Adina Coroaba, Florica Doroftei, Mariana Pinteala	Multimodal porous zirconium silicate microspheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid	2018	Applied Catalysis A-General (Appl Catal A-Gen)	556	29 - 40	5.006	6*	5,006
10	Maria Larion, Emil Ioan Muresan , Cezar Doru Radu, Ion Sandu, Angela Cerempei, Nicanor Cimpoesu	Synthesis, Characterization and Use of Supported Co/ γ -Al ₂ O ₃ for the Removal of Reactive Blue 19 from Aqueous Solutions	2018	Revista de Chimie (Rev Chim Bucharest)	69 (1)	228 - 231	1,755	6	0,292
11	Emil Ioan Muresan , Doina Lutic, Gabriela Lisa, Aurel Pui	Mesoporous aluminosilicate microspheres obtained by spray gelling technique	2017	Journal of Sol-Gel Science and Technology (J Sol-Gel Sci Techn)	81 (3)	934 - 944	2,088	4*	2,088
12	Cezar Doru Radu, Angela Danila, Ion Sandu,	Fibrous polymers in textile prospect for tissue engineering development	2017	Revista de Chimie (Rev Chim Bucharest)	68 (6)	1345-1351	1,755	6	0,292

	Emil Ioan Muresan, Ioan Gabriel Sandu, Elena Daciana Branisteanu								
13	Angela Cerempei, Emil Ioan Muresan, Nicanor Cimpoesu, Cătălin Carp-Cărare, Cristina Rimbu	Dyeing and antibacterial properties of aqueous extracts from quince (Cydonia oblonga) leaves	2016	Industrial Crops and Products (Ind Crop Prod)	94 (12)	216 - 225	4,244	5	0,848
14	Angela Cerempei, Emil Ioan Muresan, Laura Chirila, Ion Sandu	Functionalization of Linen Knitted Fabric with Beeswax/Essential Oil Systems	2016	Revista de Chimie (REV CHIM Bucharest)	67 (10)	2039-2042	1,755	4	0,438
15	Emil Ioan Muresan, Carmen Zaharia, Augustin Muresan, Angela Cerempei, Cezar Doru Radu	Studies on the Adsorption of Dyes Used in the Textile Industry Using Metallosilicate Beads as Adsorbents	2016	Revista de Chimie (REV CHIM Bucharest),	67 (6)	1232 - 1237	1,755	5*	1,755
16	Emil Ioan Muresan, Adrian Puitel, Aurel Pui, Cezar Doru Radu, Daniel Tampu, Nicanor Cimpoiesu , Ion Sandu	Hierarchically bimodal porous metallosilicate catalysts for acetolysis of epichlorohydrin	2016	Revista de Chimie (REV CHIM Bucharest)	67 (4)	659 - 664	1,755	7*	1,755
17	Emil Ioan Muresan, Cristina Piroi, Dorina Creanga , Lucia Stelea, Lacramioara Oprica, Ion Sandu	Glycidyl esters used for multifunctional finishing of textile materials	2016	Revista de Chimie (REV CHIM Bucharest)	67 (5)	871 - 875	1,755	6*	1,755
18	Emil Ioan Muresan, Nicanor Cimpoesu, Angela Cerempei, Daniel Timpu, Ioan Gabriel Sandu	Obtaining, characterization and using of metallosilicate beads for the adsorption of Direct Red 95 Dye	2015	Revista de Chimie (REV CHIM Bucharest)	66 (10)	1663 - 1670	1,755	5*	1,755
19	Oana Borhan, Augustin Muresan, Cezar Doru Radu, Emil Ioan Muresan, Cristina Rimbu, Ioan Gabriel Sandu	Silver nanoparticles used to obtain cellulosic materials with antibacterial properties	2015	Revista de Chimie (REV CHIM Bucharest),	66 (11)	1796 - 1801	1,755	6	1,755
20	Angela Cerempei,	Antimicrobial Controlled Release Systems for the	2015	Fibers and	16 (8)	1688 - 1695	1,797	6	0,299

	Eleonora Guguianu, Emil Ioan Muresan , Cristina Horhoge, Cristina Rîmbu, Oana Borhan	Knitted Cotton Fabrics Based on Natural Substances		Polymers (Fiber Polym)					
21	Emil Ioan Muresan , Nicanor Cimpoesu, Alexandra Bargan, Bogdan Istrate	Effect of the template on the textural properties of the macrospherical trimodal metallosilicate materials	2015	Journal of Inorganic and Organometallic Polymers and Materials (J Inorg Organomet Polym)	25	1060 - 1068	1,941	4*	1,941
22	Vasilica Popescu, Ion Sandu, Emil Ioan Muresan , Bogdan Istrate, Gabriela Lisa	Effects of the pre-treatment with atmospheric - air plasma followed by conventional finishing	2014	Revista de Chimie (REV CHIM Bucharest),	65 (6)	676 - 683	1,755	5	0,351
23	Emil Ioan Muresan , Mioara Drobeta, Alexandra Bargan, Corina Ana Maria Dumitriu	Hard porous chromium containing microspheres as new catalysts for the esterification reaction of acetic acid with epichlorohydrin	2014	Central European Journal of Chemistry (Cent Eur J Chem.)	12 (4)	528 - 536	1,216	4*	1,216
24	Vasilica Popescu, Augustin Muresan, Ovidiu Constandache, Gabriela Lisa, Emil Ioan Muresan , Corneliu Munteanu, Ion Sandu	Tinctorial response of recycled PET fibers to chemical modifications during saponification and aminolysis reactions	2014	Industrial and Engineering Chemistry Research (Ind Eng Chem Res),	53 (43)	16652–16663	3,573	7	0,51
25	Angela Cerempei, Emil Ioan Muresan , Ion Sandu, Laura Chirilă, Ion Gabriel Sandu	Textile materials with controlled release of rosemary essential oil	2014	Revista de Chimie (REV CHIM Bucharest)	65 (10)	1154-1157	1,755	5	0,351
26	Emil Ioan Muresan , Vasilica Popescu, Ion Sandu	Synthesis and characterization of hierarchical metallosilicate macrospherical catalysts	2014	Revista de Chimie (REV CHIM Bucharest)	65 (9)	1029 - 1035	1,755	3*	1,755
27	Tatiana Constandache, Angela Cerempei, Emil Ioan Muresan , Vasilica Popescu, Mioara Drobeta, Ion Sandu	Modified organic pigments used in polypropylene coloration	2014	Revista de Chimie (REV CHIM Bucharest),	65 (8)	892 - 896	1,755	6	0,292
28	Gina Balan,	Alternative hydrophobic treatments applied on	2014	Revista de Chimie	65 (9)	1052-1057	1,755	6	0,292

	Emil Ioan Muresan, Vasilica Popescu, Angela Cerempei, Augustin Muresan, Ion Sandu	dyed fabrics		(REV CHIM Bucharest)					
29	Angela Cerempei, Emil Ioan Muresan, Nicanor Cimpoesu	Biomaterials with controlled release of geranium essential oil	2014	Journal of Essential Oil Research (J Essent Oil Res)	26 (4)	267 - 273	1,148	3	0,382
30	Vasilica Popescu, Emil Ioan Muresan	Performances of chitosan grafted onto surface of polyacrylonitrile functionalized through amination reactions	2013	Industrial and Engineering Chemistry Research (Ind Eng Chem Res)	52 (37)	13252-13263	3,573	2	1,786
31	Emil Ioan Muresan, Gina Balan, Vasilica Popescu	Durable hydrophobic treatment of cotton fabrics with glycidyl stearate	2013	Industrial and Engineering Chemistry Research (Ind Eng Chem Res)	52 (18)	6270 - 6276	3,573	3*	1,191
32	Vasilica Popescu, Emil Ioan Muresan, Ana Maria Grigoriu	Monochlorotriazinyl- β -cyclodextrin grafting onto polyester fabrics and films	2011	Carbohydrate Polymers (Carbohyd Polym)	86 (2)	600 - 611	7,182	3	2,394
33	Angela Cerempei, Luminița Ciobanu, Emil Muresan, Corina Măluțan, Romen Butnaru	Textile Materials Functionalised with Natural Biologically Active Compounds	2010	Romanian Biotechnological Letters (Rom Biotech Lett)	15 (5)	5537-5544	0,765	5	0,153
34	Emil Ioan Muresan, Teodor Maluțan	Studies concerning the anion exchange resins catalyzed esterification of epichlorohydrin with organic acids	2009	Chemical Industry & Chemical Engineering Quarterly (Chem Ind Chem Eng Q),	15 (3)	169 - 174	0,720	2*	0,720
35	Emil Ioan Muresan, Spiridon Oprea, Vasile Hulea, Teodor Malutan, Mihai Vata	Kinetic studies for the esterification of acetic acid with epichlorohydrin over an anion exchange resin catalyst	2008	Central European Journal of Chemistry (Cent Eur J Chem) / Open Chemistry	6 (3)	419 - 428	1,216	5*	1,216
36	Emil Ioan Muresan, Spiridon Oprea, Teodor Malutan, Mihai Vata	Esterification of palmitic acid with epichlorohydrin on anion exchange resin catalyst	2007	Central European Journal of Chemistry (Cent Eur J Chem) / Open Chemistry	5 (3)	715 - 726	1,216	4*	1,216
37	Emil Ioan Muresan, Spiridon Oprea,	Esterificarea epichlorohidrinei cu acid acetic pe rășini schimbătoare de ioni	2007	Revista de Chimie (Rev Chim	58 (6)	574 - 578	1,755	4	1,755

	Vasile Hulea, Nicolae Georgescu			Bucharest)					
38	Marcel Popa, Ana Irina Ecsner, Rodica Muresan, Emil Ioan Muresan , Ghiocel Ioanid, Aurelia Ioanid	Studies concerning the rising of hydrophilicity of some textile fabrics through treatment in cold plasma and grafting with vinylic monomers	2005	Eurasian Chemico- Technological Journal (Eurasian Chem Tech J)	7(2)	123-131	0	6	0
	TOTAL								41,780

NUMĂR TOTAL DE CITĂRI (DIN BAZA SCOPUS) (SE EXCLUD AUTOCITĂRILE CANDIDATULUI) NC

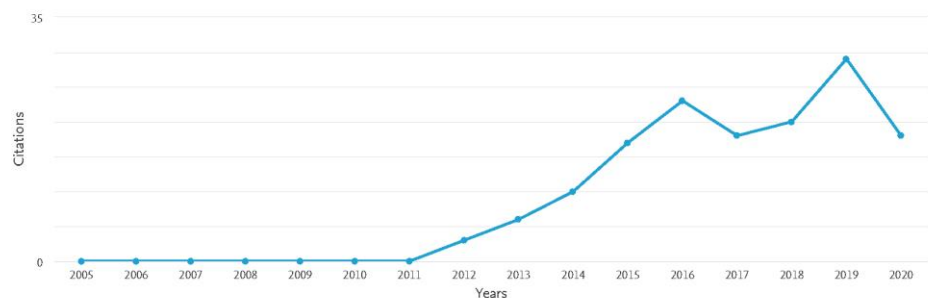
NC număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)	NC ≥ 50	NC = 145
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Author h-index: 7 [View h-graph](#)37 Cited Documents from "Mureşan, Emil Ioan" and "Muresan, Ioan Emil" [+ Save to list](#)Date range: 2005 to 2020 ☐ Exclude self citations of selected authors ☐ Exclude self citations of all authors ☐ Exclude citations from books [Update](#)Sort on: [Date \(newest\)](#)☐ Page ☐ Remove

Documents		Citations																		<2005		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Subtotal	>2020	Total
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<input type="checkbox"/>	5. Beeswax-based emulsions for topical application	2019																					0		0															
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<input type="checkbox"/>	7. Researches concerning chemical modifications of hair keratin	2019																					0		0															
<input type="checkbox"/>	8. Hard meso/macroporous iron oxide/iron silicate microspheres ...	2019																					0		0															

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Nr. crt.	Lista citărilor	Numărul citărilor NC
1	<p>Emil Ioan Muresan, Genoveva Rosu, Angela Danila, Mioara Drobota, Florica Doroftei, Radu Cezar Doru, Improving the properties of the polyester fabrics by grafting with 3-chloro-2-hydroxypropyl acrylate, <i>Journal of Engineered Fibers and Fabrics (JEFF)</i>, 2019, vol. 14, p. 1-9, https://doi.org/10.1177/1558925019851340 , ISSN: 1558-9250, IF = 0,814</p> <p><i>Citată de:</i> 1. Liu, J., He, H., Yu, Z., Suryawanshi, A., Li, Y., Lin, X., & Sun, Z. (2020). Investigation of temperature-responsive and thermo-physiological comfort of modified polyester fabric with Sericin/PNIPAAm/Ag NPs interpenetrating polymer network hydrogel. <i>Textile Research Journal</i>, 90(23-24), 2622-2638. doi:10.1177/0040517520931475</p>	1
2	<p>Emil Ioan Muresan, Doina Lutic, Mioara Dobrota, Adina Coroaba, Florica Doroftei, Mariana Pinteala, Multimodal porous zirconium silicate macrospheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid, <i>Applied Catalysis A-General (Appl Catal A-Gen)</i>, 2018, vol. 556, p. 29–40, DOI: 10.1016/J.APCATA.2018.02.024, https://doi.org/10.1016/j.apcata.2018.02.024, WOS: 000430780000004, EID: 2-s2.0-85042718523, print ISSN 0926-860X; eISSN: 1873-3875, IF = 4.63</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Mahmoud, M. E., Amira, M. F., Abouelanwar, M. E., & Seleim, S. M. (2020). Catalytic reduction of nitrophenols by a novel assembled nanocatalyst based on zerovalent copper-nanopolyaniline-nanozirconium silicate. <i>Journal of Molecular Liquids</i>, 299 doi:10.1016/j.molliq.2019.112192 2. Mahmoud, M. E., Amira, M. F., Seleim, S. M., & Abouelanwar, M. E. (2021). Behavior of surface coated zirconium silicate-nanopolyaniline with nano zerovalent copper (ZrSiO₄@NPANI@nZVCu) toward catalytic reduction of nitroanilines. <i>Materials Chemistry and Physics</i>, 258 doi:10.1016/j.matchemphys.2020.123890 3. Mahmoud, M. E., Amira, M. F., Seleim, S. M., & Abouelanwar, M. E. (2019). Solvent free microwave synthesis of nano polyaniline-zirconium silicate nanocomposite for removal of nitro derivatives. <i>Journal of Industrial and Engineering Chemistry</i>, 77, 371-384. doi:10.1016/j.jiec.2019.05.001 4. Ramesh, A., Tamizhdurai, P., & Shanthi, K. (2019). Catalytic hydrodeoxygenation of jojoba oil to the green-fuel application on ni-MoS/Mesoporous zirconia-silica catalysts. <i>Renewable Energy</i>, 138, 161-173. doi:10.1016/j.renene.2019.01.076 5. Wang, J., Li, J., & Cai, W. (2020). Ordered spherical mesoporous composite catalyst of ZnO-based fe-cu-zr oxide preparation and mechanism of its degradation of butyl acetate. [介孔ZnO负载Fe-Cu-Zr复合催化剂用于催化燃烧降解乙酸丁酯] <i>Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae</i>, 40(5), 1640-1649. doi:10.13671/j.hjxxb.2019.0470 	6

	6. Wu, Y., Du, H., Gao, Y., Liu, X., Yang, T., Zhao, L., Zhang, J. (2019). Syntheses of four novel silicate-based nanomaterials from coal gangue for the capture of CO ₂ . <i>Fuel</i> , 258 doi:10.1016/j.fuel.2019.116192	
3	<p>Maria Larion, Emil Ioan Muresan, Cezar Doru Radu, Ion Sandu, Angela Cerempei, Nicanor Cimpoesu, Synthesis, Characterization and Use of Supported Co/ γ-Al₂O₃ for the Removal of Reactive Blue 19 from Aqueous Solutions, <i>Revista de Chimie (Rev Chim Bucharest)</i>, 2018, vol. 69, nr. 1, p. 228-231, WOS:000425369600046, EID: 2-s2.0-85041691972, print ISSN: 0034-7752, eISSN: 1582-9049, https://doi.org/10.37358/RC.18.1.6078, IF = 1,605</p> <p><i>Citată de:</i></p> <p>1. Cocheci, L., Lupa, L., Pop, A., Visa, A., Maranescu, B., & Popa, A. (2019). Photocatalytical degradation of congo red azo dye using phosphono-aminoacid-cd(II) pendant groups grafted on a polymeric support. <i>Revista De Chimie</i>, 70(10), 3473-3476. doi:10.37358/rc.19.10.7578</p> <p>2. Fierascu, I., Somoghi, R., Nicolae, C. A., Stanica, N., & Fierascu, R. C. (2019). Facile removal of pesticides from aqueous solutions using magnetic nanocomposites I. synthesis and characterization of the adsorbent material, <i>Revista de Chimie</i>, 70(11), 3931-3934. doi:10.37358/rc.70.11.7675</p>	2
4	<p>Cezar Doru Radu, Angela Danila, Ion Sandu, Emil Ioan Muresan, Ioan Gabriel Sandu, Elena Daciana Branisteanu, Fibrous polymers in textile prospect for tissue engineering development, <i>Revista de Chimie (Rev Chim Bucharest)</i>, 2017, vol. 68, nr. 6, p. 1345-1351, WOS: 000408702900041, EID: 2-s2.0-85023781127, print ISSN: 0034-7752, eISSN: 1582-9049, https://doi.org/10.37358/RC.17.6.5671, IF = 1,412</p> <p><i>Citată de:</i></p> <p>1. Tatu, C. S., Panaitescu, C., Marusciac, L., Sisu, A. M., Cristea, M., Puscasiu, D. A., & Tanasie, G. (2017). Adhesion and secretory profile of mesenchymal stem cells upon contact with some biomaterials. <i>Revista De Chimie</i>, 68(9), 2079-2082. doi:10.37358/rc.17.9.5827</p>	1
5	<p>Angela Cerempei, Emil Ioan Muresan, Nicanor Cimpoesu, Cătălin Carp-Cărare, Cristina Rimbu, Dyeing and antibacterial properties of aqueous extracts from quince (<i>Cydonia oblonga</i>) leaves, <i>Industrial Crops and Products (Ind Crop Prod)</i>, 2016, vol. 94, nr. 12, p. 216-225, DOI: 10.1016/j.indcrop.2016.08.018, https://doi.org/10.1016/j.indcrop.2016.08.018, WOS: 000387298100022, EID: 2-s2.0-84989907080, print ISSN: 0926-6690, eISSN: 1872-633X, IF = 3,181</p> <p><i>Citată de:</i></p> <p>1. Baci, A. M., Bejinariu, C., Corăbieru, A., Mihalache, E., Lupu-Polici, M., Baci, C., & Baci, E. R. (2019). Influence of process parameters for selective laser melting on the roughness of 3D printed surfaces in co-cr dental alloy powder. Paper presented at the <i>IOP Conference Series: Materials Science and Engineering</i>, 572(1) doi:10.1088/1757-899X/572/1/012054</p> <p>2. Benzarti, S., Belkadi, K., & Hamdi, H. (2018). Biological activities of phenolics from leaves of tunisian cydonia oblonga miller. <i>Allelopathy Journal</i>, 45(2), 229-242. doi:10.26651/allelo.j/2018-45-2-1189</p> <p>3. Bernevig-Sava, M. A., Stamate, C., Lohan, N. -, Baci, A. M., Postolache, I., Baci, C., & Baci, E. -. (2019). Considerations on the surface roughness of SLM processed metal parts and the effects of subsequent sandblasting. Paper presented at the <i>IOP Conference Series: Materials Science and</i></p>	12

	<p><i>Engineering</i>, , 572(1) doi:10.1088/1757-899X/572/1/012071</p> <p>4. Girdthep, S., Sirirak, J., Daranarong, D., Daengngern, R., & Chayabutra, S. (2018). Physico-chemical characterization of natural lake pigments obtained from caesalpinia sappan linn. and their composite films for poly(lactic acid)-based packaging materials. <i>Dyes and Pigments</i>, 157, 27-39. doi:10.1016/j.dyepig.2018.04.043</p> <p>5. Popescu, S. D., Stanciu, S., Cimpoeșu, R., Istrate, B., Știrbu, I., Ionita, I., & Prisecariu, B. A. (2019). Phases and compounds composition analyze of ZnMgCa biodegradable alloy. Paper presented at the <i>IOP Conference Series: Materials Science and Engineering</i>, , 572(1) doi:10.1088/1757-899X/572/1/012019</p> <p>6. Ren, Y., Fu, R., Fang, K., Chen, W., Hao, L., Xie, R., & Shi, Z. (2019). Dyeing cotton with tea extract based on in-situ polymerization: An innovative mechanism of coloring cellulose fibers by industrial crop pigments. <i>Industrial Crops and Products</i>, 142 doi:10.1016/j.indcrop.2019.111863</p> <p>7. Sarwar, M., Ali, S., Hussain, M. T., Atif, M., & Majeed, M. I. (2019). Cotton fabric dyeability assessment of floral extracts obtained from binary mixtures of callistemon citrinus and tagetes erecta L. <i>Journal of Natural Fibers</i>, 16(4), 484-493. doi:10.1080/15440478.2018.1426077</p> <p>8. YILMAZ, F. (2020). Application of glycyrrhiza glabra L. root as a natural antibacterial agent in finishing of textile. <i>Industrial Crops and Products</i>, 157 doi:10.1016/j.indcrop.2020.112899</p> <p>9. Zhang, X., Zhou, Y., Wei, Z., Shen, J., Wang, L., Ma, Z., & Zhang, X. (2018). Antiphytoviral toxins of actinidia chinensis root bark (ACRB) extract: Laboratory and semi-field trials. <i>Pest Management Science</i>, 74(7), 1630-1636. doi:10.1002/ps.4854</p> <p>10. Zhou, Y., Tang, R. -, Xing, T., Guan, J. -, Shen, Z. -, & Zhai, A. -. (2019). Flavonoids-metal salts combination: A facile and efficient route for enhancing the flame retardancy of silk. <i>Industrial Crops and Products</i>, 130, 580-591. doi:10.1016/j.indcrop.2019.01.020</p> <p>11. Zhu, H., Poojary, M. M., Andersen, M. L., & Lund, M. N. (2019). Effect of pH on the reaction between naringenin and methylglyoxal: A kinetic study. <i>Food Chemistry</i>, 298 doi:10.1016/j.foodchem.2019.125086</p> <p>12. Zuin, V. G., & Ramin, L. Z. (2018). Green and sustainable separation of natural products from agro-industrial waste: Challenges, potentialities, and perspectives on emerging approaches. <i>Topics in Current Chemistry</i>, 376(1) doi:10.1007/s41061-017-0182-z</p>	
6	<p>Emil Ioan Muresan, Adrian Puitel, Aurel Pui, Cezar Doru Radu, Daniel Tampu, Nicanor Cimpoesu , Ion Sandu, Hierarchically bimodal porous metallosilicate catalysts for acetolysis of epichlorohydrin, Revista de Chimie (REV CHIM Bucharest), 2016, vol. 67, nr. 4, p. 659-664, WOS: 000376549200014, EID: 2-s2.0-84981328249, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://revistadechimie.ro/pdf/MURESAN%20E%204%2016.pdf, IF = 1,232</p> <p>Citată de:</p> <p>1. Yan, Z., Tian, J., Wang, K., Nigam, K. D. P., & Luo, G. (2021). Microreaction processes for synthesis and utilization of epoxides: A review. <i>Chemical Engineering Science</i>, 229 doi:10.1016/j.ces.2020.116071</p>	1
7	<p>Angela Cerempei, Emil Ioan Muresan, Laura Chirila, Ion Sandu, Functionalization of Linen Knitted Fabric with Beeswax/Essential Oil Systems, Revista de Chimie (REV CHIM Bucharest), 2016, vol. 67, nr. 10, p. 2039-2042, WOS:</p>	1

	000388359900031, EID: 2-s2.0-85039164976, print ISSN: 0034-7752, online ISSN: 1582-9049, http://www.revistadechimie.ro/pdf/CEREMPEI%20A%2010%2016.pdf , IF = 1,232 <i>Citată de:</i> 1. Georgescu, C., Cristea, G. C., Solea, C. L., Deleanu, L., & Sandu, I. G. (2018). Flammability of some vegetal oils on hot surface. <i>Revista de Chimie</i> , 69(3), 668-673. doi:10.37358/rc.18.3.6172	
8	Emil Ioan Muresan , Cristina Piroi, Dorina Creanga , Lucia Stelea , Lacramioara Oprica , Ion Sandu, Glycidyl esters used for multifunctional finishing of textile materials, <i>Revista de Chimie (REV CHIM Bucharest)</i> , 2016, vol. 67, nr. 5, p. 871-875, WOS: 000378158100011, EID: 2-s2.0-84980605509, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/MURESAN%20E%205%2016.pdf , IF = 1,232 <i>Citată de:</i> 1. Orlandin, A., Dolcet, P., Biondi, B., Hilma, G., Coman, D., Oancea, S., Peggion, C. (2019). Covalent graft of lipopeptides and peptide dendrimers to cellulose fibers. <i>Coatings</i> , 9(10) doi:10.3390/coatings9100606 2. Pang, A. L., Ismail, H., & Abu Bakar, A. (2018). Eco-friendly coupling agent-treated kenaf/linear low-density polyethylene/poly (vinyl alcohol) composites. <i>Iranian Polymer Journal (English Edition)</i> , 27(2), 87-96. doi:10.1007/s13726-017-0588-z 3. Pang, A. L., Ismail, H., & Abu Bakar, A. (2018). Tensile properties and water absorption assessment of linear low-density Polyethylene/Poly (vinyl alcohol)/Kenaf composites: Effect of eco-friendly coupling agent. Paper presented at the <i>IOP Conference Series: Materials Science and Engineering</i> , , 309(1) doi:10.1088/1757-899X/309/1/012040	3
9	Emil Ioan Muresan , Carmen Zaharia, Augustin Muresan, Angela Cerempei, Cezar Doru Radu, Studies on the Adsorption of Dyes Used in the Textile Industry Using Metallosilicate Beads as Adsorbents, <i>Revista de Chimie (REV CHIM Bucharest)</i> , 2016, vol. 67, nr. 6, p. 1232-1237, WOS: 000385510300045, EID: 2-s2.0-84978698533, print ISSN: 0034-7752, e-ISSN: 1582-9049, http://www.revistadechimie.ro/pdf/MURESAN%20E%206%2016.pdf , IF = 1,232 <i>Citată de:</i> 1. Rehman, R., Qaseem, M., & Mitu, L. (2020). Biosorptive detoxification of cosmos red dye by raphinus sativus leaves and citrus sinensis peels from water in cost effective and ecofriendly way. <i>Revista de Chimie</i> , 71(6), 238-246. doi:10.37358/RC.20.6.8188	1
10	Oana Borhan, Augustin Muresan, Cezar Doru Radu, Emil Ioan Muresan , Cristina Rimbu, Ioan Gabriel Sandu, Silver nanoparticles used to obtain cellulosic materials with antibacterial properties, <i>Revista de Chimie (REV CHIM Bucharest)</i> , 2015, vol. 66, nr. 11, p. 1796-1801, WOS: 000368213500019, EID: 2-s2.0-84954561429, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/BORHAN%20O.pdf%2011%2015.pdf IF= 0,956 <i>Citată:</i> 1. Bumbac, M., Olteanu, R. L., Ion, R. M., & Nicolescu, C. M. (2018). Influence of temperature on the growth of silver nanoparticles synthesized using	5

	<p>salvia officinalis aqueous extract. <i>Revista de Chimie</i>, 69(8), 1934-1938. doi:10.37358/rc.18.8.6449</p> <p>2. Ghiorghe, C. A., Iovan, G., Carlescu, V., Istrate, B., Pancu, G., & Andrian, S. (2017). Comparative evaluation of hardness and elasticity modulus of tooth-colored materials for dental restoration. <i>Revista de Chimie</i>, 68(11), 2623-2627. doi:10.37358/rc.17.11.5942</p> <p>3. Ignat, L., Ignat, M. E., & Gradinaru, I. (2017). Hydroxyapatite-supported silver nanoparticles and preliminary investigations of their catalytic potential. <i>Revista de Chimie</i>, 68(6), 1469-1472. doi:10.37358/rc.17.6.5676</p> <p>4. Mocanu, A. M., Luca, C., Sandu, I., & Dunca, S. I. (2016). Synthesis, characterization and evaluation antimicrobial activity of some new derivatives theophylline sulfonyl phenoxyacetic acids. <i>Revista De Chimie</i>, 67(3), 584-588.</p> <p>5. Zegan, G., Carausu, E. M., Golovcencu, L., Botezatu, A. S., Cernei, E. R., & Anistoroaei, D. (2017). Nanoparticles deposition on mini-implants for osseo-integration and antibacterial properties improvement. <i>Revista De Chimie</i>, 68(12), 2929-2931. doi:10.37358/rc.17.12.6009</p>	
11	<p>Emil Ioan Muresan, Nicanor Cimpoesu, Angela Cerempei, Daniel Timpu, Ioan Gabriel Sandu, Obtaining, characterization and using of metallosilicate beads for the adsorption of Direct Red 95 Dye, <i>Revista de Chimie (REV CHIM Bucharest)</i>, 2015, vol. 66, nr. 10, p. 1663-1670, WOS: 000368436300026, EID: 2-s2.0-84953305273, print ISSN: 0034-7752, e-ISSN: 1582-9049, http://www.revistadechimie.ro/pdf/MURESAN%20EMIL%20I.pdf%2010%2015.pdf , IF= 0,956</p> <p><i>Citată de:</i></p> <p>1. Zhao, G., Li, C., Lian, C., Pei, F., Wang, C., & Fu, G. (2019). Synthesis of porous nano cerium oxide using starch as template and their catalytic performance investigation. [以淀粉为模板多孔纳米氧化铈的制备及其催化性能研究] <i>Research of Environmental Sciences</i>, 32(1), 52-57. doi:10.13198/j.issn.1001-6929.2018.08.10</p>	1
12	<p>Angela Cerempei, Eleonora Guguianu, Emil Ioan Muresan, Cristina Horhoge, Cristina Rîmbu and Oana Borhan, Antimicrobial Controlled Release Systems for the Knitted Cotton Fabrics Based on Natural Substances, <i>Fibers and Polymers (Fiber Polym)</i>, 2015, vol. 16, nr. 8, p. 1688-1695, DOI: 10.1007/s12221-015-4551-3, https://doi.org/10.1007/s12221-015-4551-3, WOS: 000360569900010, EID: 2-s2.0-84940404039, print ISSN: 1229-9197, eISSN: 1875-0052, IF= 1,022</p> <p><i>Citată de:</i></p> <p>1. Beşen, B. S. (2019). Production of disposable antibacterial textiles via application of tea tree oil encapsulated into different wall materials. <i>Fibers and Polymers</i>, 20(12), 2587-2593. doi:10.1007/s12221-019-9350-9</p> <p>2. Hartman, C., Popowski, Y., Raichman, D., & Amir, E. (2020). Biodegradable polymer coating for controlled release of hydrophobic functional molecules from cotton fabrics. <i>Journal of Coatings Technology and Research</i>, 17(3), 669-679. doi:10.1007/s11998-019-00278-3</p> <p>3. Simončič, B., & Tomšič, B. (2017). Recent concepts of antimicrobial textile finishes. <i>Textile finishing: Recent developments and future trends</i> (pp. 3-68) doi:10.1002/9781119426790.ch1</p>	3
13	<p>Angela Cerempei, Emil Ioan Muresan, Ion Sandu, Laura Chirilă, Ion Gabriel Sandu, Textile materials with controlled release of</p>	4

	<p>rosemary essential oil, Revista de Chimie (REV CHIM Bucharest), 2014, vol. 65, nr. 10, p. 1154-1157, WOS:000344719500007, EID: 2-s2.0-84919654013, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/CEREMPEI%20A.pdf%2010%2014.pdf IF = 0,81</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Georgescu, C., Cristea, G. C., Solea, C. L., Deleanu, L., & Sandu, I. G. (2018). Flammability of some vegetal oils on hot surface. <i>Revista De Chimie</i>, 69(3), 668-673. doi:10.37358/rc.18.3.6172 2. Lipina, A. A., Khakhin, S. N., Odintsova, O. I., Vladimirtseva, E. L., & Avakova, E. O. (2020). A rapid method for assessing the migration ability of acaricidal repellent substances when released from microcapsules. <i>Russian Journal of General Chemistry</i>, 90(9), 1781-1786. doi:10.1134/S1070363220090315 3. Parteni, O., Radu, C. -, Muresan, A., Popa, M., Ochiuz, L., Sandu, A. V., . . . Munteanu, C. (2015). Improving the obtaining factors of a chitosan hydrogel based biomaterial. <i>Revista de Chimie</i>, 66(10), 1595-1599. 4. Radulescu, D. -, Popescu, A., Danila, A., Chirila, L., & Muresan, E. I. (2019). Bioactivity and dermal toxicity of skin care textiles. Paper presented at the <i>International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM</i>, , 19(6.1) 51-59. doi:10.5593/sgem2019/6.1/S24.007 	
14	<p>Emil Ioan Muresan, Vasilica Popescu, Ion Sandu, Synthesis and characterization of hierarchical metallosilicate macrospherical catalysts, Revista de Chimie (REV CHIM Bucharest), 2014, vol. 65, nr. 9, p. 1029-1035, WOS:000343965900008, EID: 2-s2.0-84908635152, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/MURESAN%20E.pdf%209%2014.pdf IF = 0,81</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Leng, L., Zhang, H., Ren, X., Zhou, J., Sui, Z., & Zhou, X. (2016). Effect of silica chemistry on structure of ir-re bimetallic catalysts and catalysis for glycerol hydrogenolysis. <i>Huagong Xuebao/CIESC Journal</i>, 67(2), 540-548. doi:10.11949/j.issn.0438-1157.20151512 2. Parteni, O., Radu, C. -, Muresan, A., Popa, M., Ochiuz, L., Sandu, A. V., Munteanu, C. (2015). Improving the obtaining factors of a chitosan hydrogel based biomaterial. <i>Revista de Chimie</i>, 66(10), 1595-1599. 	2
15	<p>Gina Balan, Emil Ioan Muresan, Vasilica Popescu, Angela Cerempei, Augustin Muresan, Ion Sandu, Alternative hydrophobic treatments applied on dyed fabrics, Revista de Chimie (REV CHIM Bucharest), 2014, vol. 65, nr. 9, p. 1052-1057, WOS:000343965900013, EID: 2-s2.0-84908627771, ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/BALAN%20G.pdf%209%2014.pdf IF = 0,81</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Monica, P., Abdul, B., Ada, F., & Roberta, B. (2016). Wettability and comfort of cellulosic materials modified by photo grafting of non-fluorinated oligomers. <i>Cellulose</i>, 23(2), 1447-1458. doi:10.1007/s10570-016-0863-8 	1

16	<p>Angela Cerempei, Emil Ioan Muresan, Nicanor Cimpoesu, Biomaterials with controlled release of geranium essential oil, <i>Journal of Essential Oil Research (J Essent Oil Res)</i>, 2014, vol. 26, nr. 4, p. 267-273, DOI: 10.1080/10412905.2014.910711, https://doi.org/10.1080/10412905.2014.910711, WOS:000338021700006, EID: 2-s2.0-84903266342, print ISSN: 1041-2905; eISSN: 2163-8152, IF = 0,787</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Blerot, B., Baudino, S., Prunier, C., Demarne, F., Toulemonde, B., & Caissard, J. (2016). Botany, agronomy and biotechnology of pelargonium used for essential oil production. <i>Phytochemistry Reviews</i>, 15(5), 935-960. doi:10.1007/s11101-015-9441-1 2. Ge, Y., & Ge, M. (2015). Sustained broad-spectrum antimicrobial and haemostatic chitosan-based film with immersed tea tree oil droplets. <i>Fibers and Polymers</i>, 16(2), 308-318. doi:10.1007/s12221-015-0308-2 3. Gu, P., Li, B., Wu, B., Wang, J., Müller-Buschbaum, P., & Zhong, Q. (2020). Controlled hydration, transition, and drug release realized by adjusting layer thickness in alginate-Ca²⁺/poly(N-isopropylacrylamide) interpenetrating polymeric network hydrogels on cotton fabrics. <i>ACS Biomaterials Science and Engineering</i>, 6(9), 5051-5060. doi:10.1021/acsbiomaterials.0c00756 4. Radu, C. D., Cerempei, A., Salariu, M., Parteni, O., Ulea, E., & Campagne, C. (2017). The potential of improving medical textile for cutaneous diseases. Paper presented at the <i>IOP Conference Series: Materials Science and Engineering</i>, , 254(6) doi:10.1088/1757-899X/254/6/062010 5. Radu, C. D., Parteni, O., & Ochiuz, L. (2016). Applications of cyclodextrins in medical textiles — review. <i>Journal of Controlled Release</i>, 224, 146-157. doi:10.1016/j.jconrel.2015.12.046 6. Radu, C. D., Parteni, O., Sandu, I. G., Lisa, G., Munteanu, C., & Lupu, V. V. (2016). Specific characterization of a multilayer biomaterial controlled release of tacrolimus. <i>Revista De Chimie</i>, 67(1), 199-203. 7. Szutt, A., Dołhańczuk-Sródka, A., & Sporek, M. (2019). Evaluation of chemical composition of essential oils derived from different pelargonium species leaves. <i>Ecological Chemistry and Engineering S</i>, 26(4), 807-816. doi:10.1515/eces-2019-0057 8. Zeighampour, F., Alihosseini, F., Morshed, M., & Rahimi, A. A. (2018). Comparison of prolonged antibacterial activity and release profile of propolis-incorporated PVA nanofibrous mat, microfibrinous mat, and film. <i>Journal of Applied Polymer Science</i>, 135(6) doi:10.1002/app.45794 	8
17	<p>Emil Ioan Muresan, Mioara Drobota, Alexandra Barga, Corina Ana Maria Dumitriu, Hard porous chromium containing macrospheres as new catalysts for the esterification reaction of acetic acid with epichlorohydrin, <i>Central European Journal of Chemistry (Cent Eur J Chem)</i>, 2014, vol. 12, nr. 4, p. 528-536, DOI: 10.2478/s11532-013-0403-4, WOS:000329938200010, print ISSN: 1895-1066; eISSN: 1644-3624, IF = 1,253</p> <p><i>Citată de:</i></p> <ol style="list-style-type: none"> 1. Bakhtin, S., Beshpal'ko, Y. N., & Shved, E. (2016). Catalytic activity of tertiary amines with antisymbatic change of basic and nucleophilic properties in the chloroxypropylation reaction of acetic acid. <i>Reaction Kinetics, Mechanisms and Catalysis</i>, 119(1), 139-148. doi:10.1007/s11144-016-1051-4 2. Bakhtin, S., Shved, E., & Beshpal'ko, Y. (2017). Nucleophile-electrophile interactions in the reaction of oxiranes with carboxylic acids in the presence of 	3

	tertiary amines. <i>Journal of Physical Organic Chemistry</i> , 30(12) doi:10.1002/poc.3717	
	3. Bakhtin, S., Shved, E., Bepal'ko, Y., & Stepanova, Y. (2018). Behaviour modelling of organic bases in the oxyalkylation reaction of proton-containing nucleophiles. <i>Progress in Reaction Kinetics and Mechanism</i> , 43(2), 121-135. doi:10.3184/146867818X15161889114501	
18	<p>Vasilica Popescu, Augustin Muresan, Ovidiu Constandache, Gabriela Lisa, Emil Ioan Muresan, Corneliu Munteanu, Ion Sandu, Tinctorial response of recycled PET fibers to chemical modifications during saponification and aminolysis reactions, <i>Industrial and Engineering Chemistry Research (Ind Eng Chem Res)</i>, 2014, vol. 53, nr. 43, p. 16652–16663, DOI: 10.1021/ie5028974, https://doi.org/10.1021/ie5028974, WOS:000344042700007, EID: 2-s2.0-84908592803, print ISSN: 0888-5885, e-ISSN: 15205045, IF = 2,587</p> <p><i>Citată de:</i></p> <p>1. Chen, S., Lu, W., Han, J., Zhong, H., Xu, T., Wang, G., & Chen, W. (2019). Robust three-dimensional g-C₃N₄@cellulose aerogel enhanced by cross-linked polyester fibers for simultaneous removal of hexavalent chromium and antibiotics. <i>Chemical Engineering Journal</i>, 359, 119-129. doi:10.1016/j.cej.2018.11.110</p> <p>2. Ge, C., Lü, W., Shi, J., Xu, T., Chen, S., Li, N., & Chen, W. (2018). Measurement of crystallinity and crystal orientation of polyester industrial yarns by 2-D X-ray diffraction. [应用二维X射线衍射法测定涤纶工业丝结晶和取向行为] <i>Fangzhi Xuebao/Journal of Textile Research</i>, 39(3), 19-25. doi:10.13475/j.fzxb.20170600807</p> <p>3. Mao, Y., Li, Q., & Wu, C. (2019). Surface modification of PET fiber with hybrid coating and its effect on the properties of PP composites. <i>Polymers</i>, 11(10) doi:10.3390/polym11101726</p> <p>4. Meng, L., Xu, X., Bai, B., Ma, M., Li, S., Hu, N., . . . Suo, Y. (2018). Surface carboxyl-activated polyester (PET) fibers decorated with glucose carbon microspheres and their enhanced selective adsorption for dyes. <i>Journal of Physics and Chemistry of Solids</i>, 123, 378-388. doi:10.1016/j.jpcs.2018.08.005</p> <p>5. Popescu, V., Sandu, I. C. A., Popescu, G., Lisa, G., & Popa, A. (2015). Study of the effects by tinctorial method obtained at polyethylene terephthalate functionalization with alcohols. <i>Revista De Chimie</i>, 66(10), 1607-1613.</p> <p>6. Qin, D., Lu, W., Wang, X., Li, N., Chen, X., Zhu, Z., & Chen, W. (2016). Graphitic carbon nitride from burial to re-emergence on polyethylene terephthalate nanofibers as an easily recycled photocatalyst for degrading antibiotics under solar irradiation. <i>ACS Applied Materials and Interfaces</i>, 8(39), 25962-25970. doi:10.1021/acsami.6b07680</p> <p>7. Qin, D., Lu, W., Zhu, Z., Li, N., Xu, T., Wang, G., & Chen, W. (2017). Free channel formation around graphitic carbon nitride embedded in porous polyethylene terephthalate nanofibers with excellent reusability for eliminating antibiotics under solar irradiation. <i>Industrial and Engineering Chemistry Research</i>, 56(39), 11151-11160. doi:10.1021/acs.iecr.7b02800</p>	7
19	<p>Tatiana Constandache, Angela Cerempei, Emil Ioan Muresan, Vasilica Popescu, Mioara Drobotă, Ion Sandu, Modified organic pigments used in polypropylene coloration, <i>Revista de Chimie (REV CHIM Bucharest)</i>, 2014, vol. 65, nr.8, p. 892-896, WOS:000340867000006, EID: 2-s2.0-84907302420, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/CONSTANDACHE%20T.pdf%208%2014.pdf IF = 0,81</p>	2

	<p><i>Citată de:</i></p> <p>1. Chira, N., Stan, R., Todasca, C., Maganu, M., Constantinescu, T., Garea, S., & Rosca, S. (2015). Azo dye functionalized monomer derived from linseed oil. <i>Revista De Chimie</i>, 66(7), 937-941.</p> <p>2. Manea, L. R., Sandu, I., & Curteza, A. (2015). Clothing comfort under dynamic conditions in the evaluation of some biometrics parameters: I. the evaluation of energetic consumption and functional frequency. <i>Materiale Plastice</i>, 52(3), 312-316.</p>	
20	<p>Vasilica Popescu, Ion Sandu, Emil Ioan Muresan, Bogdan Istrate, Gabriela Lisa, Effects of the pre-treatment with atmospheric - air plasma followed by conventional finishing, <i>Revista de Chimie (REV CHIM Bucharest)</i>, 2014, vol. 65, nr. 6, p. 676-683, WOS:000343965900013, print ISSN: 0034-7752, e-ISSN: 1582-9049, https://www.revistadechimie.ro/pdf/POPESCU%20V.pdf%206%2014.pdf, IF= 0,81</p> <p><i>Citată de:</i></p> <p>1. Ehrmann, A., & Blachowicz, T. (2016). Examination of textiles with mathematical and physical methods. <i>Examination of textiles with mathematical and physical methods</i> (pp. 1-177) doi:10.1007/978-3-319-47408-3</p> <p>2. Huang, L., Shen, M., Zhang, X., Jiang, L., Song, Q., & Xie, J. (2018). Effect of high-pressure microfluidization treatment on the physicochemical properties and antioxidant activities of polysaccharide from mesona chinensis benth. <i>Carbohydrate Polymers</i>, 200, 191-199. doi:10.1016/j.carbpol.2018.07.087</p> <p>3. Manea, L. R., Sandu, I., & Curteza, A. (2015). Clothing comfort under dynamic conditions in the evaluation of some biometrics parameters: I. the evaluation of energetic consumption and functional frequency. <i>Materiale Plastice</i>, 52(3), 312-316.</p> <p>4. Popescu, V., Pui, A., Sandu, I. C. A., & Popescu, G. (2016). Eco-friendly dyeings of textiles with extract from pomegranate arils with seeds spectroscopic, colorimetric and statistical assessment. <i>Revista de Chimie</i>, 67(2), 270-275.</p> <p>5. Popescu, V., Sandu, I. C. A., & Popescu, G. (2015). Analysis of the behaviour of PAN functionalized with basic compounds, during dyeing process with acid dyes. <i>Revista de Chimie</i>, 66(12), 1997-2004.</p> <p>6. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). FTIR analysis for studying the possibility of grafting onto cotton of some compounds resulted from the interaction of carbonyl compounds with monochlorotriazinyl-β-cyclodextrin. <i>Revista de Chimie</i>, 67(11), 2184-2189.</p> <p>7. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). FTIR spectroscopic, colorimetric and statistic evaluations of textile materials dyed with crude extract obtained by macerating pomegranate peels. <i>Revista de Chimie</i>, 67(10), 1994-2000.</p> <p>8. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton. <i>Revista de Chimie</i>, 67(4), 768-773.</p> <p>9. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). Study of textile materials behavior at dyeing with colored aqueous extract obtained by boiling peels, arils and seeds of punica granatum spectroscopic, colorimetric and statistic evaluations. <i>Revista de Chimie</i>, 67(12), 2454-2459.</p>	12

	<p>10. Popescu, V., Sandu, I. C. A., Popescu, G., Lisa, G., & Popa, A. (2015). Study of the effects by tinctorial method obtained at polyethylene terephthalate functionalization with alcohols. <i>Revista de Chimie</i>, 66(10), 1607-1613.</p> <p>11. Scacchetti, F. A. P., Pinto, E., & Soares, G. M. B. (2017). Functionalization and characterization of cotton with phase change materials and thyme oil encapsulated in beta-cyclodextrins. <i>Progress in Organic Coatings</i>, 107, 64-74. doi:10.1016/j.porgcoat.2017.03.015</p> <p>12. Timar, M. C., Sandu, I. C. A., Beldean, E., & Sandu, I. (2014). FTIR investigation of paraloid B72 as consolidant for old wooden artefacts: Principle and methods. <i>Materiale Plastice</i>, 51(4), 382-387.</p>	
21	<p>Vasilica Popescu, Emil Ioan Muresan, Performances of chitosan grafted onto surface of polyacrylonitrile functionalized through amination reactions, <i>Industrial and Engineering Chemistry Research (Ind Eng Chem Res)</i>, 2013, vol. 52, nr. 37, p. 13252–13263, DOI: 10.1021/ie401494a, https://doi.org/10.1021/ie401494a, WOS:000330080100003, EID: 2-s2.0-84884379081, print ISSN: 0888-5885, e-ISSN: 15205045, IF = 2,235</p> <p><i>Citată de:</i></p> <p>1. Chang, L., Duan, W., Chen, A., Li, J., Huang, S., Tang, H., . . . Zhao, L. (2020). Preparation of polyacrylonitrile-based fibres with chelated ag ions for antibacterial applications: Preparation of antibacterial fibres. <i>Royal Society Open Science</i>, 7(7) doi:10.1098/rsos.200324rsos200324</p> <p>2. Li, M., Mitra, D., Kang, E. -, Lau, T., Chiong, E., & Neoh, K. G. (2017). Thiol-ol chemistry for grafting of natural polymers to form highly stable and efficacious antibacterial coatings. <i>ACS Applied Materials and Interfaces</i>, 9(2), 1847-1857. doi:10.1021/acsami.6b10240</p> <p>3. Park, H. J., & Kim, Y. H. (2015). Modification of polyacrylonitrile films by hydroxylamine and hydrazine treatment. <i>Polymer (Korea)</i>, 39(3), 394-402. doi:10.7317/pk.2015.39.3.394</p> <p>4. Popescu, V., Astaneu, D. -, Burlica, R., Popescu, A., Munteanu, C., Ciolacu, F., . . . Cocean, A. (2019). Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics. <i>Journal of Cleaner Production</i>, 232, 451-461. doi:10.1016/j.jclepro.2019.05.281</p> <p>5. Popescu, V., Popescu, G., & Sandu, I. C. A. (2017). Highlighting a cotton grafting process using the spectral subtraction method and statistical analysis. <i>Revista De Chimie</i>, 68(8), 1884-1889. doi:10.37358/rc.17.8.5785</p> <p>6. Popescu, V., Sandu, I. C. A., & Popescu, G. (2015). Analysis of the behaviour of PAN functionalized with basic compounds, during dyeing process with acid dyes. <i>Revista De Chimie</i>, 66(12), 1997-2004.</p> <p>7. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). Colorimetric evaluation of chemical modifications generated by PAN functionalization in acid/basic medium and grafting with chitosan. <i>Revista de Chimie</i>, 67(1), 74-80.</p> <p>8. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton. <i>Revista de Chimie</i>, 67(4), 768-773.</p> <p>9. Popescu, V., Sandu, I. C. A., Popescu, G., Lisa, G., & Popa, A. (2015). Study of the effects by tinctorial method obtained at polyethylene terephthalate</p>	17

	<p>functionalization with alcohols. <i>Revista de Chimie</i>, 66(10), 1607-1613.</p> <p>10. Popescu, V., Sandu, I. C. A., Popescu, G., Popa, A., & Radu, C. -. (2015). Colorimetric answer of monochlorotriazinyl-β-cyclodextrin grafted onto PAN support chemical modified with NaOH and amines. <i>Revista de Chimie</i>, 66(11), 1765-1771.</p> <p>11. Popescu, V., Vasluianu, E., & Popescu, G. (2014). Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents. <i>Carbohydrate Polymers</i>, 111, 870-882. doi:10.1016/j.carbpol.2014.05.052</p> <p>12. Radu, CD, Bercu, E., Sandu, I., & Foia, L. -. (2014). Influence of maleic polyelectrolytes on the methylene blue at dyeing of polyacrylonitrile fibres. <i>Materiale Plastice</i>, 51(1), 104-109.</p> <p>13. Radu, C. D, Parteni, O., Sandu, I. G., Borhan, O., Vasluianu, E., & Sandu, I. (2014). Effects of cellulose functionalization with ethylenediamide tetrakis(ethoxylate-block-propoxylate)tetrol. <i>Revista de Chimie</i>, 65(5), 534-541.</p> <p>14. Xu, N., Guo, D., & Xiao, C. (2019). Fe/Mn oxide decorated polyacrylonitrile hollow fiber membrane as heterogeneous fenton reactor for methylene blue decolorization. <i>Journal of Applied Polymer Science</i>, 136(46) doi:10.1002/app.48217</p> <p>15. Xu, N., Hao, Z., Xiao, C., Zhang, X., Feng, Y., Dirican, M., & Yan, C. (2020). Iron/manganese oxide-decorated GO-regulated highly porous polyacrylonitrile hollow fiber membrane and its excellent methylene blue-removing performance. <i>Journal of Membrane Science</i>, 607 doi:10.1016/j.memsci.2020.118180</p> <p>16. Yang, C., Wang, B., Zhang, Y., & Wang, H. (2015). Preparation and properties of polyacrylonitrile fibers with guanidine groups. <i>Fibers and Polymers</i>, 16(8), 1611-1617. doi:10.1007/s12221-015-4480-1</p> <p>17. Zheng, L., Li, P., Tao, M., & Zhang, W. (2019). Regulation of polar microenvironment on the surface of tertiary amines functionalized polyacrylonitrile fiber and its effect on catalytic activity in knoevenagel condensation. <i>Catalysis Communications</i>, 118, 19-24. doi:10.1016/j.catcom.2018.09.009</p>	
22	<p>Emil Ioan Muresan, Gina Balan, Vasilica Popescu, Durable hydrophobic treatment of cotton fabrics with glycidyl stearate, <i>Industrial and Engineering Chemistry Research (Ind Eng Chem Res)</i>, 2013, vol. 52, nr. 18, p. 6270–6276, DOI: 10.1021/ie400235u, https://doi.org/10.1021/ie400235u, WOS:000318838900023, EID: 2-s2.0-84877277723, print ISSN: 0888-5885, e-ISSN: 15205045, IF = 2,235</p> <p><i>Citată de:</i></p> <p>1. Chen, D., Chen, F., Zhang, H., Yin, X., & Zhou, Y. (2016). Preparation and characterization of novel hydrophobic cellulose fabrics with polyvinylsilsesquioxane functional coatings. <i>Cellulose</i>, 23(1), 941-953. doi:10.1007/s10570-015-0820-y</p> <p>2. De Vries, T. S., Davies, D. R., Miller, M. C., & Cynecki, W. A. (2014). Kinetics of the cationization of cotton. <i>Industrial and Engineering Chemistry Research</i>, 53(23), 9686-9694. doi:10.1021/ie500836n</p> <p>3. Lin, H., Hu, Q., Liao, T., Zhang, X., Yang, W., & Cai, S. (2020). Highly hydrophobic cotton fabrics modified by poly(methylhydrogen)siloxane and fluorinated olefin: Characterization and applications. <i>Polymers</i>, 12(4) doi:10.3390/polym12040833</p>	14

	<p>4. Liu, X., Yang, G., & Lipik, V. (2019). Permanent water repellent chemical modification of cotton fabric with reagents containing aromatic rings. <i>Fibers and Polymers</i>, 20(1), 51-56. doi:10.1007/s12221-019-8743-0</p> <p>5. Ma, W., Du, S., Yan, S., Yu, X., Zhang, Z., & Zhang, S. (2020). Salt-free dyeing of modified cotton through graft polymerization with highly enhanced dye fixation and good strength properties. <i>Polymers</i>, 12(2) doi:10.3390/polym12020462</p> <p>6. Ma, Y., Zhu, D., Si, Y., & Sun, G. (2018). Fabricating durable, fluoride-free, water repellency cotton fabrics with CPDMS. <i>Journal of Applied Polymer Science</i>, 135(25) doi:10.1002/app.46396</p> <p>7. Mai, Z., Shu, X., Li, G., Chen, D., Liu, M., Xu, W., & Zhang, H. (2019). One-step fabrication of flexible, durable and fluorine-free superhydrophobic cotton fabrics for efficient oil/water separation. <i>Cellulose</i>, 26(10), 6349-6363. doi:10.1007/s10570-019-02515-9</p> <p>8. Mai, Z., Xiong, Z., Shu, X., Liu, X., Zhang, H., Yin, X., Chen, D. (2018). Multifunctionalization of cotton fabrics with polyvinylsilsesquioxane/ZnO composite coatings. <i>Carbohydrate Polymers</i>, 199, 516-525. doi:10.1016/j.carbpol.2018.07.052</p> <p>9. Orlandin, A., Dolcet, P., Biondi, B., Hilma, G., Coman, D., Oancea, S., . . . Peggion, C. (2019). Covalent graft of lipopeptides and peptide dendrimers to cellulose fibers. <i>Coatings</i>, 9(10) doi:10.3390/coatings9100606</p> <p>10. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton. <i>Revista de Chimie</i>, 67(4), 768-773.</p> <p>11. Radu, C. D., Partem, O., Sandu, I. G., Borhan, O., Vasluianu, E., & Sandu, I. (2014). Effects of cellulose functionalization with ethylenediamide tetrakis(ethoxylate-block-propoxylate)tetrol. <i>Revista de Chimie</i>, 65(5), 534-541.</p> <p>12. Schramm, C., & Amann, A. (2019). Formaldehyde-free, crease-resistant functionalization of cellulosic material modified by a hydrolyzed dicarboxylic acid based alkoxysilane/melamine finishing system. <i>Cellulose</i>, doi:10.1007/s10570-019-02391-3</p> <p>13. Wright, T., Mahmud-Ali, A., & Bechtold, T. (2020). Surface coated cellulose fibres as a biobased alternative to functional synthetic fibres. <i>Journal of Cleaner Production</i>, 275 doi:10.1016/j.jclepro.2020.123857</p> <p>14. Wu, H., Noro, J., Wang, Q., Fan, X., Silva, C., & Cavaco-Paulo, A. (2016). Jute hydrophobization via laccase-catalyzed grafting of fluorophenol and fluoroamine. <i>RSC Advances</i>, 6(93), 90427-90434. doi:10.1039/c6ra17687a</p>	
23	<p>Vasilica Popescu, Emil Ioan Muresan, Ana Maria Grigoriu, Monochlorotriazinyl-β-cyclodextrin grafting onto polyester fabrics and films, <i>Carbohydrate Polymers (Carbohyd Polym)</i>, 2011, vol. 86, nr. 2, p. 600-611, DOI: 10.1016/j.carbpol.2011.04.080, https://doi.org/10.1016/j.carbpol.2011.04.080, WOS:000294187400027, EID: 2-s2.0-79960558802, print ISSN: 0144-8617, eISSN: 1879-1344, IF = 3,628</p> <p><i>Citată de:</i></p> <p>1. Chatha, S. A. S., Asgher, M., Asgher, R., Hussain, A. I., Iqbal, Y., Hussain, S. M., A.I., Y., Hussain S.M., Bilal, M., Saleem, F., Iqbal, H. M. N. (2019). Environmentally responsive and anti-bugs textile finishes – recent trends, challenges, and future perspectives. <i>Science of the Total</i></p>	24

Environment, 690, 667-682. [doi:10.1016/j.scitotenv.2019.06.520](https://doi.org/10.1016/j.scitotenv.2019.06.520)

2. Chen, L., Zhang, G. -, Wang, C. -, Tian, A. -, & Wang, C. -. (2012). Surface modification of PET with MCT- β -CD and investigation on digital heat transfer printing. *Gongneng Cailiao/Journal of Functional Materials*, 43(12), 1610-1612+1617

3. Grigoriu, A.M, Luca, C., Horoba, E., & Dunca, S. (2013). Antimicrobial polymer films functionalized with cyclodextrins. *Revista de Chimie*, 64(6), 606-611

4. Ibrahim, N. A., Abdalla, W. A., El-Zairy, E. M. R., & Khalil, H. M. (2013). Utilization of monochloro-triazine β -cyclodextrin for enhancing printability and functionality of wool. *Carbohydrate Polymers*, 92(2), 1520-1529. [doi:10.1016/j.carbpol.2012.11.020](https://doi.org/10.1016/j.carbpol.2012.11.020)

5. Ibrahim, N. A., Eid, B. M., Youssef, M. A., Ibrahim, H. M., Ameen, H. A., & Salah, A. M. (2013). Multifunctional finishing of cellulosic/polyester blended fabrics. *Carbohydrate Polymers*, 97(2), 783-793. [doi:10.1016/j.carbpol.2013.05.063](https://doi.org/10.1016/j.carbpol.2013.05.063)

6. Khanna, S., & Chakraborty, J. N. (2017). Optimization of monochlorotriazine β -cyclodextrin grafting on cotton and assessment of release behavior of essential oils from functionalized fabric. *Fashion and Textiles*, 4(1) [doi:10.1186/s40691-017-0089-x](https://doi.org/10.1186/s40691-017-0089-x)

7. Lis, M. J., Carmona, Ó. G., Carmona, C. G., & Bezerra, F. M. (2018). Inclusion complexes of citronella oil with β -cyclodextrin for controlled release in biofunctional textiles. *Polymers*, 10(12) [doi:10.3390/polym10121324](https://doi.org/10.3390/polym10121324)

8. Lv, J., Zhou, Q., Liu, G., Gao, D., & Wang, C. (2014). Preparation and properties of polyester fabrics grafted with O-carboxymethyl chitosan. *Carbohydrate Polymers*, 113, 344-352. [doi:10.1016/j.carbpol.2014.06.088](https://doi.org/10.1016/j.carbpol.2014.06.088)

9. Mehraz, L., & Nouri, M. (2020). Preparation and characterization of β -cyclodextrin grafted silk fabric. *Journal of Natural Fibers*, 17(3), 371-381. [doi:10.1080/15440478.2018.1492492](https://doi.org/10.1080/15440478.2018.1492492)

10. Meng, L., Xu, X., Bai, B., Ma, M., Li, S., Hu, N., . . . Suo, Y. (2018). Surface carboxyl-activated polyester (PET) fibers decorated with glucose carbon microspheres and their enhanced selective adsorption for dyes. *Journal of Physics and Chemistry of Solids*, 123, 378-388. [doi:10.1016/j.jpcs.2018.08.005](https://doi.org/10.1016/j.jpcs.2018.08.005)

11. Niu, Y., Ying, D., Li, K., Wang, Y., & Jia, J. (2017). Adsorption of heavy-metal ions from aqueous solution onto chitosan-modified polyethylene terephthalate (PET). *Research on Chemical Intermediates*, 43(7), 4213-4225. [doi:10.1007/s11164-017-2866-y](https://doi.org/10.1007/s11164-017-2866-y)

12. Pajda, M., Mazela, W., Lukasiewicz, M., & Krakow, S. B. (2012). Physical modification of cotton surface by β -cyclodextrin and its derivative. *E-Journal of Surface Science and Nanotechnology*, 10, 180-185. [doi:10.1380/ejssnt.2012.180](https://doi.org/10.1380/ejssnt.2012.180)

13. Peila, R., Migliavacca, G., Aimone, F., Ferri, A., & Sicardi, S. (2012). A comparison of analytical methods for the quantification of a reactive β -cyclodextrin fixed onto cotton yarns. *Cellulose*, 19(4), 1097-1105. [doi:10.1007/s10570-012-9710-8](https://doi.org/10.1007/s10570-012-9710-8)

14. Pionteck, J., & Wypych, G. (2016). Handbook of antistatics. *Handbook of antistatics* (pp. 1-483)

15. Popescu, O., Dunca, S., & Grigoriu, A. (2013). Antibacterial action of silver applied on cellulose fibers grafted with monochlorotriazinyl- β -cyclodextrin. *Cellulose Chemistry and Technology*, 47(3-4), 247-255

16. Popescu, V., Muresan, A., Constandache, O., Lisa, G., Muresan, E. I., Munteanu, C., & Sandu, I. (2014). Tinctorial response of recycled pet fibers to

	<p>chemical modifications during saponification and aminolysis reactions. <i>Industrial and Engineering Chemistry Research</i>, 53(43), 16652-16663. doi:10.1021/ie5028974</p> <p>17. Popescu, V., Sandu, I. C. A., & Popescu, G. (2016). FTIR analysis for studying the possibility of grafting onto cotton of some compounds resulted from the interaction of carbonyl compounds with monochlorotriazinyl-β-cyclodextrin. <i>Revista De Chimie</i>, 67(11), 2184-2189.</p> <p>18. Popescu, V., Sandu, I. C. A., & Popescu, G. (2017). Study of cotton grafting with hemiacetal-MCT-β-CD derivative using fourier transform infrared spectroscopy and statistical analysis. <i>Revista De Chimie</i>, 68(9), 2055-2059. doi:10.37358/rc.17.9.5821</p> <p>19. Popescu, V., Sandu, I. C. A., Popescu, G., Lisa, G., & Popa, A. (2015). Study of the effects by tinctorial method obtained at polyethylene terephthalate functionalization with alcohols. <i>Revista de Chimie</i>, 66(10), 1607-1613</p> <p>20. Popescu, V., Sandu, I. G., Vasluianu, E., Sandu, I., Manea, U. R., & Campagne, C. (2014). Effects of chitosan grafting onto cotton fabric pretreated with a tetrol. <i>Revista de Chimie</i>, 65(12), 1439-1447</p> <p>21. Popescu, V., Vasluianu, E., & Popescu, G. (2014). Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents. <i>Carbohydrate Polymers</i>, 111, 870-882. doi:10.1016/j.carbpol.2014.05.052</p> <p>22. Radu, C. D., Parteni, O., Sandu, I. G., Borhan, O., Vasluianu, E., & Sandu, I. (2014). Effects of cellulose functionalization with ethylenediamide tetrakis(ethoxylate-block-propoxylate)tetrol. <i>Revista de Chimie</i>, 65(5), 534-541.</p> <p>23. Wang, C., Lv, J., Ren, Y., Zhou, Q., Chen, J., Zhi, T., . . . Jin, L. (2016). Cotton fabric with plasma pretreatment and ZnO/Carboxymethyl chitosan composite finishing for durable UV resistance and antibacterial property. <i>Carbohydrate Polymers</i>, 138, 106-113. doi:10.1016/j.carbpol.2015.11.046</p> <p>24. Yuan, K., Hu, Z., Duan, G., Yu, J., Wang, Y., & Zhu, J. (2018). Preparation and properties of poly(ethylene terephthalate)(PET) coated by chitosan (CS) based on sol-gel method. <i>Journal of Donghua University (English Edition)</i>, 35(6), 458-463</p>	
24	<p>Angela Cerempei, Luminița Ciobanu, Emil Muresan, Corina Măluțan, Romen Butnaru, Textile Materials Functionalised with Natural Biologically Active Compounds, Romanian Biotechnological Letters (Rom Biotech Lett), 2010, vol. 15, nr.5, p. 5537-5544, WOS:000283884600003, EID: 2-s2.0-78649725833, ISSN: 1224-5984, https://www.rombio.eu/rbl5vol15/3%20Ciobanu%20Luminita.pdf, IF = 0,219</p> <p><i>Citată de:</i></p> <p>1. Ganesan, P. (2017). Natural and bio polymer curative films for wound dressing medical applications. <i>Wound Medicine</i>, 18, 33-40. doi:10.1016/j.wndm.2017.07.002</p> <p>2. Ganesan, P., & Kanmani, P. (2018). Development and characterisation of biodegradable film from natural polymers. <i>Indian Journal of Fibre and Textile Research</i>, 43(3), 308-312.</p> <p>3. Gutarowska, B., Pietrzak, K., Machnowski, W., & Milczarek, J. M. (2017). Historical textiles – a review of microbial deterioration analysis and disinfection methods. <i>Textile Research Journal</i>, 87(19), 2388-2406. doi:10.1177/0040517516669076</p>	6

	<p>4. Khajavi, R., Ahrari, M., Toliyat, T., & Bahadori, L. (2013). Molecular encapsulation of lavender essential oil by β-cyclodextrin and dimethyl dihydroxy ethylene urea for fragrance finishing of cotton fabrics. <i>Asian Journal of Chemistry</i>, 25(1), 459-465. doi:10.14233/ajchem.2013.13173</p> <p>5. Milovanovic, S., Radetic, M., Misic, D., Asanin, J., Leontijevic, V., Ivanovic, J., & Zizovic, I. (2017). High pressure modified cotton in wound dressing applications. <i>Cotton fibres: Characteristics, uses and performance</i> (pp. 177-205)</p> <p>6. Rîmbu, C., Cerempei, A., Muresan, R., Guguianu, E., Ursache, M., Borhan, O., & Muresan, A. (2015). Eco-friendly antibacterial finish for natural knitted fabrics. <i>Tekstil Ve Konfeksiyon</i>, 25(4), 359-364.</p>	
25	<p>Emil Ioan Muresan, Spiridon Oprea, Vasile Hulea, Teodor Malutan, Mihai Vata, Kinetic studies for the esterification of acetic acid with epichlorohydrin over an anion exchange resin catalyst, Central European Journal of Chemistry (Cent Eur J Chem), 2008, vol. 6, nr. 3, p.419 - 428, DOI: 10.2478/s11532-008-0046-z, WOS:000258452100013, EID: 2-s2.0-50149107960, https://doi.org/10.2478/s11532-008-0046-z, Print ISSN 1895-1066, Online ISSN 1644-3624, IF = 0,741</p> <p><i>Citată de:</i></p> <p>1. Babae, S., Zolfigol, M. A., Zarei, M., Abbasi, M., & Najafi, Z. (2019). Synthesis of pyridinium-based salts: Catalytic application at the synthesis of six membered O-heterocycles. <i>Molecular Catalysis</i>, 475, 110403, 1-14, https://doi.org/10.1016/j.mcat.2019.110403</p> <p>2. He, B., Shao, Y., Liang, M., Li, J., & Cheng, Y. (2015). Biodiesel production from soybean oil by guanidinylated chitosan. <i>Fuel</i>, 159, 33-39. doi:10.1016/j.fuel.2015.06.038</p> <p>3. Sepehrmansourie, H., Zarei, M., Taghavi, R., & Zolfigol, M. A. (2019). Mesoporous ionically tagged cross-linked poly(vinyl imidazole)s as novel and reusable catalysts for the preparation of N-heterocycle spiropyranes. <i>ACS Omega</i>, 4(17), 17379-17392. doi:10.1021/acsomega.9b02135</p>	3
26	<p>Emil Ioan Muresan, Spiridon Oprea, Teodor Malutan, Mihai Vata, Esterification of palmitic acid with epichlorohydrin on anion exchange resin catalyst, Central European Journal of Chemistry (Cent Eur J Chem), 2007, vol. 5, nr. 3, pp. 715–726, DOI: 10.2478/s11532-007-0033-9, https://doi.org/10.2478/s11532-007-0033-9, WOS:000247969400005, EID: 2-s2.0-3454711761, Print ISSN: 1895-1066; eISSN: 1644-3624, IF = 0,82</p> <p><i>Citată de:</i></p> <p>1. Budhijanto, B., & Subagyo, A. F. P. H. (2017). Esterification of palm fatty acid distillate with epichlorohydrin using cation exchange resin catalyst. Paper presented at the <i>AIP Conference Proceedings</i>, , 1840 doi:10.1063/1.4982269</p> <p>2. Chowdhury, A., Mitra, D., & Biswas, D. (2013). Biolubricant synthesis from waste cooking oil via enzymatic hydrolysis followed by chemical esterification. <i>Journal of Chemical Technology and Biotechnology</i>, 88(1), 139-144. doi:10.1002/jctb.3874</p> <p>3. Chowdhury, A., Sarkar, D., & Mitra, D. (2016). Esterification of free fatty acids derived from waste cooking oil with octanol: Process optimization and</p>	3

	kinetic modeling. <i>Chemical Engineering and Technology</i> , 39(4), 730-740. doi:10.1002/ceat.201400745	
27	<p>Marcel Popa, Ana Irina Ecsner, Rodica Muresan, Emil Ioan Muresan, Ghiocel Ioanid, Aurelia Ioanid, Studies concerning the rising of hydrophilicity of some textile fabrics through treatment in cold plasma and grafting with vinylic monomers, <i>Eurasian Chemico-Technological Journal (Eurasian Chem Tech J)</i>, Apr 2005, vol. 7, nr. 2, p.123 -131, DOI: https://doi.org/10.18321/ectj623, WOS:000420226200006, ISSN 1562-3920, IF = 0</p> <p><i>Citată de:</i></p> <p>1. Yutilova, K., Bepal'ko, Y., & Shved, E. (2019). A computational study of 2-(chloromethyl)oxirane ring opening by bromide and acetate anions considering electrophilic activation with cations of alkali metals. <i>Croatica Chemica Acta</i>, 92(3) doi:10.5562/cca3505</p> <p>2. Bismarck, A, Brostow, W, Chiu, R, Lobland, HEH, Kingsley K. C, Effects of surface plasma treatment on tribology of thermoplastic polymers, <i>POLYMER ENGINEERING AND SCIENCE</i>,2008, Volume: 48, Issue: 10, Pages: 1971-1976, DOI: 10.1002/pen.21103, Published: OCT 2008</p>	2
	NUMĂR TOTAL DE CITARI	145

NUMĂR CONTRACTE DE CERCETARE-DEZVOLTARE-INOVARE OBȚINUTE PRIN COMPETIȚIE LA NIVEL NATIONAL

Indicatori de performanță	Număr impus de realizări	Număr de realizări ale candidatului
<p style="text-align: center;">NCO</p> <p>Număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel national</p>	1	2

Granturi obținute prin competiție la nivel national în calitate de director

Nr.	Titlul proiectului - Director contract
1	CNCSIS – TD-122/2007 „Cercetări în domeniul esterificării prin procese catalitice omogene și eterogene”, Contract de finanțare nr. 337/01.10.2007 – UEFISCSU, perioada de implementare a contractului: 2007 – 2008
2	Grant intern TUIASI, număr contract de grant: GI 0199/2018, perioada de implementare a contractului: 2018 – 2019; Denumirea proiectului: „Metalosilicați ierarhici poroși sub formă de macrosfere obținuți prin tehnica mono sau multi-templetării: sinteză, caracterizare și aplicare (MATSIPOR)”

Data

18.12.2020

Candidat

Ș.l. dr. ing. Mureșan Emil Ioan