

Curriculum vitae Europass

Personal information

Name **SECULA, MARIUS SEBASTIAN**

E-mail mariussecula@ch.tuiasi.ro
mariussecula@yahoo.com

Web-pages https://www.researchgate.net/profile/Marius_Secula/
<http://tuiasi.academia.edu/MariusSecula>
<http://orcid.org/0000-0002-4148-0106>
http://www.ad-astra.ro/whoswho/view_profile.php?user_id=1860&lang=ro

ResearcherID **[G-2585-2011](#)**

Nationality Romanian

Birth date 31.12.1976

Professional experience

Period From August 2010 to July 2012

Function Project Manager, Postdoc Researcher

Research project *Optimization of a hybrid electrocoagulation-sorption-electrooxidation system for wastewater treatment*
PNII-RU Grant, No 52/2010, COD 44

Activities and responsibilities Laboratory research activity; experimental planning and acquisition of necessary laboratory equipment and analytical reagents; experimental data processing and interpretation, mathematical modeling, simulation and optimization of investigated processes, publication and communication of achieved data; updating of project web-page.

Name of the employer *Faculty of Chemical Engineering and Environmental Protection, Gheorghe Asachi Technical University of Iasi, Romania*

Sector of the activity Research

Period From August 2012 onwards

Research project *Innovative electroluminescent nanocomposites for a new approach in polymer based light emitting devices*
PN-II-ID-PCE-2011-3-0708

Period From May 2009 to December 2011

Research project *Complex combinations and nanostructured compounds destined for obtaining some new types of nanocomposite materials with applications in electronic and instrumental chemical analysis*
PNII-IDEI Grant, No. 357/2008, COD 721

Period From November 2007 to July 2010

Research project *Researches concerning gas drying by adsorption on composite materials with porous matrix*
PNII-IDEI Grant, No. 63/2007, COD 608

Activities and responsibilities Laboratory research activity; maintaining laboratory equipment; experimental planning and data interpretation; communicating technical results; updating of project web-page.

Function Postdoc Researcher

Name of the employer *Faculty of Chemical Engineering and Environmental Protection, Gheorghe Asachi Technical University, Iasi, Romania*

Sector of the activity Research

Period From July 2002 to October 2003

Function Environmental Engineer

Activities and responsibilities Knowledge of Romanian environmental legislation; preparation of documents required by the local Environmental Protection Agency; responsibilities on environmental issues.

Name of the employer S.C. Compania Conex S.A., Str. Silvestru Nr. 152, 7000012, Iasi, Romania

Sector of the activity Resin, Dye and Glue Company

Education

Period	From November 2003 to October 2007
Qualification/diploma	Doctor in Chemical Engineering
Doctoral thesis	"Study of Mass Transfer in Anodic Dissolution Processes"
Name of institution	Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Chemical Engineering Department, 73 Prof. dr. docent D. Mangeron, 700050, Iasi, Romania, website: www.tuiasi.ro . Fully funded research scholarship
Period	From October 2001 to June 2002
Qualification/diploma	Master of Science
Disciplines approach/competence	Specialization: Environmental Engineering and Management; Dissertation: "Treatment of Wastewater Containing Sulfides" - water management; - pollution minimization at source; - evaluation techniques of environmental impact assessment; - risk assessment; - process monitoring and control.
Name of institution	Faculty of Industrial Chemistry, Gheorghe Asachi Technical University, Iasi, Romania Fully funded study scholarship
Period	From October 1996 to June 2001
Qualification/diploma	Bachelor of Science
Disciplines approach/competence	Specialization: Technology and Biotechnology of Environmental Protection; Project Diploma: Electrochemical Treatment of Wastewater Containing Refractory Organic Compounds - conventional and advanced water and wastewater treatment methods; - air treatment technologies; - optimization in chemical engineering; - chemical engineering technologies; - organic chemistry; - inorganic chemistry; - mathematics.
Name of institution	Faculty of Industrial Chemistry, Gheorghe Asachi Technical University, Iasi, Romania Fully funded study scholarship
Stages abroad	
Period	April 26, 2011 –July 26, 2011
Activity	Research stage, <i>Adsorption of dyes on granular activated carbon</i> , within PNII-RU Grant, No. 52/2010, 44
Name of institution	ICOA, Université d'Orléans, France
Period	October 4, 2008 –October 19, 2008
Activity	Research stage, <i>Characterization of porous adsorption materials</i> , within PNII-IDEI Grant, No. 63/2007, 608
Name of institution	Laboratoire de Matériaux Avances pour la Catalyse et la Santé (Institut Charles Gerhardt – Ecole Nationale Supérieure de Chimie de Montpellier), France.
Period	September 22, 2008 –October 3, 2008
Activity	Research stage, <i>Experimental data processing in adsorption processes</i> , within PNII-IDEI Grant, No. 63/2007, 608
Name of institution	Laboratoire de Génie des Procédés pour l'Environnement, l'Energie et la Santé, Université d'Orléans, France
Period	November 1, 2007 –November 20, 2007
Activity	Documentation stage within PNII-IDEI Grant, No. 63/2007, 608
Name of institution	Laboratoire de Matériaux Avances pour la Catalyse et la Santé (Institut Charles Gerhardt – Ecole Nationale Supérieure de Chimie de Montpellier), France.
Period	From May 3, 2006 to August 3, 2006
Training	Erasmus-Socrates Training Grant: "Wastewater Treatment by Advanced Oxidation Processes"
Disciplines approach/competence	Investigation Methods of Electrochemical Processes (Course); Wastewater Treatment Technology (Course); Removal of Organic Compounds from Wastewater by Physical-Chemical Methods (Project).
Name of institution	Physical Chemistry Lab., Department of Chemistry, Aristotle University of Thessaloniki, Greece

RESEARCH INTERESTS Advanced technologies for water and wastewater treatment.
Corrosion and electrochemical finishing of metals.
Kinetic and mass transfer phenomena.
Statistical and regression analysis of experimental data. Simulation, modeling and optimization of chemical engineering processes.
Design of experiments, response surface methodology and artificial neural networks.

INVITED CONFERENCE *Water Treatment by Electrocoagulation/Granular Activated Carbon Coupling* - Université d'Orléans, France, July 12, 2011

AUTHOR OF 81 papers published and/or presented
36 papers published in ISI indexed journals (33) and conference volumes (3)
38 published papers indexed in Scopus
23 papers presented at international conferences
2 papers published in BDI indexed conference volumes
16 papers published in BDI and CNCIS indexed journals
13 papers presented at national conferences
2 patent requests

SELECTED PAPERS PUBLISHED IN ISI JOURNALS **M.S. Secula**, G.D. Suditu, I. Poullos, C. Cojocar, 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 (IF-2012: 3.473; IS-2012: 2.453) (34 citations). The 7th most downloaded paper published by Elsevier in 2011 on Chemical Engineering subject.
M.S. Secula (corresponding author), 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 (IF-2012: 3.041; IS-2012: 1.273) (13 citations).
M.S. Secula, Y. Barrot, B. Cagnon, F. Versaveau, O. Chedeville, Diethyl phthalate removal by continuous-flow ozonation: Response Surface Modeling and Optimization, *Water, Air, & Soil Pollution*, 224, 2013, 1484-1498, 10.1007/s11270-013-1484-6 (IF-2012: 1.748; IS-2012: 1.147).
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*, 2012, 43 (5), 767-775, doi: 10.1016/j.jtice.2012.03.003 (IF-2012: 2.084; IS-2012: 0.701) (4 citations).
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 Wastewater, *Materials (Special issue: Advances in Colorants)*, 6(7), 2013, 2723-2746; doi:10.3390/ma6072723 (IF-2012: 2.247).

SELECTED PAPERS PRESENTED AT INTERNATIONAL CONFERENCES **M.S. Secula**, B. Cagnon, O. Chedeville, I. Mămăligă, I. Cretescu, Coupling of GAC adsorption and electrooxidative regeneration for the treatment of dye wastewater, *Carbon*, June 2012, **Krakow**, Poland.
M.S. Secula, T.Ferreira de Oliveira, B. Cagnon, O. Chedeville, H.Fauduet, S. Petrescu, Étude de différents charbons actifs granulaires pour l'élimination par électrocoagulation du Carmin Indigo présent dans des eaux usées, *XIII-ème Congrès de la Société Française de Génie des Procédés (SFGP 2011)*, November 29th – December 1st, **Lille**, 2011, France.
M.S. Secula, B. Cagnon, H. Fauduet, S. Petrescu, Modification des propriétés poreuses des charbons actifs et de gels de silice par impregnation au chlorure de calcium, *Le 6ème Colloque Franco-Roumain de Chimie Appliquée (COFRoCA)*, July 2010, **Orléans**, France.
M.S. Secula, R. Diaconescu, C. Petrescu, S. Petrescu, ANN Modeling and Simulation of Gas Drying by Adsorption on Composite Materials, Proceedings - 23rd European Conference on Modelling and Simulation, ECMS 2009, pp. 643-648 (ISI and Scopus indexed). Paper presented at *The 23rd EUROPEAN Conference on Modelling and Simulation*, June 2009, **Madrid**, Spain.
S. Petrescu, I. Galben, **M.S. Secula**, Study of binary gaseous mixtures separation by adsorption in fixed bed, *18th International Congress of Chemical and Process Engineering*, August 2008, **Prague**, Czech Republic.

SCIENTIFIC REFEREE Desalination (7 papers/12 evaluations), *Water Research* (1/1), *Chemical Engineering Journal* (1/2), *Environmental Engineering Science* (1/2), *Desalination and Water Treatment* (4/6): 14 papers reviewed and a total of 23 evaluations performed mainly in the fields of adsorption, electrocoagulation, electrochemical oxidations, photocatalysis, Fenton's reagent, ion exchange, and membranes applied in wastewater treatment, as well as on RSM applied in modeling and optimization of chemical processes.

PATENT AND PATENT REQUEST 1. S. Petrescu, M. Spiridon, I. Solomon, **M.S. Secula**, Unit for gas drying, Patent 127381 A2, RO-BOPI 5/2012, 18.
2. C.S. Stan; I. Cretescu; D. Sibiescu; **M.S. Secula**, Preparation method for a fluorescent composite based on polyethyleneterephthalate and CdSe nanocrystals, Patent request A/0097/5.10.2011 OSIM.

Aptitude and professional competence

Mother language **Romanian**

Foreign languages

Self-evaluation

English language

French language

Official Tests

Management abilities

Competence and organizing aptitudes

Competence and computer skills

Driver's certificate

Understanding

Speaking

Writing

Listening		Reading		Conversation		Oral discussion		Writing proficiency	
C2	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	C2	Proficient User
B2	Independent User	C1	Proficient User	B1	Independent User	A2	Basic User	B1	Independent User

14TH MAY 2005, PAPER-BASED **TOEFL** TEST: 600 (LISTENING: 60; STRUCTURE: 57; READING COMPREHENSION: 63).

21ST NOVEMBER 2005, COMPUTER-BASED **GRE** TEST: VERBAL: 510, QUANTITATIVE: 780

Project manager of PNII-RU Grant, 52/2010, 44, 2010-2012, Budget: 319,909 lei.

Able to plan, organize, and handle a heavy workload.

Work well independently or in a team.

Self-educated regarding the research, publishing activity, national and international collaborations.

Operating with programs as: *Excel*, *Origin*, *MathCAD*, *Table Curve* (Surface fitting software), *Curve Expert* (Regression software), *VoltaMaster* (Electrochemistry software), *Matlab* (Model-Based Calibration Toolbox - Design of Experiments Statistical Modeling, Calibration Generation, Simulink), *NeuroSolutions* (neural network simulation software), *AutoCAD*.

Advanced operating with statistical analysis, modeling and optimization softwares such as: *Modde*, *Design-Expert*, *MiniTab*, *Jmp Statistical Discovery*, *Model-Based Calibration and Calibration Generation Toolbox under Matlab*.

Advanced processing of texts and images: Word, PowerPoint, ISIS Draw (Chemweb, Chemwindow, ChemSketch), Adobe Reader, Adobe PhotoShop.

B category driver's certificate

List of papers

<p>81 PAPERS PUBLISHED AND/OR PRESENTED</p> <p>33 PAPERS PUBLISHED IN ISI INDEXED JOURNALS</p> <p>3 PAPERS PUBLISHED IN ISI INDEXED CONFERENCE VOLUMES</p> <p>38 PAPERS PUBLISHED IN SCOPUS INDEXED JOURNALS AND VOLUMES</p> <p>23 PAPERS PRESENTED AT INTERNATIONAL CONFERENCES</p> <p>30 PAPERS PUBLISHED IN ISI INDEXED JOURNALS</p> <p>2 PAPERS PUBLISHED IN BDI INDEXED CONFERENCE VOLUMES</p> <p>16 PAPERS PUBLISHED IN BDI AND CNCIS INDEXED JOURNALS</p> <p>13 PAPERS PRESENTED AT NATIONAL CONFERENCES</p> <p>35.575 TOTAL IMPACT FACTOR 2012 (TOTAL)</p> <p>10.243 TOTAL INFLUENCE SCORE 2012 (TOTAL)</p> <p>C = 12.848 (>5) P = 6.404 (>2)</p> <p>NT=36 (>25) NP=16 (>12) FIC=23.047 (>16) NC=96 (>40)</p>	<p>Papers published in ISI indexed journals and conference volumes</p> <p style="text-align: center;"><i>Research Grant: "Optimization of a Hybrid Electrocoagulation-Sorption-Electrooxidation System for Wastewater Treatment"</i></p> <ol style="list-style-type: none"> 1. M.S. Secula*, I. Cretescu, S. Petrescu, An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation, <i>Desalination</i>, 277 (1-3), 2011, 227-235 (IF-2011: 3.041; IS-2012: 1.273) (13 citations). 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, <i>Journal of the Taiwan Institute of Chemical Engineers</i>, 43 (5), 2012, 767-775, doi:10.1016/j.jtice.2012.03.003 (IF-2012: 2.084; IS-2012: 0.701) (4 c). 3. M.S. Secula*, I. Cretescu*, S. Petrescu, Electrocoagulation treatment of sulfide wastewater in a batch reactor: effect of electrode material on the electrical operating costs, <i>Environ. Eng. Manag. J.</i>, 11(8), 2012, 1485-1491 (IF-2012: 1.117) (3 c). 4. M.S. Secula*, Gh. Nemtoi, I. Cretescu, Anodic dissolution of some electrode materials involved in electrochemically assisted coagulation, <i>Studia Universitatis Babeş-Bolyai Chemia</i>, 57(3), 2012, 223-236 (IF-2012: 0.089). 5. 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 Wastewater, <i>Materials (Special issue: Advances in Colorants)</i>, 6(7) 2013 2723-2746 (IF-2012: 2.247). 6. M.S. Secula*, I. Cretescu, M. Diaconu, S. Petrescu, The adsorption of acid dye Eriochrome Black T from aqueous solutions onto activated carbon. Kinetic and equilibrium studies, <i>J Environ. Prot. Ecol.</i>, 14(3) 2013 (IF-2012: 0.259). 7. M.S. Secula*, L. Zaleschi, C.S. Stan, I. Mamaliga, 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</i>, 2013 (IF-2012: 0.852; IS-2012: 0.352). <p style="text-align: center;"><i>Erasmus-Socrates Training Grant: "Wastewater Treatment by Advanced Oxidation Processes"</i></p> <ol style="list-style-type: none"> 8. M.S. Secula*, G.D. Suditu, I. Poulis*, C. Cojocar, I. Cretescu*, Response surface optimization of the heterogeneous photocatalytic decolorization of a simulated dyestuff effluent, <i>Chemical Engineering Journal</i>, 141 (1-3), 2008, 18-26 (IF-2012: 3.473; IS-2012: 2.453) (34 c). The 7th most downloaded paper published by Elsevier in 2011 on Chemical Engineering subject. 9. G.D. Suditu, M.S. Secula*, C.G. Piuleac, S. Curteanu, I. Poulis, Modelling of a photocatalytic decolorization process by using neural networks, <i>Rev. Chim.</i>, 59(7), 2008, 816-825 (IF-2012: 0.538; IS-2012: 0.126) (9 c). <p style="text-align: center;"><i>Research Grant: "Innovative electroluminescent nanocomposites for a new approach in polymer based light emitting devices"</i></p> <ol style="list-style-type: none"> 10. C.S. Stan, N. Marcotte, M.S. Secula*, M. Popa, Luminescent xerogels obtained through embedding Tb(III) and Eu(III) complexes in silica matrix, <i>Optical Materials</i>, 2013, 35(9), 1741-1747 (IF-2012: 1.918; IS-2012: 1.66). <p style="text-align: center;"><i>Research Grant: "Complex combinations and nanostructured compounds destined for obtaining some new type of nanocomposite materials with applications in electronic and instrumental chemical analysis"</i></p> <ol style="list-style-type: none"> 11. C.S. Stan, M.S. Secula*, D. Sibiescu, Highly luminescent polystyrene embedded CdSe quantum dots obtained through a modified colloidal synthesis route, <i>Electronic Material Letters</i>, 8 (2), 2012, 325-329 (IF-2012: 1.87) (2 c). 12. C.S. Stan, I. Rosca, D. Sutiman, M.S. Secula*, Highly luminescent europium and terbium complexes based on succinimide and n-hydroxysuccinimide, <i>Journal of Rare Earths</i>, 30 (5), 2012, 401-407 (IF-2012: 1.363; IS-2012: 0.463) (1 c). 13. C.S. Stan, D. Sibiescu, M.S. Secula*, I. Rosca, I. Cretescu, Phosphorescent Composites Based on Polyethyleneterephthalate, <i>Materiale Plastice</i>, 47(3), 2010, 324-327 (IF-2012: 0.379) (1 c). <p style="text-align: center;"><i>Ph.D. Thesis: "Study of Mass Transfer in Anodic Dissolution Processes"</i></p> <ol style="list-style-type: none"> 14. S. Petrescu, M.S. Secula*, I. Cretescu, Gh. Nemtoi, Study on metal anodic dissolution, <i>Rev. Chim.</i>, 60(5), 2009, 462-467 (IF-2012: 0.538; IS: 0.093) (5 c). 15. Gh. Nemtoi, M.S. Secula*, I. Cretescu, S. Petrescu, Voltammetric Characterization of Copper and Aluminum Behavior in Concentrated Aqueous Solutions of Phosphoric Acid, <i>Revue Roumaine de Chimie</i>, 52(7), 2007, 655-659 (IF-2012: 0.331; IS-2012: 0.153) (1 c); also presented at The International Conference on Physical Chemistry Romphyschem-12, Bucharest, Romania, September 2006. 16. Gh. Nemtoi, M.S. Secula*, I. Cretescu, S. Petrescu, Voltammetric study of copper anodic dissolution into copper sulphate and sulphuric acid solutions, <i>Rev. Chim.</i>, 58(12), 2007, 1216-1220 (IF-2012: 0.538; IS-2012: 0.126) (5 c). <p style="text-align: center;"><i>Research Grant: "Researches concerning gas drying by adsorption on composite materials with porous matrix"</i></p> <ol style="list-style-type: none"> 17. I. Solomon, O.R. Hauta, M.S. Secula*, I. Mamaliga, Study of pressure drop in fixed, fluidized and spouted bed of several adsorbent materials, <i>Environ. Eng. Manag. J.</i>, 2013, accepted (IF-2012: 1.117). 18. M.S. Secula*, R. Diaconescu, C. Petrescu, S. Petrescu, ANN Modeling and Simulation of Gas Drying by Adsorption on Composite Materials, <i>Proceedings - 23rd European Conference on Modelling and Simulation, ECMS 2009</i>, pp. 643-648. Presented at The 23rd EUROPEAN Conference on Modelling and Simulation, June 2009, Madrid, Spain (1 c). 19. M. Spiridon, O.R. Haută, M.S. Secula*, S. Petrescu, Preparation and Characterization of Some Porous Composite Materials for Water Vapor Adsorption, <i>Rev. Chim.</i>, 2012, (IF-2012: 0.538; IS: 0.126) 2012, 63 (7), 711-714 (1 c). 20. M. Spiridon, M.S. Secula*, S. Petrescu, Wet air-drying by adsorption on active carbon impregnated with calcium chloride, <i>Rev. Roum. Chim.</i>, 55(6), 2010, 289-298 (IF-2012: 0.331; IS-2012: 0.153) (2 c). 21. M.S. Secula*, R. Diaconescu, S. Petrescu, 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 Babeş-Bolyai Chemia</i>, 2009, LIV, 2, 133-144 (IF-2012: 0.089) (2 c). 22. M.S. Secula*, M. Spiridon, I. Solomon, S. Petrescu, Response Surface Modeling of Water Vapor Adsorption in Fixed Bed of Impregnated Alumina Grains, <i>Revista de Chimie</i>, 2011, 62(12), 1175-1179 (IF-2012: 0.538; IS-2012: 0.126). 23. R. Diaconescu, M.S. Secula*, S. Petrescu, Study of gas drying by adsorption on composite materials using neural networks, <i>Rev. Chim.</i>, 2009, 60(10), 1065-1069 (IF-2012: 0.538; IS-2012: 0.126) (6 c). 24. S. Petrescu, L.D. Horoba, I.G. Galben, M.S. Secula*, Study of mass transfer at gas drying by adsorption on composite materials, <i>Rev. Chim.</i>, 60(3), 2009, 308-312 (IF-2012: 0.538; IS-2012: 0.126) (4 c). 25. S. Petrescu, M.S. Secula*, Mathematical modeling of gas drying by adsorption, <i>Environ. Eng. Manag. J.</i>, 7 (3), 2008, 179-191 (IF-2012: 1.117) (2 c).
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26. **M.S. Secula**, Y. Barrot, B. Cagnon, F. Versaveau, O. Chedeville, Diethyl phthalate removal by continuous-flow ozonation: Response Surface Modeling and Optimization, *Water, Air, & Soil Pollution*, 224, 2013, 1484-1498, (IF-2012: 1.748; IS-2012: 1.147).
27. C. Pohontu, I. Cretescu, **M.S. Secula**, C. Paduraru, L. Tofan, M. Macoveanu, Integrated treatment of leachate from municipal landfill, *Environ. Eng. Manag. J.*, 9(1), 2010, 95-100 (IF-2012: 1.117); (poster), **The 5th International Conference of Environmental Engineering and Management**, ICEEM/05, September, 2009, Tulcea, Romania (5 c).
28. C. Pohontu, I. Cretescu, **M.S. Secula**, M. Macoveanu, Response surface Methodology for the Optimization of Landfill Leachate Treatment Using Ion Exchange Resins, *Environ. Eng. Manag. J.*, 10(3), 2011, 357-366 (IF-2012: 1.117). Presented at **The 1st International Symposium on Control and Metrology of Environmental Quality Factors (CMEQF 01-2010)**, Iasi, Romania, November, 2010 (3 c).
29. S. Turcuman, D. Sibiescu, I. Rosca, **M.S. Secula**, I. Cretescu, Compounds of Fe(III) and Co(II) Coordinated with Oxygen Atoms, *Revista de Chimie (Bucharest)*, 62(2), 2011, 189-194 (IF-2012: 0.538; IS: 0.093) (2 c).
30. D. Sibiescu, I. Spatarescu, I. Rosca, I. Cretescu, **M.S. Secula**, New Complexes of Zn(II), Cd(II) and Hg(II) with Ligand Derived from 1-(3,5-diiodo, 2-hydroxy, 4-methyl phenyl), 2-phenyl sulfanyl ethanone, *Rev. Chim.*, 61(2), 2010, 130-134 (IF-2012: 0.538; IS-2012: 0.126) (1 c).
31. I. Spatarescu, D. Sibiescu, I. Rosca, A. Cailean, I. Cretescu, **M.S. Secula**, Synthesis and Characterization of a New Coordination Compounds of Cr(III), Fe(III) and Cr(II) with Ligand Derived from N,N'-bis(Salicylidene)-Methinmethyldiamine, *Rev. Chim.*, 61(3), 2010, 306-310 (IF-2012: 0.538; IS-2012: 0.126) (3 c).
32. D. Sibiescu, S. Turcuman, D. Tutulea, I. Rosca, A. Cailean, I. Cretescu, **M.S. Secula**, New Complexes of Mn(II), Fe(III) and Co(II), *Rev. Chim.*, 61(3), 2010, 311-315 (IF-2012: 0.538; IS-2012: 0.126) (3 c).
33. S. Turcuman, D. Sibiescu, I. Rosca, A. Cailean, I. Cretescu, C.Y. Rosca, **M.S. Secula**, Compounds of Mn(II), Co(II) and Ni(II) with Ligand Derived from Morfolin-4 Carboditioic Acid-2(3,5 Diiod, 4 Methyl 2 Hydroxyphenyl) 2-Oxoethylester, *Rev. Chim.*, 61(4), 2010, 355-359 (IF-2012: 0.538; IS-2012: 0.126).
34. S. Turcuman, D. Sibiescu, I. Rosca, I. Cretescu, **M.S. Secula**, Synthesis and Characterization of some Coordination Compounds of Mn(II), Co(II) and Fe(III) with 1-(3 bromine, 2 hydroxy, 4 methyl-phenyl)-2-(4 bromine-phenyl-sulphonyl)-ethanone, *Rev. Chim.*, 61(10), 2010, 951-956 (IF-2012: 0.538; IS-2012: 0.126) (1 c).
35. C. Luca, A.M. Grigoriu, R.M. Diaconescu, **M.S. Secula**, Modeling and Simulation of Monochlorotriazinyl- β -cyclodextrin Paper Grafting by Artificial Neural Network, *Rev. Chim.*, 62 (10), 2011, 1033-1038 (IF-2012: 0.538; IS-2012: 0.126) (2 c).
36. S. Petrescu, **M.S. Secula**, Study of Mass Transfer at Non-Spherical Single Particle Dissolution, *Rev. Chim.*, 56 (10), 2005, 977-980 (IF-2012: 0.538; IS-2012: 0.126) (1 c).

Papers presented at international conferences

Research Grant: "Optimization of a Hybrid Electrocoagulation-Sorption-Electrooxidation System for Wastewater Treatment"

37. **M.S. Secula**, B. Cagnon, O. Chedeville, I. Mămăligă, I. Cretescu, Coupling of GAC adsorption and electrooxidative regeneration for the treatment of dye wastewater, **Carbon**, June 2012, **Krakow**, Poland.
38. **M.S. Secula**, T. Ferreira de Oliveira, B. Cagnon, O. Chedeville, H. Fauduet, S. Petrescu, Étude de différents charbons actifs granulaires pour l'élimination par électrocoagulation du Carmin Indigo présent dans des eaux usées, *XIII-ème Congrès de la Société Française de Génie des Procédés (SFGP 2011)*, Lille, France, November 29th, 2011.
39. **M.S. Secula**, I. Cretescu, S. Petrescu, Equilibrium and kinetic study of azo dye sorption on a commercial activated carbon, *The 1st International Symposium on Control and Metrology of Environmental Quality Factors (CMEQF 01-2010)*, Iasi, Romania, November, 2010.

Research Grant: "Researches concerning gas drying by adsorption on composite materials with porous matrix"

40. O.R. Haută, B. Cagnon, **M.S. Secula**, I. Mămăligă, Carbon dioxide sorption on some selective composites: equilibrium and kinetics, Centenary of Education in Chemical Engineering, 28-30 November 2012, Iasi, Romania
41. O.R. Haută, **M.S. Secula**, B. Cagnon, I. Solomon, I. Mămăligă, A study on the equilibrium and kinetics of water vapor sorption on some carbon-based, water selective composites, **Carbon**, June 2012, **Krakow**, Poland.
42. O.R. Haută, **M.S. Secula**, I. Solomon, I. Mămăligă, A study on water vapor sorption equilibrium and kinetics onto alumina and silica-based composite materials, *CHEMIA 2012 "New Trends in Applied Chemistry" International Conference*, May 2012, Constanta, Romania.
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