

PERSONAL INFORMATION

Igor Cretescu



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Sex M | Date of birth . | Nationality Romanian

WORK EXPERIENCE

- | | |
|-------------------|--|
| From 2013-present | <p>Full Professor</p> <p>Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania</p> <ul style="list-style-type: none"> ▪ Teaching and research activities Sources of Radiation and Protection Technologies Sensors Applied in Environmental Monitoring Optimization and Modeling of Environmental and Chemical Processes |
| From 2001-2013 | <p>Business or sector High Education</p> <p>Associated Professor</p> <p>Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania</p> <ul style="list-style-type: none"> ▪ Teaching and research activities Radiochemistry, Radiation Sources and Environmental Protection Sensors Applied in Environmental Monitoring Optimization and Modeling of Chemical Processes |
| From 1997 to 2001 | <p>Business or sector High Education</p> <p>Lecturer</p> <p>Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania</p> <ul style="list-style-type: none"> ▪ Teaching and research activities Radio and Electro-Chemistry Sensors Applied in Environmental Monitoring Optimization and Modeling of Environmental Processes Recycling Technologies of Wastes Dangerous Waste Treatments and Environmental Technologies |
| From 1997 to 2001 | <p>Business or sector High Education</p> <p>Assistant Professor</p> <p>Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania</p> <ul style="list-style-type: none"> ▪ Teaching and research activities Environmental Technologies and Radio-ElectroChemistry Electro-Analytical Methods of Analyses Optimization and Modeling Methods of Chemical Processes <p>Business or sector High Education</p> |
| From 1989 to 1990 | <p>Research Engineer</p> <p>Synthetic Fibres Research Centre, Savinesti, Romania</p> |

Technical supervisor of pilot plant for Electrosynthesis of Persulfate Salts and Kolbe dimerization of dicarboxylic acids
Business or sector Industrial research

EDUCATION AND TRAINING

- From February 2005 to September 2005 **Master of Science**
Faculty of Physics, Department of Nuclear Physics, University of Bucharest, Romania
- Radioisotope separation
 - Measure of ionising radiation
 - Gamma spectrometry
- From November 1990 to December 1999 **Doctor in Chemical Engineering**
"Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Chemistry, 73 Bvd. D. Mangeron, 700050, Iasi, Romania
- Contributions to the investigation and optimization of electrode processes applied in the electrosynthesis of N,N-dimethyle-p-phenilene diamine and electrochemical treatment of the resulted wastewater, 217 p, 1999
- From September 1984 to July 1989 **Bachelor of Science in Chemical Engineering**
Polytechnic Institute of Iasi, Faculty of Industrial Chemistry, 73 Bvd. D. Mangeron, 700050, Iasi, Romania
- Organic compounds technology and design of chemical processes and equipments
- Research stages
- 2002– Research Stage (postdoctoral): The materials for ion selective electrode (selective membrane-sensor), Polish Academy of Science, Olsztyn Branch, Poland;
- 2001– Specialization Course: Atomic and Nuclear Physics, Faculty of Physics, University of Bucharest, Romania;
- 2000 – Research Stage: Electrode material for electrochemical treatment of organic wastewaters, University of Sherbrooke, Canada;
- 2000 – Doctoral Diploma (PhD.): Faculty of Industrial Chemistry, "Gheorghe Asachi" Technical University of Iasi;
- 1997– Specialization Certificate: Sensors and data acquisitions systems, Faculty of Computer Science and Microelectronics, Technical University of Moldova, Chisinau, Republic of Moldova;
- 1996 - Specialization Certificate: Investigation of organic electrochemical processes, "M.V. Lomonosov" Moscow State University, Russia;
- 1996 - Specialization Certificate: Organic electrosynthesis technology and electrochemical treatment of waste waters, "M.D. Mendeleev" Russian University of Chemical Technology Moscow, Russia;
- 1995 - Specialization Certificate: Semiconductors Sensors, Physical Engineering Institute, Moscow, Russia

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient User C1	Proficient User C2	Proficient User C1	Proficient User C2	Proficient User C2

		Multilanguage trading center, Iasi, Romania				
French	Proficient	Proficient	Proficient	Proficient	Proficient	
	User C1	User C2	User C1	User C2	User C1	
		"Al. I. Cuza" University of Iasi, Romania				
Russian	Proficient	Proficient	Proficient	Proficient	Proficient	
	User B1	User B2	User B2	User B1	User B1	
		D. Mendeleev University of Chemical Technology of Russia, Moscow				
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user						
<u>Common European Framework of Reference for Languages</u>						

Organisational / managerial skills

- Head of Environmental Engineering and Management Department, since 2012; (Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi", Technical University of Iasi)
- Deputy Head of Environmental Engineering and Management Department, since 2008; (Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi", Technical University of Iasi)
- Member of Faculty Council, since 2008 (Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi", Technical University of Iasi)

Organization of scientific events:

Exhibition of Innovations as INVENTICA Iasi, INVENTIKA Bucharest International Conferences:

1. International Symposium Control and Metrology of Environmental Quality Factors (IS.CMEQF- 01), November 23– 27, 2010, Iasi

Website: http://www.hidromed.ro/cmeqf_01.php

2. The 5th International Conference on ENVIRONMENTAL ENGINEERING AND MANAGEMENT ICEEM/05, 15-19 September, 2009 Tulcea, Danube Delta – Romania

Website: http://www.iceem06.iceem.eu/docs/past/ICEEM05_Program.pdf

3. The 6th International Conference Environmental Engineering and Management, "Green Future!", 1 – 4 September, 2011, Lake Balaton, Hungary.

Website: <http://www.iceem06.iceem.eu/index.html>

4. The XIV-th International Conference of Inventics, The XIV-th International Exhibition of Research, Innovation and Technological Transfer "INVENTICA 2010" June 9-11, 2010, Iasi, Romania.

Website: <http://www.inventica.org.ro/inventica2010/>

5. International Conference „Inventics – Performance and Technical Creativity”, XII-th Edition

Website: <http://www.inventica.org.ro/inventica2008/>

Scientific coordination of students:

- coordination of BA Thesis and Dissertation thesis of students
- mentor of Ph.D students

Communication skills

- good communication skills gained through my experience as a teacher, head of department and research leader
- self-educated regarding the research, publishing activity, national and international collaboration
- facile interactions between academic and industrial activities

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
 Digital competences - Self-assessment grid

- PC software/ hardware installation and repair (extensive);
- Windows Operating Systems (98, 2000 Pro. And XP Pro);
- Windows Networking;
- Linux (Basic installation and system management);
- Scientific Programming in Quick BASIC and Turbo Pascal;
- Web design and administration;
- Wording and processing of texts and images: Microsoft Office(Word, PowerPoint), Photoimpact, ChemDraw, Adobe - Photoshop, etc.;
- Operating with programs as: MathCAD, Visio, Lab Windows, Corel, Microsoft Excel, SigmaPlot, etc.

Research interests

Monitoring of Environmental components
Sensors and their applications in quality - control of the environment and products
Modeling and Optimization process
Treatment of fluid waste stream
Valorization and recycling of wastes using different treatment methods
Development (syntheses) and characterization of new materials for use in environmental applications:

1. Membranes: permeability, selectivity, electrical and mechanical properties, etc.
2. Nanostructured and polydispersed sorbents: mesoporous zeolites, clays, composite particles or fibres, etc.

Development of new compounds for use in sensor and monitoring technologies:

1. Organic ligands available to form ion-ligand complex and to be compatible with the polymeric matrix of membrane sensor;
2. Design and Synthesis of Functional Coordination Polymers or Copolymers

Other skills

- Measurements of sensorial signals
- Measurements of electromagnetic field
- Data acquisition systems
- Classical electronic devices and specialized circuits;
- Digital and analogue circuits.

ADDITIONAL
INFORMATION

Recent International grants

1. **Project ERANET 107/01.05.2019**, 2019-2021, title: Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources/Water Harmony (Director: Igor CRETESCU); 262150 lei (2019-2020)
2. **Project No. 576/2012**, Bilateral Romanian-Greek Scientific Cooperation, Solar Photocatalytic Oxidation and Decolorization of Dye Solutions in Aqueous Media (director, Lecturer: dr. Doina LUTIC-UAIC), Technical University of Iasi responsible: **Igor Cretescu**
3. **Grant (B.EN.A.) – Cosmote/2007**: Some Effects of High-Frequency Electromagnetic Radiations Used in Radio Communication toward the Cultivated Plants Growing, COSMOTE Grecia, prin B.EN.A. International, Director: **Igor Cretescu**
4. **Project No. Nr. 430/15.06.2010, Bilateral Grant Romania/Moldavia**, Sustainable Management of Anthropogenic Soils achieved by Monitoring and Remediation Technologies, director: Assoc. Prof. Dr. Iticescu Catalina, "Dunarea de Jos" University of Galati, Technical University of Iasi, coordinator: **Igor Cretescu**, 20010-2011
5. **Project 24/2007-2008 MCT-Romanian-Greek Scientific Cooperation Program**, tema: Synthesis of magnetic nanoporous materials applied in medical and environmental purposes, (director, prof. dr. Eveline POPOVICI-UAIC), Technical University of Iasi responsible: **Igor Cretescu**

Recent National grants

1. **Contract PN-II-IN-CI-2012-1-0094**, Treatment of industrial waste cooling liquid from machine tools, Director: **I. Cretescu**
2. **Contract PN-II- IDEI Cod 357, No.721/2009-2011**, New types of nanocomposite materials with applications in electronics and electrochemical sensors, Director: Doina Sibiescu, team member: **Igor Cretescu**
3. **Contract no. 26/2007-2008 CEEX** - Experimentation and improving biological technology operating on an intensive apple orchard mode, with a favorable impact on consumer health and the environment. Director: M. Diaconu, team member: **I. Cretescu**
4. **Contract CNCISIS Cod 1070, no. AI/ GR 164/ 2004-2006**, Membrane polymeric composites for separation and control technologies and equipments for food industry and environmental protection, Director: **I. Cretescu**
5. **Contract no. 3161P/05**, Chemical and physical determination for self-calcium lime paste product, Director: **I. Cretescu**

Bilateral/Academic mobility programs

Research Grant-Balkan Environmental Association –Technological Education Institute, Thessaloniki, Greece
Bilateral Romanian Greek Cooperation, The Aristotle University of Thessaloniki, Greece
Socrate- Erasmus Project – University of Warmia and Mazuria, Olsztyn, Poland
Socrate- Erasmus Project – Aristotle University of Thessaloniki, Greece
Socrate- Erasmus Project – University of Castilla La Mancha, Ciudad Real, Spain
Research Project: European Food Safety Network FP V, Polish Academy of Science, Olsztyn, Poland;
Research Project: Romanian- Moldavian Scientific Partnership, Technical University of Moldova, Chisinau, Moldova Republic.

Mutual collaborations

University of Veszprem, Institute of Environmental Engineering, Hungary
VINČA Institute of Nuclear Sciences, Department of Physical-Chemistry, Belgrade, Republic of Serbia;
Université de Sherbrooke, Department de Chimie, Sherbrooke (Québec), Canada;
University of Zürich, Institute of Physics, Switzerland.

Memberships

- Vice-president of Romanian Inventors Society;
- Member of Academic Organization of Environmental Engineering and Management;
- Member of BENA Balkan Environmental Association;
- Member of Romanian Radioprotection Society;
- Member of Chemistry Society of Romania;
- Member of Association of Graduates from Industrial Chemistry Faculty

Editorial board member

- ENVIRONMENTAL ENGINEERING and MANAGEMENT JOURNAL (EEMJ);
- JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY (JEPE);
- JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT (JEELM),
- COATINGS (MDPI, Switzerland)

- Scientific portfolio **236 Scientific Papers**
- 164 papers in peer reviewed and ISI Thomson Master List journals;
 - 32 papers in peer reviewed and journals indexed International Data Base;
 - 29 papers in other journals, recognized at the national level (by the scientific national authority :CNCSIS);
 - 11 papers in conference proceedings.
- 22 Awarded patents and patent demands**
- 20 awarded patents
 - 2 patent demands.
- 2041 citations (Scopus) from which 1882 citations are without self-citations**
- H-index of 21**
- Honours and awards **Scientific awards;**
- 2010 – Silver Medal** - Warning equipment based on acoustic and electromagnetic signal for the avoiding road and railway accidents, the 10th International Exhibition of Innovations and Investments, 7 September 10, 2010, Moscow.
- 2010 - Silver Medal** - The prevention of rail and road accidents, The Belgian and International Trade Fair for Technological Innovation, Eureka, 20 November 2010, Brussels.
- 2010 – Gold Medal** - Unconventional cooling system applied for solidification of alloys from the metalurgical proceses, the 6th International Exhibition of New Technologies (NEW TIME), 23 September 25, 2010, Sevastopol, Ukraine.
- 2009 – Gold Medal** - Procédé et installation d'échange ionique dans un champ magnetique, Salon International des Inventions Geneve, Swiss, April 2009.
- 2009 - Silver medal** - Device and method for ion exchange in magnetic field, International Warsaw Invention Show 2009, Warsaw, 3rd of June.
- 2009 - Cycle of Patents**, Special Prize awarded by the Society of Inventors in Ukraine, in the fourth salon specializing in inventions INFOINVENT, Kiev, Ukraine
- 2009 - Excellence Diploma**, INFOINVENT, the Ministry of Education, Technical University of Moldova, Republic of Moldova.
- 2009 - Excellence Diploma**, INFOINVENT, the Ministry of Education, Technical University of Moldova, Republic of Moldova.
- 2009 - Silver Medal**, Specialized International Exhibition - INFOINVENT 2009, 24-27 November, Chisinau, Republic of Moldova.
- 2009 - Excellence Diploma** - INFOINVENT 2009, Republic of Moldova, Ministry of Education, Technical University of Moldova.
- 2009 - Gold Medal**, The 5th International Exhibition New Time, Sevastopol, Ukraine, 24-26 - Electronic equipment based on acoustic and electromagnetic signal for the increasing the auto circulation safety.
- 2009 - Gold Medal**, The 5th International Exhibition New Time, Sevastopol, Ukraine, 24-26 September for Metalurgical method for obtaining a big revolution solid pieces, for developing of some imposed characteristics using the special alloys.
- 2008 - Silver Medal** - Device and Method for Ion Exchange in Magnetic Field, Silver Medal, TESLA FEST 2008- International Festival of Innovation, Knowledge and Inventiveness, for the invention, Novi Sad, Serbia, October, 2008.
- 2008 - Gold Medal**, obtained at the fourth Exhibition "New Time", Sevastopol, Ukraine for the invention: Device and Method for Ion Exchange in Magnetic Field.

- Organization of Scientific Events
1. The 7th International Conference Environmental Engineering and Management, "Integration Challenges for Sustainability", 18 – 21 September, 2013, Vienna, Austria, Website: <http://iceem07.iceem.eu/>
 2. The 6th International Conference Environmental Engineering and Management, "Green Future", 1 – 4 September, 2011, Lake Balaton, Hungary, Website: <http://www.iceem06.iceem.eu/index.html>
 3. International Symposium Control and Metrology of Environmental Quality Factors (IS.CMEQF- 01), November 23– 27, 2010, Iasi, Website: http://www.hidromed.ro/cmeqf_01.php
 4. The 5th International Conference on ENVIRONMENTAL ENGINEERING AND MANAGEMENT ICEEM/05, 15-19 September, 2009 Tulcea, Danube Delta – Romania Website: http://www.iceem06.iceem.eu/docs/past/ICEEM05_Program.pdf
 5. The XIV-th International Conference of Inventics, The XIV-th International Exhibition of Research, Innovation and Technological Transfer "INVENTICA 2010" June 9-11, 2010, Iasi, Romania, Website: <http://www.inventica.org.ro/inventica2010/>
 6. International Conference „Inventics – Performance and Technical Creativity”, XII-th Edition, Website: <http://www.inventica.org.ro/inventica2008/>

Prof. Dr. Igor CRETESCU

LISTA DE LUCRARI

Cărți și capitole în cărți publicate în ultimii 10

(Selectie din 2011-prezent)

1. **Cretescu I.**, Soreanu G. (2020). Optimizarea proceselor: aplicații în inginerie chimică și protecția mediului. Editura ECOZONE, Iasi.
2. Soreanu G., **Cretescu I.**, Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2020). A model microalga for addressing air treatment in spacecrafts. Chapter 19, in: From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Eds. Soreanu G. and Dumont E., **Elsevier**, 21 p.
3. **Cretescu I.**, Lutic D., Manea L.R., Electrochemical Sensors Technology, Electrochemical Sensors for Monitoring of Indoor and Outdoor Air Pollution, 2017, InTech London-Rijeka, Croatia
4. Poroch-Seritan M., Buculei A., Amariei S., Gutt G., Lazăr L., **Cretescu I.**, The content of heavy metals in packaging materials, an environmental issue and a food safety concerns, in Postęp w inżynierii bezpieczeństwa II, 2017, Wydawnictwo UWM Olsztyn, ISBN 978-83-8100-113-7, Olsztyn, Polonia
5. **Cretescu I.**, Kovács, Z. Cimpeanu S.M., Chapter 10: Monitoring of Surface Water Status in the Lower Danube Basin, River Basin Management, Edited by Daniel Bucur, ISBN 978-953-51-2604-1, InTech, 2016, 205-223
6. Antohi C.M., **Cretescu I.**, Sarbu C.G., Cucos I., Conachi P.A., Catalogul targului de inventii si idei practice INVENT-INVEST-2015, ECOZONE, Iasi, 2015
7. Lutic D., **Cretescu I.**, Chapter 2: TiO₂-based mesoporous materials for the efficient photo-degradation of rebel organic compounds in aqueous solutions, in *Current topics, concepts and research priorities in environmental chemistry (IV)*, Editura Universitatii "Al.I.Cuza" Iasi 2015
8. Lutic D., Simion V.A., **Cretescu I.**, Chapter 7: Improving the water management and protection of natural aquatic resources by using cost-effective advanced treatments of effluents based on Fenton reaction, in Current topics, concepts and research priorities in environmental chemistry (III) , Edited by Carmen Zaharia, "Alexandru Iona Cuza", Iasi, University Publishing House, 2014, ISBN: 978-606-714-062-0 (Vol. III), pp. 147-164, ISBN 978-973-703-797-8 (general)
9. Avadanei, V., **Cretescu, I.**, Procese membranare de separare, 145 pg., Ed. CERMI, Iasi, 2013, ISBN 978-973-667-434-1
10. **Cretescu, I.**, Soreanu, G., Optimizarea proceselor în inginerie chimică și protecția mediului, 202 pg, Ed. ECOZONE, Iasi, 2013, ISBN 978-973-7645-85-2
11. Cretescu, I., Soreanu, G., Tehnologii de achiziție, monitorizare și diagnoza a calitatii factorilor de mediu, 227 pg., Ed. ECOZONE, Iasi, 2013, ISBN 978-973-7645-92-0
12. **Cretescu I.** (2013). Culegere de probleme pentru optimizarea proceselor, PIM, 114 pg.
13. **Cretescu, I.**, Benchea, R.E., pp.173-192, Chapter 8: Advances of flow techniques for analysis of persistent pollutants from surface waters, in: *Current topics, concepts and research priorities in environmental chemistry (I)*, Editor: C.Zaharia, Ed. "Alexandru Ioan Cuza", Iasi, 2012, ISBN general: 978-973-703-797-8, ISBN volum: 978-973-703-798-5

Lucrări indexate ISI/BDI publicate în ultimii 10 ani

(Selectie din 2012-prezent)

1. Soreanu G., **Cretescu I.**, Diaconu M., Cojocaru C., Ignat M., Samoila P., Harabagiu V. Investigation of a biosystem based on *Arthrospira platensis* for air revitalisation in spacecrafts:

- Performance evaluation through response surface methodology. *Chemosphere* 264, Part 2, doi.org/10.1016/j.chemosphere.2020.128465, 2020.
2. Dinca P., Butoi B., Lungu M., Porosnicu C., Jepu I., Staicu C., Lungu C.P., Niculescu A., Burducea I., Trusca O., Diaconu M., **Cretescu I.**, Soreanu G. Antibacterial efficiency of stainless-steel grids coated with Cu-Ag by thermionic vacuum arc method. *Coatings* 10, 322; doi:10.3390/coatings10040322, 2020.
 3. Harja, M., Ciobanu, G., Juzsakova, T., **Cretescu, I.** New approaches in modeling and simulation of CO₂ absorption reactor by activated potassium carbonate solution. *Processes*, 2019.
 4. Ignat Maria, Samoila Petrisor, Cojocaru Corneliu, Soreanu Gabriela, **Cretescu Igor**, Harabagiu Valeria. Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification. *Applied Surface Science* 487: 1189-1197, 2019.
 5. Corneliu S. Stan, Gabriela Soreanu, Marcel Popa, Petronela Horlescu, Tudor Lupascu, **Igor Cretescu**. A new approach to obtain aerogels for gas safety applications. *Environmental Engineering and Management Journal* 18(8): 1721-1726, 2019.
 6. Dragoi E. N., Kovács Z., Juzsakova T., **Cretescu I.**, Environmental Assessment of Surface Waters Based on Monitoring Data And Neuro-Evolutive Modelling, *Process Safety and Environmental Protection*, 120, 2018
 7. Cotillas S., Sáez C., Cañizares P., **Cretescu I.**, Rodrigo M. A., Removal of 2,4-D herbicide in soils using a combined process based on washing and adsorption electrochemically assisted, *Separation and Purification Technology*; <https://doi.org/10.1016/j.seppur.>, 2017.
 8. Badea Nica D., Dumitru M.G., **Cretescu I.**, Monitoring of mercury content in the main environmental components caused by lignite combustion in large thermal Power Plants, *Materiale Plastice* 54(4), 781-784, 2017.
 9. Cojocaru C., Cocarta D.M., Istrate I.A., **Cretescu I.**, Graphical methodology of global pollution index for the environmental impact assessment using two environmental components, *Sustainability*, 9(4) (doi:10.3390/su9040593), 13p, 2017.
 10. Buckus R., Strukčinskienė B., Raistenskis J., Stukas R., Šidlauskienė A., Čerkauskienė R., Isopescu DN., Stabryla J., **Cretescu I.**, A technical approach to the evaluation of radiofrequency radiation emissions from mobile telephony base stations, *Int J Environ Res Public Health*, 14(3), (doi: 10.3390/ijerph14030244.), 18p, 2017.
 11. Balan A., Obolewski K., Luca M., **Cretescu I.**, Use of macroinvertebrates for assessment of restoration works influence on the habitat in floodplain lakes, *Environmental Engineering and Management Journal*, 16(4), 969-978, 2017.
 12. Lutic D., Coromelci C.G., Juzsakova T., **Cretescu I.**, New mesoporous titanium oxide-based photoactive materials for the removal of dyes from wastewaters, *Environmental Engineering and Management Journal*, 16(4), 801-807, 2017.
 13. **Cretescu I.**, Lupascu T., Buciscanu I., Balau-Mindru T., Soreanu G., Low-cost sorbents for the removal of acid dyes from aqueous solutions, *Process Safety and Environmental Protection*, 108, 57-66, 2017.
 14. Buckus R., Baltrenas P., Skeivalas J., Grubliauskas R., **Cretescu I.**, Mobile phones electromagnetic field radiation research and analysis of its dispersion by applying MATLAB7 software, *Environmental Engineering and Management Journal*, 16(5), 1177-1184, 2017.
 15. Kotova O.B., Harja M., **Cretescu I.**, Noli F., Pelovski Y., Shushkov D.A., Zeolites in Technologies of Pollution Prevention and Remediation of Aquatic Systems, *Vestnik IG Komi SC UB RAS*, nr. 5, 49-53, 2017.
 16. Shchemelinina T.N., Kotova O.B., Harja M., Anchugova E.M., Pelovski Y., **Cretescu I.**, New Trends in the Mechanisms of Increasing Productivity of Mineral-Based Materials, *Vestnik IG Komi SC UB RAS*, nr. 6, 40-42, 2017
 17. Buciscanu I., Maier S.S., **Cretescu I.**, Potential Use of Wool Waste as Adsorbent for the Removal of Acid Dyes from Wastewater, *Annals of the University of Oradea, Fascicle of Textiles, Leatherwork* XVII, Nr.2, 23-28, 2016.

18. Cojocaru P., Gusiatin Z. M., **Cretescu I.**, Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (*Brassica napus*), *Environmental Science and Pollution Research*, 23(11), 10693-1070, 2016.
19. Isopescu D.N., Sluser B. M., Noli F., Buckus R., **Cretescu I.**, Monitoring of Radioactivity Level in Autoclaved Aerated Concrete Produced in Romania and Risk Assessment, *Environmental Engineering and Management Journal*, 15 (4), 935-943, 2016.
20. Smoczynski L., Ratnaweera H., Kosobucka M., Smoczynski M., Pieczulis-Smoczynska K., **Cretescu I.**, Size of Aggregates Formed during Coagulation and Electrocoagulation of Synthetic Wastewater, *Journal of Environmental Protection and Ecology*, 17(3), 1160-1170, 2016.
21. Deletze E., Antoniadis A., Kitsiou V., Kostopoulou E, Lutic D., **Cretescu I.**, Poulios, I., Photocatalytic treatment of colored wastewater from medical laboratories: Photodegradation of Nuclear Fast Red, *Desalination and Water Treatment*, 57(40), 18897-18905, 2016.
22. Lutic D., **Cretescu I.**, Optimization study of Rhodamine 6G removal from aqueous solutions by photocatalytic oxidation, *Revista de Chimie*, 67(1), 134-138, 2016.
23. Lutic D., Petrovski D., Ignat M., Cretescu I., Bulai G., Mesoporous cerium-doped titania for the photocatalytic removal of persistent dyes, *Catalysis Today*, <http://dx.doi.org/10.1016/j.cattod.2016.12.018>, 2016
24. Cohl M., Lazar L., **Cretescu I.**, Balasanian I., Trihalomethanes issues drinking water after chlorination treatment, *Revista de Chimie*, 66(9), 1282-1287, 2015
25. Raschitor A, Soreanu G., Fernandez-Marchante C.M., Lobato J., Cañizares P., **Cretescu I.**, Rodrigo M.A., Bioelectro-Claus processes using MFC technology: Influence of co-substrate, *Bioresource Technology*, 189, 94-98, 2015.
26. **Cretescu I.**, Soreanu G., Harja M., A low-cost sorbent for removal of copper ions from wastewaters based on sawdust/fly ash mixture, *International Journal of Environmental Science and Technology*, 12(6), 1799-1810, 2015.
27. Poroč-Seritan M., **Cretescu I.**, Cojocaru I., Amariei S., Suciu C., Experimental design for modelling and multi-response optimization of Fe–Ni electroplating process, *Chemical Engineering Research and Design*, 96, 138-149, 2015.
28. Simion, V.-A., **Cretescu, I.**, Lutic, D., Luca, C., Poulios, I., Enhancing the fenton process by UV light applied in textile wastewater treatment, *Environmental Engineering and Management Journal*, 14(3), 595-600, 2015.
29. Stefanache A., Dughilă A., Iancu O.G., **Crețescu I.**, Stan C.D, Hydrogeological study of natural sulphurous components from the Nicolina area of Iași municipality used in therapeutic procedures, *Journal for Environmental Protection and Ecology*, vol.16(4), 1543-1552, 2015.
30. Samoila P., Cojocaru C., **Cretescu I.**, Stan C.D., Nica V., Sacarescu L., Harabagiu V., Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution, *Journal of Nanomaterials*. (<http://dx.doi.org/10.1155/2015/713802>) Article ID 713802, 13 pages, 2015.
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