

UNIVERSITATEA TEHNICĂ GHEORGHE ASACHI DIN IAȘI  
FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI CRISTOFOR SIMIONESCU  
DEPARTAMENTUL DE INGINERIE CHIMICĂ

Concurs pentru ocuparea postului de **Cercetător Științific gradul II**, poz. **1** din statul de funcții

Disciplinele postului:

1. Fenomene de transfer. Transfer de masă
2. Modelarea, simularea și optimizarea proceselor specifice ingineriei chimice
3. Metode avansate de epurare a apelor uzate

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

publicat în Monitorul Oficial al României, Partea a III-a, nr. 1242 din data de 03.12.2021

Candidat: Secula, Marius Sebastian / Data nașterii: 31.12.1976. Funcția actuală: Cercetător Științific gradul II, Data numirii în funcția actuală: 01.11.2020 Instituția:  
Universitatea Tehnică „Gheorghe Asachi din Iași

**COMISIA DE INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE**

**Modul de îndeplinire a standardelor minime naționale de prezentare la concurs pentru postul de cercetător științific II, conform Ordinului 6129/20.12.2016 privind aprobarea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare**

Standarde minime	Modul de îndeplinire a standardelor minime naționale
<b><math>NTOP \geq 2</math></b>	<b><math>NTOP = 4</math></b>
<b><math>NP \geq 10</math></b>	<b><math>NP = 19</math></b>
<b><math>FIC \geq 15</math></b>	<b><math>FIC = 59,939</math></b>
<b><math>NC \geq 50</math></b>	<b><math>NC = 484</math></b>
<b><math>NCO \geq 1</math></b>	<b><math>NCO = 2</math></b>

**a) Numărul total de articole publicate în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal**

1. **M.S. Secula**, I. Cretescu, B. Cagnon, L.R. Manea, C.S. Stan, I.G. Breaban, *Fractional Factorial Design Study on the Performance of GAC-Enhanced Electrocoagulation Process involved in Color Removal from Synthetic Dye Solutions*, **Materials** (17<sup>th</sup> METALLURGY & METALLURGICAL ENGINEERING - SCIE, 2021), 6(7) 2013 2723-2746, DOI: 10.3390/ma6072723, WOS:000322168300009, IF - 3,623;
2. **M.S. Secula**, B. Cagnon, T.F. de Oliveira, O. Chedeville, H. Fauduet, *Removal of acid dye from aqueous solutions by electrocoagulation/GAC adsorption coupling: Kinetics and electrical operating costs*, **Journal of the Taiwan Institute of Chemical Engineers** (25<sup>th</sup> ENGINEERING, CHEMICAL - SCIE, 2021), 43 (5), 2012, 767-775, DOI: 10.1016/j.jtice.2012.03.003, WOS:000309895000016, IF - 4,876;
3. **M.S. Secula\***, I. Cretescu, S. Petrescu, *An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation*, **Desalination** (9<sup>th</sup> Chemical Engineering, 2021; 3<sup>rd</sup> Water Resource, 2021), 277 (1-3), 2011, 227-235, DOI: 10.1016/J.DESAL.2011.04.031, WOS:000293720600031, IF - 9,501;
4. **M.S. Secula**, G.D. Suditu, I. Poullos, C. Cojocaru, I. Cretescu, *Response surface optimization of the heterogeneous photocatalytic decolorization of a simulated dyestuff effluent*, **Chemical Engineering Journal** (4<sup>th</sup> Chemical Engineering, 2021; 2<sup>nd</sup> Environmental Engineering, 2021), 141 (1-3), 2008, 18-26, DOI: 10.1016/j.cej.2007.10.003, WOS:000257572900003, IF 2020: 13,273.

**NTOP realizat = 4 (conform standarde minime  $NTOP \geq 2$ )**

**b) NP – numărul de articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)**

<b>NP</b>	<b>Lucrări științifice (autori, titlul lucrării, titlul jurnalului, volum (numar) pagini, anul publicării, DOI, WOS)</b>
1.	<b>M.S. Secula</b> , 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
2	<b>M.S. Secula*</b> , 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
3	<b>M.S. Secula*</b> , 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
4	<b>M.S. Secula</b> , 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
5	<b>M.S. Secula</b> , 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
6	<b>M.S. Secula</b> , 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
7	<b>M.S. Secula</b> , 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
8	<b>M.S. Secula</b> , 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
9	<b>M.S. Secula*</b> , 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
10	<b>M.S. Secula*</b> , 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
11	C.S. Stan, <b>M.S. Secula*</b> , 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
12	C.S. Stan, I. Rosca, D. Sutiman, <b>M.S. Secula*</b> , <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
13	<b>M.S. Secula*</b> , 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
14	<b>M.S. Secula*</b> , 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
15	<b>M.S. Secula*</b> , 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
16	<b>M.S. Secula</b> , 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
17	<b>M.S. Secula</b> , G.D. Suditu, I. Poulis, 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
18	Gh. Nemtoi, <b>M.S. Secula*</b> , 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
19	Gh. Nemtoi, <b>M.S. Secula*</b> , 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

**NP realizat = 19 (conform standarde minimale NP ≥ 10)**

**c) FIC - Factorul de impact cumulat – suma factorilor revistelor la data înscrierii la concurs (factorul întreg pentru autor principal sau divizat la nr. de autori pentru celelalte articole)**

<b>Lucrări științifice (autori, titlul lucrării, titlul jurnalului, volum (numar) pagini, anul publicării, DOI, WOS)</b>	<b>Nr. autori</b>	<b>IF 2020</b>	<b>FIC</b>
F.C. Çavuşoğlu, Ş. S. Bayazit, <b>M.S. Secula</b> , 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	4	3,739	0,935
<b>M.S. Secula</b> , 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	5	2,007	2,007
C.S. Stan, A. Coroabă, L. Ursu, <b>M.S. Secula</b> , 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	5	4,379	0,876
<b>M.S. Secula*</b> , 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	6	0,916	0,916
E. Dávid, <b>M.S. Secula</b> , 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	4	1,254	0,314
M. Pirsaeheb, H. Hossini, <b>M.S. Secula</b> , M. Parvaneh, G.Md. Ashraf, <i>Application of high rate integrated anaerobic-aerobic/biogranel activated carbon sequencing batch reactor (IAAnA-BioGAC-SBR) for treating strong municipal landfill leachate</i> , Scientific Reports, 7, 2017, art 3109, DOI:10.1038/s41598-017-02936-1, WOS:000402865200021	4	4,379	1,095
E.T. Iacob-Tudose, E. David, <b>M.S. Secula</b> , 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	4	0,916	0,229
I. Solomon, O.R. Hauta, <b>M.S. Secula</b> , 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	4	0,916	0,229
C.S. Stan, M. Popa, M. Olariu, <b>M.S. Secula</b> , <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	4	1,554	0,389
<b>M.S. Secula</b> , 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	5	2,475	2,475
<b>M.S. Secula</b> , 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	3	0,577	0,577
<b>M.S. Secula*</b> , 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	4	1,254	1,254
L. Zaleschi., <b>M.S. Secula</b> , 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 (31st Water Resources, 2014; 106th Environmental Sciences), 225(9), 827-835, DOI: 10.1007/s11270-014-2101-z, 2014 WOS_000341836700021	5	2,52	0,63
C.S. Stan, N. Marcotte, <b>M.S. Secula</b> , 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	4	2,326	0,582
<b>M.S. Secula</b> , 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:	6	3,623	3,623

10.3390/ma6072723, WOS:000322168300009			
<b>M.S. Secula</b> , 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	5	2,52	2,52
C. S. Stan, N. Marcotte, <b>M.S. Secula</b> , 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	4	3,08	0,77
<b>M.S. Secula</b> , B. Cagnon, T.F. de Oliveira, O. Chedeville, H. Fauduet, Removal of acid dye from aqueous solutions by electrocoagulation/GAC adsorption coupling: Kinetics and electrical operating costs, Journal of the Taiwan Institute of Chemical Engineers, 43 (5), 2012, 767-775, DOI: 10.1016/j.jtice.2012.03.003, WOS:000309895000016	5	4,876	4,876
<b>M.S. Secula</b> *, 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	3	0,916	0,916
<b>M.S. Secula</b> *, Gh. Nemtoi, I. Cretescu, <i>Anodic dissolution of some electrode materials involved in electrochemically assisted coagulation</i> , Studia Universitatis Babes-Bolyai Chimia, 57(3), 2012, 223-236 WOS:000318592900026	3	0,447	0,447
C.S. Stan, <b>M.S. Secula</b> *, 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	3	3,017	3,017
C.S. Stan, I. Rosca, D. Sutiman, <b>M.S. Secula</b> *, <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	4	3,712	3,712
<b>M.S. Secula</b> *, I. Cretescu, S. Petrescu, An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation, Desalination, 277 (1-3), 2011, 227-235, DOI: 10.1016/J.DESAL.2011.04.031, WOS:000293720600031	3	9,501	9,501
C. Pohontu, I. Cretescu, <b>M.S. Secula</b> , 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	4	0,916	0,229
C.S. Stan, D. Sibiescu, <b>M.S. Secula</b> , I. Rosca, I. Cretescu, <i>Phosphorescent Composites Based on Polyethyleneterephthalate</i> , Materiale Plastice, 47(3), 2010, 324-327 WOS:000283484600012	5	0,593	0,119
M. Spiridon, <b>M.S. Secula</b> , 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	3	0,278	0,092
C. Pohontu, I. Cretescu, <b>M.S. Secula</b> , 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	6	0,916	0,153
<b>M.S. Secula</b> *, 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 Chimia, 2009, 133-144 WOS:000302016000094	3	0,447	0,447
<b>M.S. Secula</b> , G.D. Suditu, I. Poullos, C. Cojocaru, I. Cretescu, Response surface optimization of the heterogeneous photocatalytic decolorization of a simulated dyestuff effluent, Chemical Engineering Journal, 141 (1-3), 2008, 18-26, DOI: 10.1016/j.cej.2007.10.003, WOS:000257572900003	5	13,273	13,273
S. Petrescu, <b>M.S. Secula</b> , Mathematical modeling of gas drying by adsorption, Environmental Engineering and Management Journal, 7 (3), 2008, 179-191 WOS:000257826200003	2	0,916	0,458
Gh. Nemtoi, <b>M.S. Secula</b> *, 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	4	0,278	0,278

<b>Brevete naționale (Inventatori, titlu, număr brevet, anul acordării)</b>	<b>FIC</b>
S. Petrescu, M. Spiridon, I. Solomon, <b>M.S. Secula</b> , Utilaj pentru uscarea gazelor, Nr. 00127381, 2012	1
C. S. Stan, I. Cretescu, D. Sibiescu, <b>M.S. Secula</b> , Procedeu de obtinere a unui compozit fluorescent pe baza de polietilentereftalat si nanocristale de seleniura de cadmiu, Nr. 00128622, 2013	1
C. S. Stan, <b>M.S. Secula</b> , Criogel polimeric pe bază de 2-hidroxietil metacrilat și oxid de grafen și procedeu de obținere a acestuia, Nr. 00132703, 2021	1

**FIC realizat = 59,939 (conform standarde minimale FIC ≥ 15)**

**d) Numărul total de citări (NC) în baza Scopus (fără autocitările candidatului)**

**Lucrări citate, indexate Scopus**

<b>NCi Citări (autori, titlul jurnalului, volum (numar) pagini, anul publicării)</b>	
	F.C. Çavușoğlu, Ş. S. Bayazit, <b>M.S. Secula</b> , 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
1	Mudhoo, A., Sillanpää, M., <i>Magnetic nanoadsorbents for micropollutant removal in real water treatment: a review</i> , Environmental Chemistry Letters 19(6), 4393-4413, 2021
	<b>M.S. Secula</b> , 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
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**NC realizat = 484 (conform standarde minimale NC ≥ 50)**

**e) Numărul de contracte obținute prin competiție la nivel național sau internațional ori contracte cercetare-dezvoltare-inovare cu terți în valoare minimă echivalentă cu 10.000 E – în calitate de director/Responsabil proiect**

1. PNII-RU-TE-2014-4-0405 Grant, Dezvoltarea și optimizarea unui sistem inovativ foto-Fenton-peroxon pentru degradarea micropoluantilor organici din apă, 2015-2017 Buget 550,000 lei (~125,000 EUR).
2. PNII-RU-PD Grant, 52/2010, 44, Optimizarea unui sistem hibrid electrocoagulare-sorbție-electrooxidare pentru epurarea apelor uzate, 2010-2012, Buget: 319,909 lei (~75,000 EUR).

**NCO realizat = 2 (conform standarde minimale NCO ≥ 1)**

**Data: 10 Ianuarie 2021**  
**Candidat Secula, Marius Sebastian**  
**(Nume prenume și semnătura)**