

**Curriculum vitae
Europass****Informatii personale**

Prenume / Nume	Igor CRETESCU		
Adresa	Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului, Blvd. D. Mangeron 73, Iasi, 700050, Romania		
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Nationalitate	Romana		
Data nasterii	21.03.1964		
Gen	Masculin		

Experienta profesionala

Perioada	Din 2013-prezent
Pozitia ocupata	Profesor universitar
Denumirea cursurilor/aplicatiilor	Monitorizarea Mediului Optimizarea Proceselor Tehnologice Tehnologii de Achizitie, Monitorizare si Diagnoza a Calitatii Mediului Surse de Radiatii si Tehnologii de Protectie
Denumirea angajatorului	Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" Iasi, Romania
Sectorul de activitate	Educatie si Cercetare
Perioada	Din 2001-2013
Pozitia ocupata	Conferentiar universitar
Denumirea cursurilor/aplicatiilor	Senzori cu Aplicatii in Monitorizarea Mediului Optimizarea si Modelarea Proceselor Chimice si de Mediu Radiochimie, Surse de Radiatii si Tehnologii de Protectie
Denumirea angajatorului	Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" Iasi, Romania
Sectorul de activitate	Educatie si Cercetare
Perioada	Din 1997-2001
Pozitia ocupata	Sef lucrari universitar
Denumirea cursurilor/aplicatiilor	Senzori cu Aplicatii in Monitorizarea Mediului Tehnologii de Tratare si Valorificare a Deseurilor si Subproduselor Optimizarea si Modelarea Proceselor Chimice si de Mediu Radio/Electro-Chimie
Denumirea angajatorului	Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" Iasi, Romania
Sectorul de activitate	Educatie si Cercetare
Perioada	Din 1990-1997
Pozitia ocupata	Asistent universitar
Denumirea cursurilor/aplicatiilor	Bazele Tehnologiei Chimice Optimizarea Proceselor Chimice Metode Electro-Analitice pentru Analize Radio/Electro-Chimie Tehnologii de Protectie a Atmosferei
Denumirea angajatorului	Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" Iasi, Romania
Sectorul de activitate	Educatie si Cercetare
Perioada	Din 1989-1990
Pozitia ocupata	Inginer de cercetare
Activitati principale si responsabilitati	Exploatarea Tehnologica a Statiei Pilot de Electrosinteza a Sarurilor de tip Persulfat si dimerizare Kolbe a Acizilor Dicarboxilici
Denumirea angajatorului	Centrul de Cercetare pentru Fibre Sintetice, Savinesti, Romania

Educatie	
Perioada	Din Februarie 2005 - Septembrie 2005
Calificare /diploma	Studii aprofundate postuniversitare (MSc): Utilizarea izotopilor radioactivi
Departament	Fizica Atomica si Nucleara
Denumirea organizatiei	Facultatea de Fizica, Universitatea din Bucuresti, str. Atomistilor nr.405, 077125, Platforma de Fizica Magurele, Romania
Perioada	Din Noiembrie 1990 - Decembrie 1999
Calificare/diploma	Doctor in Inginerie Chimica
Teza de doctorat	Contributii la investigarea si optimizarea proceselor de electrod aplicate in electrosinteza N,N-dimetil-p-fenilen diaminei si epurarea electrochimica a apelor uzate rezultate, 217 p, 1999
Denumirea organizatiei	Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Chimie Industriala, Blvd. D. Mangeron 73, Iasi, 700050, Romania
Perioada	Din Septembrie 1984 – Iulie 1989
Calificare /diploma	Inginer chimist, specializarea Tehnologie Chimica Organica
Denumirea organizatiei	Institutul Politehnic din Iasi, Facultatea de Chimie Industriala, Blvd. D. Mangeron 73, Iasi, 700050, Romania
Stagii de Cercetare	2002– Stagiul de Cercetare Postdoctoral: Materiale membranare pentru electrozi ioni-selectivi, Academia de Stiinta a Poloniei, Polonia; 2000 – Stagiul de Cercetare: Materiale de electrod pentru epurarea electrochimica a apelor uzate cu continut organic, Universitatea din Sherbrooke, Canada; 1997– Stagiul de Specializare: Senzori si sisteme achizitie de date, Facultatea de Microelectronica si Calculatoare, Universitatea Tehnica a Moldovei. Chisinau, Republica Moldova; 1996 – Stagiul de Specializare: Investigarea proceselor electrochimice organice, Universitatea de Stat "M.V. Lomonosov", Moscova, Rusia; 1996 – Stagiul de Specializare: Tehnologii de electrosinteza organica si epurare electrochimica a apelor uzate, Universitatea de Tehnologie Chimica "M.D. Mendeleev", Moscova, Rusia; 1995 – Stagiul de Specializare: Senzori semiconductori, Universitatea de Cercetari Nucleare, Institutul de Inginerie Fizica, Moscova, Rusia
Domenii de Cercetare	Tratarea/epurarea fluxurilor lichide si gazoase Valorificarea si reciclarea deseurilor prin metode conventionale/neconventionale Senzori si traductoare cu aplicati in controlul calitatii mediului si a produselor Elaborarea (sinteza) si caracterizarea unor noi materiale: 1. Membrane: permeabilitate, selectivitate, proprietati electrice si mecanice, etc.;; 2. Sorbentii: zeoliti, argile, composite, fibre, etc. Sinteza unor noi compusi pentru aplicatii senzoriale: 1. Liganzi organici compatibili cu matricile polimerice ale membranelor senzoriale, capabili sa complexeze ionii metalici; 2. Sinteza unor polimeri/copolimeri cu grupari functionale cu capacitate de coordonare
Portofoliu Stiintific	195 Lucrari Stiintifice - 123 lucrari in reviste peer review si ISI Thomson Master List; - 32 lucrari in reviste peer reviewed si indexate in BDI (Baze de Date Internationale); - 29 lucrari in alte reviste, recunoscute la nivel national (de catre autoritatea nationala de cercetare stiintifica: CNCIS); - 11 lucrari in volumele conferintelor (conference proceedings). Carti si capitole de carti: 12 22 Brevete si cereri de brevete - 20 brevete - 2 cereri de brevet. 1137 citari (Scopus) din care 960 sunt fara auto-citare H-index = 15
Colaborari Internationale	
Proiecte Internationale	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.
Colaborari Mutuale	University of Veszprem, Institute of Environmental Engineering, Hungary VINÇA 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.

Aptitudini si competente profesionale											
Limba materna	Romana										
Limbi straine											
Self-evaluation	Intelegere				Vorbire				Sciere		
European level (*)	Ascultare		Citire		Participare conversatie		Ascultare		Writing		
Franceza	C1	Proficient User	C2	Proficient User	C1	Proficient User	C2	Proficient User	C1	Proficient User	
Engleza	C1	Proficient User	C2	Proficient User	C1	Proficient User	C2	Proficient User	C2	Proficient User	
Rusa	B1	Proficient User	B2	Proficient User	B2	Proficient User	B1	Proficient User	B1	Proficient User	
	(*) Level of the European Framework of Reference for languages										
Competente socio-profesionale	<ul style="list-style-type: none"> - autodidact in probleme educationale si metodică predării disciplinelor de specialitate, activitati de cercetare si publicare, colaborari la nivel national si international; - interactiuni facile si multiple intre mediul academic si cel industrial; - promovarea inovării si activitatilor inventive la nivelul mediului social, academic si industrial 										
Competente organizationale (manageriale)	<ul style="list-style-type: none"> - Director Departament Ingineria si Magamentul Mediului, 2012-2016; (Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" din Iasi) - Director Adjunct Departament Ingineria si Magamentul Mediului, 2008-2012; (Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" din Iasi) - Membru in Consiliul Departamentului IMM si Consiliul Facultatii (FICPM), din 2008; (Facultatea de Inginerie Chimica si Protectia Mediului, Universitatea Tehnica "Gheorghe Asachi" din Iasi) <p>Organizare de evenimente stiintifice: Saloane de Expozitii si Inventica cum ar fi INVENTICA Iasi, INVENTIKA Bucharest, INVENT-INVEST Conferinte Internationale:</p> <ol style="list-style-type: none"> 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 Edition Website: http://www.inventica.org.ro/inventica2008/ <p>Coordonarea stiintifica a studentilor: - coordonare de lucrari de licenta si dizertatie - mentor doctoranzi - indrumator an de studii master (program in limba engleza/limba romana)</p>										
Competente tehnice	<ul style="list-style-type: none"> - Programarea experimentelor in vederea modelării si optimizării proceselor; - Metode de prelevare a probelor (aer, apa, sol) in vederea evaluarilor de mediu; - Analiza poluantilor chimici si radioactivi in vederea monitorizării calitatii mediului; - Tehnici de monitorizare si diagnoza a mediului prin procesarea datelor si a imaginilor; - Ingineria proceselor 										
Competente si abilitati de utilizare a calculatorului	<ul style="list-style-type: none"> - PC software/ hardware; - Windows Operating Systems (98, 2000 Pro., XP Pro, Windows 7, 10); - Windows Networking; - Linux (Basic installation and system management); - Scientific Programming in Quick BASIC and Turbo Pascal; - Proiectarea si administrarea paginilor de web; - Procesarea textelor si imaginilor: Microsoft Office (Word, PowerPoint), PhotoImpact, ChemDraw, Adobe - Photoshop, etc.; - Folosirea unor programe precum: MathCAD, Visio, Lab Windows, Corel, Microsoft Excel, SigmaPlot, etc. 										
Alte competente	<ul style="list-style-type: none"> - Masurarea semnalelor senzoriale - Masurarea campurilor electrice si magnetice - Sisteme de achizitie de date - Echipamente electronice clasice si circuite specializate; - Circuite digitale si analogice. 										
Referent stiintific pentru reviste	ENVIRONMENTAL ENGINEERING and MANAGEMENT JOURNAL (EEMJ); JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY (JEPE); JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT (JEELM), REVISTA DE CHIMIE (Bucharest).										

<p>Alte informatii relevante</p>	<p>Premii si medalii stiintifice:</p> <p>- nationale</p> <ol style="list-style-type: none"> 1. 2010 - Excellence Diploma, Regional Salon of Research, September 2010, Bacau. 2. 2009 - Excellence Diploma, Research Exhibition 2009, Regional Chamber of Commerce and Industry Bacau. 3. 2009 - Excellence Diploma, Regional Research Exhibition, Bacau, Romania. <p>- internationale</p> <ol style="list-style-type: none"> 1. 2010 - Gold Medal, The eighth edition of International Exhibition of research, innovation and invention PRO INVENT 2010, March 16 to 19, Cluj Napoca, Romania 2. 2010 - Silver Medal - Warning equipment based on acoustic and electromagnetic signal for the avoiding road and railway accidents, the 10 th International Exhibition of Innovations and Investments, 7 September 10, 2010, Moscow. 3. 2010 - Silver Medal - The prevention of rail and road accidents, The Belgian and International Trade Fair for Technological Innovation, Eureka, 20 November 2010, Brussels. 4. 2010 - Silver Medal - Warning equipment based on acoustic and electromagnetic signal for the avoiding road and railway accidents, the 14th edition of International Exhibition of Inventions, Scientific Research and New Technologies, "INVENTIKA", 6 October 9, 2010, Bucharest 5. 2010 - Silver Medal the 14th edition of International Exhibition of Inventions, Scientific Research and New Technologies, "INVENTIKA", 6 October 9, 2010, Bucharest 6. 2010 - Gold Medal - Unconventional cooling system applied for solidification of alloys from the metalurgical proceses, the 6 th International Exhibition of New Technologies (NEW TIME), 23 September 25, 2010, Sevastopol, Ukraine. 7. 2010 - Gold Medal, European Exhibition of Creativity and Innovation, "EURO INVENT", 9 may 2010, Iasi, Romania. 8. 2010 - Gold Medal of the Institute of Macromolecular Chemistry P. Poni Iasi, for inventions presented at the International Inventions Fair "INVENT INVEST 2010", November 2010, Iasi, Romania. 9. 2010 - Gold Medal, International Exhibition of Inventions "INVENT INVEST 2010", November 2010, Iasi, Romania. 10. 2010 - Silver Medal, The eighth edition of International Exhibition of Inventions PRO INVENT 2010, Cluj Napoca, Romania. 11. 2010 - Excellence Diploma given by the Ministry of Education and Youth of Moldova, Technical University of Moldova, Cluj Napoca 2010, Romania. 12. 2009 - Gold Medal - Procédé et installation d'échange ionique dans un champ magnetique, Salon International des Inventions Geneve, Swiss, April 2009. 13. 2009 - Gold Medal, The 13th edition of International Exhibition of Inventions, Scientific Research and New Technologies - INVENTIKA, 28-31 October, 2009, Bucharest, Romania. 14. 2009 - Gold Medal - The VII edition of the International Exhibition of Research, Innovation and Invention - PROINVENT 2009, Cluj Napoca, Romania. 15. 2009 - Silver medal - Device and method for ion exchange in magnetic field, International Warsaw Invention Show 2009, Warsaw, 3rd of June. 16. 2009 - Silver Medal, The 13th edition of International Exhibition of Inventions, Scientific Research and New Technologies - INVENTIKA - 2009, ROMEXPO, 28-31 October, Bucharest. 17. 2009 - Cycle of Patents, Special Prize awarded by the Society of Inventors in Ukraine, in the fourth salon specializing in inventions INFOINVENT, Kiev, Ukraine. 18. 2009 - Excellence Diploma, INFOINVENT, the Ministry of Education, Technical University of Moldova, Republic of Moldova. 19. 2009 - Constantinescu Gogu scientific rank of Commander for outstanding results achieved in scientific research, invention promotion, and international recognition for its contribution to the Romanian creativity, Romania Inventors Society, No. 146/25 March 2009, Cluj. 20. 2009 - Excellence Diploma, INFOINVENT, the Ministry of Education, Technical University of Moldova, Republic of Moldova. 21. 2009 - Gold Medal, The 13th International Salon of Research, Innovation and Technological Transfer - Inventica 2009, 4-6 June, Iasi, Romania. 22. 2009 - Silver Medal, Specialized International Exhibition - INFOINVENT 2009, 24-27 November, Chisinau, Republic of Moldova. 23. 2009 - Excellence Diploma - Infoinvent 2009, Republic of Moldova, Ministry of Education, Technical University of Moldova. 24. 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. 25. 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. 26. 2008 - Gold Medal, The 12th International Exhibition of Inventions and New Technologies - INVENTIKA, 7 October 11, 2008, Bucharest, Romania. 27. 2008 - Gold Medal - Device and method for passive cleanup of ground waters polluted by oil spills, The XII-th International Exhibition of Inventions and New Technologies - INVENTIKA, 7 October 11, 2008, Bucharest, Romania. 28. 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. 29. 2008 - Gold Medal, obtained at the fourth Exhibition "New Time", Sevastopol, Ukraine for the invention: Device and Method for Ion Exchange in Magnetic Field. 30. 2008 - Gold Medal, obtained at the 12th Salon INVENTICA 2008 - "Inventics - Performance and Technical Creativity" for the invention "Electroreactor designed for advanced treatment of organic wastewater", May, Iasi. 31. 2007 - Eureka Award - achieved from Ecole de Brussele "Selovi" a.s.b.l., The third Exhibition "New Time", Sevastopol, Ukraine. 32. 2007 - Excellence Diploma - International Specialized Exhibition - INFOINVENT, Chisinau, Republic of Moldova. 33. 2007 - County Council Award, Iasi - International Exhibition of Inventions, Scientific Research and Technology Transfer, XIII edition, ECOINVENT, Iasi, Romania. 34. 2005 - Silver Medal: ECOINVENT 2005- International Exhibition of Environmental Patents, IASI, ROMANIA; 35. 2004 - Gold Medal: for the patent <i>Installation for electro-transformation of organic compounds from industrial wastewaters</i>, International Exhibition of Patents, Moscow, Russia; 36. 2004 - Special Award: News Genius-Europe International Exhibition of Inventions, Works of Fine and Applied Arts 1-4 May 2004 Budapest, Hungary; 37. 2003- Bronze Medal: Eureka- Salon Mondial de l'Innovation de la Recherche et des Nouvelles Technologies, Brussels, Belgium; 38. 2003 - Gold Medal: "Ecoinvent" International Exhibition of Environmental Patents, IASI, ROMANIA; 39. 1998 - Honor Diploma of the Best Inventors: The Agency for Protection of Industrial Propriety, Republic of Moldova; 40. 1997- Award for Young Chemist: <i>Technological Aspects of Organic Electrosynthesis</i>, International Concours for Young Chemists under auspicious of the Chemical Society of Japan, Kurashiki, Japan.
<p>Membru al organizatiilor profesionale</p>	<ul style="list-style-type: none"> - Vice-presedinte al Societatii Inventatorilor din Romania; - Membru al Organizatiei Academice de Ingineria Mediului si Dezvoltare Durabila; - Membru al Asociatiei Balcanice de Mediu BENA (Balkan Environmental Association, Grecia); - Membru al Societatii Romane de Radioprotectie; - Membru al Societatii de Chimie din Romania; - Membru al Asociatiei Absolventilor Facultatii de Chimie Industriala.

Lista de granturi si contracte de cercetare (selectie)	Lista de granturi si contracte de cercetare cu aplicatii in domeniul stiintei si ingineriei mediului:
Data	Septembrie 2017 Prof.dr.ing. Igor CRETESCU 