

Personal information

Name Secula, Marius Sebastian

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

Web-pages ResearchGate; Academia; Ad Astra; Google Scholar

ResearcherID: <u>G-2585-2011</u>; ORCID No.: <u>0000-0002-4148-0106</u>; Scopus ID: <u>15133304000</u>

Nationality Romanian Birth date 31.12.1976

Professional experience

> Period From October 2017 to October 2018

Function Le Studium Research Fellow

Independent research activity; experimental planning; data processing and interpretation, communication of scientific results. Activities and

responsibilities

Name of the employer Le Studium Loire Valley Institute for Advanced Studies, ICMN, Orleans

> Period From October 2015 to September 2017 Function Project Manager, Postdoc Researcher

Development and optimization of an innovative photo-Fenton-peroxone system for degrading organic micropollutants Research project

in water

PNII-RU-TE-2014-4-0405 Grant

Research team leadership (2 postdocs and 2 Ph.D. students); experimental planning and laboratory development; data Activities and

processing, publication and communication of scientific results. responsibilities

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

> Period From August 2010 to July 2012

Project Manager, Postdoc Researcher Function

Research project Optimization of a hybrid electrocoagulation-sorption-electrooxidation system for wastewater treatment

PNII-RU-PD Grant, No 52/2010, COD 44

Independent research activity; experimental planning and acquisition of necessary laboratory equipment and analytical reagents; Activities and responsibilities

experimental data processing and interpretation, mathematical modeling, simulation and optimization of investigated processes,

publication and communication of scientific results.

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

> Period From August 2012 to December 2015

Innovative electroluminescent nanocomposites for a new approach in polymer based light emitting devices Research project

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

Laboratory research activity; experimental planning and data interpretation; publication of scientific results Activities and

responsibilities

Function Postdoc Researcher

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

Romania

From July 2002 to October 2003 Period

Environmental Engineer Function

Knowledge of Romanian environmental legislation; preparation of documents required by the local Environmental Protection Activities and

Agency; responsibilities on environmental issues. responsibilities

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

Sector of the activity Resin, Dye and Glue Company **Education**

Period From November 2003 to October 2007

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 Specialization: Environmental Engineering and Management; Dissertation: "Treatment of Wastewater Containing

approach/competence Sulfides"

water management; pollution minimization at source; 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 Specialization: Technology and Biotechnology of Environmental Protection; Project Diploma: Electrochemical

approach/competence 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

Research stages

Period April 18, 2016 - July 8, 2016

Activity Research stage, Identification of intermediary compounds of micropollutant degradation by advanced oxidation

processes, within PN-II-RU-TE-2014-4-0405.

Name of institution ICMN, CNRS, Orléans, France

Period April 26, 2011 - July 26, 2011

Activity Research stage, Adsorption of dyes on granular activated carbon, 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, Characterization of porous adsorption materials, 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, Experimental data processing in adsorption processes, within PNII-IDEI Grant, No. 63/2007, 608

Name of institution Laboratoire de Génie des Procèdes 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 Investigation Methods of Electrochemical Processes (Course);

approach/competence 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

Advanced technologies for water and wastewater treatment RESEARCH INTERESTS

Applied electrochemistry

Synthesis and characterization of adsorbents and catalysts

Transport phenomena and kinetics of chemical and electrochemical processes Simulation, modeling and optimization of chemical engineering processes

INVITED CONFERENCE

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

- AUTHOR OF 98 papers published and/or presented
 - 43 papers published in ISI indexed journals (40) and conference volumes (3)
 - 44 published papers indexed in Scopus
 - 35 papers presented at international conferences
 - 4 papers published in BDI indexed conference volumes
 - 20 papers published in BDI and CNCSIS indexed journals
 - 14 papers presented at national conferences
 - 2 patents and 1 patent request

SELECTED PAPERS **PUBLISHED IN ISI JOURNALS**

M.S. Secula, G.D. Suditu, I. Poulios, 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, (IF-2015: 5.31) (63 citations). The 7th most downloaded paper published by Elsevier in 2011 on Chemical Engineering subject.

M.S. Secula, I. Cretescu, S. Petrescu, An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation, **Desalination**, 277 (1-3), 2011, 227-235, (IF-2015: 4.412) (65 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, 1-14, (IF-2015: 1.551) (2 citations).

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, (IF-2015: 2.848) (35 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; (IF-2015: 2.728) (30 citations).

SELECTED PAPERS PRESENTED AT CONFERENCES

M.S. Secula, L.Zaleschi, B. Cagnon, A. Vajda, I. Mamaliga, Iron(II)-impregnated and magnetic activated carbon used as Fenton like catalysts for photodegrading organic compounds, 1st International Conference on Sustainable Water Processing, September 11-14, 2016, Sitges, Spain.

M.S. Secula, B. Cagnon, O. Chedeville, Etude de la cinétique et de la thermodynamique d'adsorption sur charbons actifs de trois colorants dans différentes conditions opératoires, XIVe Congrès de la Société Française de Génie des Procédés (SFGP 2013), October 2013, Lyon, France.

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, 2011, Lille, France.

M.S. Secula, R. Diaconescu, C. Petrescu, S. Petrescu, ANN Modeling and Simulation of Gas Drying by Adsorption on Composite Materials, The 23rd European Conference on Modelling and Simulation, June 2009, Madrid, Spain.

PATENTS

1. S. Petrescu, M. Spiridon, I. Solomon, M.S. Secula, Gas drying equipment, comprises vertical cylindrical body provided inside with low-thickness adsorbent layer located between two concentric perforated cylindrical shell rings and inner space, Patent RO127381-A2, 2012.

2. C.S. Stan; I. Cretescu; D. Sibiescu; M.S. Secula, Process for obtaining a fluorescent composite based on polyethyleneterephthalate and cadmium selenide nanocrystals, Patent RO128622-A2, 2013.

3. C.S. Stan: M.S. Secula, Preparation method of polymer cryogels based on 2-hydroxyethyl methacrylate and graphene oxide, Patent request.

SCIENTIFIC REFEREE

37 papers reviewed and 64 evaluations performed mainly in the fields of adsorption, electrocoagulation, electrochemical oxidations, photocatalysis, Fenton's reagent, ion exchange, and membranes applied in wastewater treatment, synthesis and characterization of composite materials, as well as on RSM applied in modeling and optimization of chemical processes.

Aptitude and professional competence

Mother language Romanian

Understanding Foreign languages Speaking

Self-evaluation **English language**

French language

n	Listening		Reading		Conversation		Oral discussion		vvriting proficiency	
е	C2	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	C2	Proficient User
е	B2	Independent User	C1	Proficient User	B1	Independent User	A2	Basic User	B1	Independent User

Writing

Official Tests

14TH MAY 2005, PAPER-BASED TOEFL TEST

Work well independently or in a team.

21ST NOVEMBER 2005, COMPUTER-BASED GRE TEST

Management abilities

Project manager of PNII-RU-PD Grant, 52/2010, 44, 2010-2012, Budget: 319,909 lei (~75,000 EUR).

Project manager of PNII-RU-TE-2014-4-0405 Grant, Budget 550,000 lei (~125,000 EUR).

Competence and organizing aptitudes

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

Competence and computer skills Operating with programs as: Excel, Origin, ChemCAD, 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), NeuroSolutions (neural network simulation software).

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

Scientific memberships

The International Water Association (IWA); World Academy of Science Engineering and Technology (WASET)

Driver's certificate

B category driver's certificate

40 PAPERS
PUBLISHED IN ISI
INDEXED JOURNALS

3 PAPERS PUBLISHED IN ISI INDEXED CONFERENCE VOLUMES

> 35 PAPERS PRESENTED AT INTERNATIONAL CONFERENCES

2 PAPERS PUBLISHED
IN BDI INDEXED
CONFERENCE
VOLUMES

18 PAPERS
PUBLISHED IN BDI
AND CNCSIS INDEXED
JOURNALS

14 PAPERS
PRESENTED AT
NATIONAL
CONFERENCES

Papers published in ISI indexed journals and conference volumes

Research Grant: "Development and optimization of an innovative photo-Fenton-peroxone system for degrading organic micropollutants in water"

1. E. Dávid, M.S. Secula, G. Özdemir, I. Mămăligă, Mechanisms of para-chlorophenol adsorption onto activated carbons having different textural and chemical properties, Desalination and Water Treatment, 62, 2017, 221-234 (IF-2015: 1.272).

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

- 2. <u>M.S. Secula</u>*, I. Cretescu, S. Petrescu, An experimental study of Indigo Carmine removal from aqueous solution by electrocoagulation, *Desalination*, 277 (1-3), 2011, 227-235 (IF-2015: 4.412) (65 citations).
- 3. <u>M.S. Secula</u>, 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, (IF-2015: 2.848) (35 citations).
- 4. <u>M.S. Secula</u>, C.S. Stan, C. Cojocaru, B. Cagnon, I. Cretescu, Multi-Objective Optimization of Indigo Carmine Removal by an Electrocoagulation/GAC Coupling Process in a Batch Reactor, **Separation Science and Technology**, 49 (6) 2014, 924-938, doi:10.1080/01496395.2013.871292 (IF-2015: 1.294) (3 citations).
- 5. <u>M.S. Secula</u>*, I. Cretescu, S. Petrescu, Electrocoagulation treatment of sulfide wastewater in a batch reactor: effect of electrode material on the electrical operating costs, *Environ. Eng. Manag. J.*, 11(8), 2012, 1485-1491 (IF-2015: 1.008) (17c).
- 6. <u>M.S. Secula</u>*, Gh. Nemtoi, I. Cretescu, Anodic dissolution of some electrode materials involved in electrochemically assisted coagulation, *Studia Universitatis Babes-Bolyai Chemia*, 57(3), 2012, 223-236 (IF-2015: 0.148) (**1 c**).
- 7. <u>M.S. Secula</u>, 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* (*Special issue: Advances in Colorants*), 6(7) 2013 2723-2746 (IF-2015: 2,728) (**30 c**).
- 8. <u>M.S. Secula*</u>, 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, *Desalination and Water Treatment*, 52(31-33) 2013, 6135-6144 (IF-2015: 1.272) (4 c).
- 9. <u>M.S. Secula</u>, I. Cretescu*, M. Diaconu, Adsorption of acid dye Eriochrome Black T from aqueous solutions onto activated carbon, *Journal of Ecology and Environmental Protection*, 15(4) 2014 1583–1593 (IF-2015: 0.734) (**1 c**).
- 10. L. Zaleschi, <u>M.S. Secula</u>, C. Teodosiu, C.S. Stan, I. Cretescu, Removal of Rhodamine 6G from Aqueous Effluents by Electrocoagulation in a Batch Reactor: Assessment of Operational Parameters and Process Mechanism, *Water Air Soil Pollut* 225 (2014) 2101, (IF-2015: 1.551) (4 c).

Erasmus-Socrates Training Grant: "Wastewater Treatment by Advanced Oxidation Processes"

- 11. <u>M.S. Secula</u>, G.D. Suditu, I. Poulios*, 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 (IF-2015: 5.31) (63 c). The 7th most downloaded paper published by Elsevier in 2011 on Chemical Engineering subject.
- 12. G.D. Suditu, <u>M.S. Secula</u>, C.G. Piuleac, S. Curteanu, I. Poulios, Modelling of a photocatalytic decolorization process by using neural networks, *Rev. Chim.*, 59(7), 2008, 816-825 (IF-2015: 0.956) (**12 c**).

Ph.D. Thesis: "Study of Mass Transfer in Anodic Dissolution Processes"

- S. Petrescu, <u>M.S. Secula</u>, I. Cretescu, Gh. Nemtoi, Study on metal anodic dissolution, *Rev. Chim.*, 60(5), 2009, 462-467 (IF-2015: 0.956) (11 c).
- 14. Gh. Nemtoi, <u>M.S. Secula</u>*, I. Cretescu, S. Petrescu, Voltammetric Characterization of Copper and Aluminum Behavior in Concentrated Aqueous Solutions of Phosphoric Acid, *Revue Roumaine de Chimie*, 52(7), 2007, 655-659 (IF-2015: 0.25) (3 c); also presented at *The International Conference on Physical Chemistry Romphyschem-12*, Bucharest, Romania, September 2006.
- Gh. Nemtoi, <u>M.S. Secula*</u>, I. Cretescu, S. Petrescu, Voltammetric study of copper anodic dissolution into copper sulphate and sulphuric acid solutions, *Rev. Chim.*, 58(12), 2007, 1216-1220 (IF-2015: 0.956) (5 c). Research Grant: "Innovative electroluminescent nanocomposites for a new approach in polymer based light emitting devices"
- 16. C.S. Stan, N. Marcotte, <u>M.S. Secula</u>, M. Popa, Luminescent xerogels obtained through embedding Tb(III) and Eu(III) complexes in silica matrix, Optical Materials, 2013, 35(9), 1741-1747 (IF-2015: 2.183) (2 c).
- 17. C.S. Stan, N. Marcotte, <u>M.S. Secula</u>, M. Popa, A New Photoluminescent Silica Aerogel Based on N-Hydroxysuccinimide –Tb(III) Complex, Journal of Sol-Gel Science and Technology, 69(1), 2014, 207-213 (IF-2015: 1.473) (4 c).
- 18. C.S. Stan, M. Popa, M. Olariu, <u>M.S. Secula</u>, Synthesis and characterization of PSSA-Polyaniline composite with enhanced processability in thin films, *Open Chem.*, 2015; 13: 467–470 (IF-2015: 1.207) (1 c).

Research Grant: "Complex combinations and nanostructured compounds destined for obtaining some new type of nanocomposite materials with applications in electronic and instrumental chemical analysis"

- 19. C.S. Stan, <u>M.S. Secula</u>*, D. Sibiescu, Highly luminescent polystyrene embedded CdSe quantum dots obtained through a modified colloidal synthesis route, *Electronic Material Letters*, 8 (2), 2012, 325-329 (IF-2015: 2.057) (11 c).
- 20. C.S. Stan, I. Rosca, D. Sutiman, <u>M.S. Secula</u>*, Highly luminescent europium and terbium complexes based on succinimide and n-hydroxysuccinimide, *Journal of Rare Earths*, 30 (5), 2012, 401-407 (IF-2015: 2.188) (**10 c**).
- 21. C.S. Stan, D. Sibiescu, <u>M.S. Secula</u>, I. Rosca, I. Cretescu, Phosphorescent Composites Based on Polyethyleneterephtalate, *Materiale Plastice*, 47(3), 2010, 324-327 (IF-2015: 0.903) (**2 c**).

 Research Grant: "Researches concerning gas drying by adsorption on composite materials with porous matrix"
- 22. E.T. lacob-Tudose, E. David, *M.S. Secula*, I. Mamaliga, Adsorption equilibrium and effective diffusivity in cylindrical alumina particles impregnated with Calcium Chloride, *Environ. Eng. Manag. J.*, 14(3), 2015, 503-508 (IF-2015: 1.008).
- 23. I. Solomon, O.R. Hauta, *M.S. Secula*, I. Mamaliga, Study of pressure drop in fixed, fluidized and spouted bed of several adsorbent materials, *Environ. Eng. Manag. J.*, 14(10), 2013, 2303-2308 (IF-2015: 1.008).
- 24. <u>M.S. Secula</u>, 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. Presented at *The 23rd EUROPEAN Conference on Modelling and Simulation*, June 2009, Madrid, Spain (2 c).

- 25. M. Spiridon, O.R. Haută, <u>M.S. Secula</u>, S. Petrescu, Preparation and Characterization of Some Porous Composite Materials for Water Vapor Adsorption, Rev. Chim., 63 (7) 2012, 711-714 (IF-2015: 0.956) (6 c).
- 26. M. Spiridon, <u>M.S. Secula</u>, S. Petrescu, Wet air-drying by adsorption on active carbon impregnated with calcium chloride, *Rev. Roum. Chim.*, 55(6), 2010, 289-298 (IF-2015: 0.25) (2 c).
- 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, Studia Universitatis Babes-Bolyai Chemia, 2009, 133-144 (IF-2015: 0.148) (2 c).
- 28. <u>M.S. Secula</u>*, M. Spiridon, I. Solomon, S. Petrescu, Response Surface Modeling of Water Vapor Adsorption in Fixed Bed of Impregnated Alumina Grains, Revista de Chimie, 2011, 62(12), 1175-1179 (IF-2015: 0.956) (**5 c**).
- 29. R. Diaconescu, *M.S. Secula*, S. Petrescu, Study of gas drying by adsorption on composite materials using neural networks, *Rev. Chim.*, 2009, 60(10), 1065-1069 (IF-2015: 0.956) (7 c).
- 30. S. Petrescu, L.D. Horoba, I.G. Galben, <u>M.S. Secula</u>, Study of mass transfer at gas drying by adsorption on composite materials, *Rev. Chim.*, 60(3), 2009, 308-312 (IF-2015: 0.956) (6 c).
- 31. S. Petrescu, <u>M.S. Secula</u>, Mathematical modeling of gas drying by adsorption, *Environ. Eng. Manag. J.*, 7 (3), 2008, 179-191 (IF-2015: 1.008) (4 c).

Other collaborations:

- 32. M. Pirsaheb, H. Hossini, <u>M. S. Secula</u>, M. Parvaneh, Application of high rate integrated anaerobic-aerobic/biogranular activated carbon sequencing batch reactor (IAnA-BioGACSBR) for treating strong municipal landfill leachate, *Scientific Reports*, 7, 2017, art no. 3109.
- 33. <u>M.S. Secula</u>, Y. Barrot, B. Cagnon, F. Versaveau, O. Chedeville, Diethyl phthalate removal by continuous-flow ozonation: Response Surface Modeling and Optimization, *Water Air Soil Pollut*, 224, 2013, 1484, 1-14, (IF-2015: 1.551).
- 34. C. Pohontu, I. Cretescu, <u>M.S. Secula</u>, C. Paduraru,L. Tofan, M. Macoveanu, Integrated treatment of leachate from municipal landfill, *Environ. Eng. Manag. J.*, 9(1), 2010, 95-100 (IF-2015: 1.008); (poster), *The 5th International Conference of Environmental Engineering and Management*, ICEEM/05, September, 2009, Tulcea, Romania (6 c).
- 35. C. Pohontu, I. Cretescu, <u>M.S. Secula</u>, 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-2015: 1.008). Presented at *The 1st International Symposium on Control and Metrology of Environmental Quality Factors* (*CMEQF 01-2010*), lasi, Romania, November, 2010 (5 c).
- 36. S. Turcuman, D. Sibiescu, I. Rosca, <u>M.S. Secula</u>, I. Cretescu, Compounds of Fe(III) and Co(II) Coordinated with Oxygen Atoms, Revista de Chimie (Bucharest), 62(2), 2011, 189-194 (IF-2015: 0.903) (2 c).
- 37. 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-2015: 0.903) (1 c).
- 38. I. Spatarescu, D. Sibiescu, I. Rosca, A. Cailean, I. Cretescu, <u>M.S. Secula</u>, 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-2015: 0.903) (3 c).
- 39. 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-2015: 0.903) (3 c).
- 40. 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 Hydroxiphenyl) 2-Oxoethylesther, Rev. Chim., 61(4), 2010, 355-359 (IF-2015: 0.903).
- S. Turcuman, D. Sibiescu, I. Rosca, I. Cretescu, <u>M.S. Secula</u>, 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-sulphanyl)ethanone, Rev. Chim., 61(10), 2010, 951-956 (IF-2015: 0.903) (1 c).
- 42. C. Luca, A.M. Grigoriu, R.M. Diaconescu, <u>M.S. Secula</u>, Modeling and Simulation of Monochlorotriazinyl-β-cyclodextrin Paper Grafting by Artificial Neural Network, Rev. Chim., 62 (10), 2011, 1033-1038 (IF-2015: 0.903) (2 c).
- 43. S. Petrescu, <u>M.S. Secula</u>, Study of Mass Transfer at Non-Spherical Single Particle Dissolution, *Rev. Chim.*, 56 (10), 2005, 977-980 (IF-2015: 0.903) (1 c).

Papers presented at international conferences

- Research Grant: "Development and optimization of an innovative photo-Fenton-peroxone system for degrading organic micropollutants in water"
- 44. A. Vajda, <u>M.S. Secula</u>, B. Cagnon, I. Mamaliga, Iron(II)-embedded composites based on activated carbon used as fenton-like catalysts, The 10th International Conference on Materials Science & Engineering BraMat 2017, Brasov, 8-11 Martie, 2017.
- 45. <u>M.S. Secula</u>, A. Vajda, L. Hagiu-Zaleschi, B. Cagnon, F. Warmont, I. Mamaliga, Iron(II)-Impregnated Activated Carbon Composites Applied as Fenton-like Catalysts for Degrading Persistent Organic Compounds, 15th International Conference on Environmental Science And Technology, 29 August – 2 Septembrie, Rodos, Grecia 2017 (Proceedings of the International Conference on Environmental Science and Technology ISSN 1106-5516 ISBN 978-960-7475-53-4).
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