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|---|---|---|---|
| **Europass**<br>Curriculum Vitae | | | |
| | | | |
| **Personal information** | | | |
| Surname(s) / First name(s) | **Ioana / ION** | | |
| Address(es) | 1 Fizicienilor Street .G2-2007, Magurele, Ilfov, ROMANIA | | |
| Telephone(s) | 0040-21-346.82.97 | Mobile | 0040-7 |
| Fax(es) | 0040-21-346.82.99 | | |
| E-mail | ionioanamitu@icpe-ca.ro, ionioanamitu@yahoo.com, carbonsci@yahoo.com | | |
| Nationality | Romanian | | |
| Date of birth | 03/06/1973 | | |
| Gender | female | | |
| | | | |
| **Desired employment / Occupational field** | **Carbon Materials /Composite Materials/Renewable Materials / Materials Science** | | |
| | | | |
| **Work experience** | | | |
| Dates | **2001 - Present** | | |
| Occupation or position held | 2010 – present , Senior Researcher Grade III | | |
| Main activities and responsibilities | Research in the field of Advanced Composite Carbon Materials with Renewable, Ecological Sources & Composite materials Systems – carbon/polymer, metal/carbon, ceramic/carbon. | | |
| Name and address of employer | **National Institute for Research and Development in Electrical Engineering INCDIE ICPE-CA, Romania**<br>**Carbon Materials Laboratory** | | |
| Type of business or sector | Research & Development | | |
| | | | |
| Dates | 2002 - 2006 | | |
| Occupation or position held | Young Researcher Grade | | |
| Main activities and responsibilities | ○ Research in the field of Advanced Composite Carbon Materials with Renewable, Ecological Sources & Composite materials Systems – carbon/polymer, metal/carbon, ceramic/carbon.<br>○ Characterization of studied materials by diffractive method (SANS, XRD), optical method (OM, EM), mechanical and electrical testing.<br>○ Application of the SANS technique characterization on carbon materials and carbon composite materials – data treatment and data analysis using dedicated programs (Origin, ROOT, GNU/Linux C, C++ ).<br>○ Anticorrosion coating by electrolysis process | | |
| Name and address of employer | **Joint Institute for Nuclear Research Dubna, Russia.**<br>**Frank Laboratory of Neutron Research,**<br>**SANS Group.** | | |
| Type of business or sector | Education& Research & Development | | |
| **Education and training** | | | |

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| Dates | 1992-1998 |
| Title of qualification awarded | **University degree** ; specialization: Petrochemistry and Carbochemistry<br>Title : engineering |
| Name and type of organisation providing education and training | **Polytechnic University of Bucharest, Chemistry Faculty** |
| Principal subjects/occupational skills covered | Chemical Engineering |
| | |
| Dates | 1998 – 1999 |
| Title of qualification awarded | **Master degree** ; specialization: Advanced Separation and Purification in Engineering Chemistry (two semesters)<br>Title:Activated carbon |
| Name and type of organisation providing education and training | **Polytechnic University of Bucharest, Chemistry Faculty and Materials Engineering Science.** |
| Principal subjects/occupational skills covered | Chemical Engineering |
| | |
| Dates | 1998 - 2009 |
| Title of qualification awarded | **PhD** |
| Principal subjects/occupational skills covered | Engineering Science, Carbonic Technology and Pyrogene Process |
| Name and type of organisation providing education and training | **Polytechnic University of Bucharest, Chemistry Faculty and Materials Engineering Science.** |
| | |
| Dates | 2010-2012 (present**)** |
| Title of qualification awarded | **Master degree ;** specialization: Nanosciences&Alternative Energy Sources(four semesters)<br>Second years |
| Principal subjects/occupational skills covered | Materials Chemical Engineering |
| Name and type of organisation providing education and training | **University of Bucharest, Physic Faculty**<br>**Nanosciences&Alternative Energy Sources (3Nano-SAE) Res Center**<br>**Bucharest-Magurele MG-38** |
| | |
| **Personal Skills & Competences** | |
| Mother tongue(s) | Romanian |
| Other language(s) | **English/Russian** |

| Self-assessment | **Understanding** | | | | **Speaking** | | | | **Writing** | |
|---|---|---|---|---|---|---|---|---|---|---|
| *European level (*)* | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| (*) Common European Framework of Reference for Languages | C2 | High experience | C2 | High experience | C2 | High experience | C2 | High experience | C2 | High experience |
| | C2 | High experience | C2 | High experience | C2 | High experience | C2 | High experience | C1 | medium |

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| | |
| Social skills and competences | ✓ Spirit of teamwork.<br>✓ Capacity to adjust to any situation, resulting from previous work experience abroad.<br>✓ Good communication skills, resulting from teaching experience. |
| Organizational skills and competences | ✓ Management experience by managing different research teams in the national (two grants) and international research projects (two). |
| Technical skills and competences | ✓ Senior Researcher.<br>✓ Research in the field of Advanced Composite Carbonic Materials with Renewable, Ecological Sources & Composite materials Systems – carbon/polymer, metal/carbon, ceramic/carbon.with Ecological Sources &Composite materials Systems |
| Computer skills and competences | Origin, ROOT, GNU/Linux C, C++ |
| Other skills and competences / Other International Trainings and Fellowships | Participants of the treeing school with Europeans Grants in the field of Condensed Maters and diffractive techniques<br>***1.*** Summer School of Young Scientists in Neutron Science- 2-7 June 2002, Baia Mare Romania.<br>***2.*** Central European Neutron Scattering School, 7-11 April 2003, Budapest, Hungary.<br>***3.*** VII-Conference for Young Scientists and Specialists, 3-7 February-2003, Dubna, Russia.<br>***4.*** VIII-Conference for Young Scientists and Specialists, 2-6 February 2004, Dubna, Russia.<br>***5.*** XV International School on Physics and Chemistry of Condensed Mater-Structural Aspect of Solids, 1-10 July 2004, Bialoweza, Poland.<br>***6.*** IX-Conference for Young Scientists and Specialists, 31-3 February -2005, Dubna, Russia.<br>***7.*** The 3rd Central European Training School on Neutron Scattering and COST Training School on Neutron Optics 18-23 April, 2005, Budapest, Hungary.<br>***8.*** 4th PSI Summer School on Condensed Matter Research Spectroscopy, Microscopy, August 14-21, 2005. Lyceum Alpinum Zuoz Switzerland.<br>***9.*** X Conference for Young Scientists and Specialists Dubna, JINR, 30-4 February 2006.<br>***10.*** 5th PSI Summer School on Condensed Matter Research, Neutron, X-ray and Muon Studies of Nano Scale Structures August 19-26, 2006. Lyceum Alpinum Zuoz Switzerland<br>***11.*** Al 2-lea Seminar IUCN-Romania, Fizica neutronilor in studiul nucleelor, a starii condensate si a stiintelor vietii, 11 – 16 septembrie 2007 la Baia Mare |
| | |
| **Additional informations** | 100 participation with posters and oral presentation at national and international conferences during the 10 years experience on work (six in Romania at INCDIE ICPE-CA and four at JIRN Dubna Russia). |
| | **ONE BOOK:** COMPOZITE BIODEGRADABILE CU APLICATII IN REALIZAREA AMENAJARILOR INTERIOARE ALE AUTOMOBILELOR" Editura Printech ISBN 978-606-521-390-6 / 2009.<br>**ONE PATENT**: *Cerere brevet OSIM A/00901/18.11.2008* PROCEDEU TEHNOLOGIC, ECOLOGIC, ECONOMIC SI EFICIENT DE OBTINERE A GRAFITULUI DENS PRIN IMPREGNAREA CU PIROCARBON |

***Articles published in the national and international journals indexed in the international data based***

1. Pasuk I., C. Banciu, A.M. Bondar, G.A. Rimbu, **I. Ion**, I. Stamatin, I. Morjan, I. Voicu, I. Sandu. Influence of some carbon nanostructures on the mesophase pitch development - a structural study. Romanian Reports in Physics 2004, 56, (3), 320-327.
2. **Ion I.** , C. Banciu, F. Barca, A-M Bondar, Y. Kovalev, A. Kuklin, I. Pasuk. The effects of single and multiwall nanotubes on the coal tar pitch phase transformations. Poverhnost. Rentgenoskie, Sinhrotronnyie I Neitronnye Issledovaniya. 2006; 6:84-88.
3. **Ion I.,** A.M. Bondar Y. Kovalev, C. Banciu. Structural Studies of Carbon Materials by SANS-Technique. Romanian Journal of Physics, 2006; 51(7-8):791-792.
4. **Ion I**., Kappel W., N. Stancu, M. Dumitrache, S. Hodorogea. *Anticorrosive protection for sintered NdFeB magnets.* Revista romana de materiale 2008, 38(2): 123-129.

***Annual Report of International Neutron Centers***

- Ion I, et al. SANS study of structural change of the coal tar pitch additivated with nanocarbon under heat treatment. Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research. Annual Report 2003, P3, 2003.
- Ion I., et al. Structural analysis of Carbon Nanocomposite Materials by Small Angle Neutron Scattering. Annual report 2005. BNC Budapesta Hungary.

## *ISI Articles*

1**. I. Ion**, A. M. Bondar, Yu. Kovalev, C. Banciu, I. Pasuk. Modification of the structural parameters of coal tar pitch induced by addition of nanocarbon-coated iron at primary carbonization. Journal of Optoelectronics and Advanced Materials; 8(2):624-630, 2006.

2**. I. Ion,** C.M. Mitu, Y Kovalev. Nanocarbon Coated Iron/Carbon Composite Materials for Electromagnetic Interference Applications. Rev. Roum. Sci. Techn.– Électrotechn. et Énerg., Bucharest, 53( 2):55-64, 2008.

3. Kappel. W., Stancu N., **Ion I**., Cios M., Cios A., Kirilov A., Kutuzov S., Smirnov A., Kovalev. Y., Kuklin A. Rev. Roum. Sci. Techn.– Électrotechn. et Énerg., 2008, 53(2):79-84

4. **I. Ion,** C.M. Mitu, A. Bara, Yu. Kovalev, Structural modifications induced on the coal tar pitch by addition of nanotubes and nanofibers. Journal of Optoelectronics and Advanced Materials, 10(11):3141, 2008.

5. C. Banciu, A. Bara, **I. Ion,** A-M. Bondar, R. Mirea, G. Stoian, E. Patroi. . Journal of Optoelectronics and Advanced Materials, 10(12):3233-3236, 2008.

6. C. BANCIU, A. BĂRA**, I. ION**, D. PĂTROI, G. SBÂRCEA Structural and functional properties of porous carbon. OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS Vol. 4, No. 11, November 2010, p. 1647 – 1650.

7. C. BANCIU, A. BĂRA, **I. ION**, D. PĂTROI, L. LEONAT. Chemical activation of mesocarbon microbeads fibers composites OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS Vol. 4, No. 11, November 2010, p. 1717 – 1720

**FULL LIST OF THE SCIENTIFIC ACTIVITY**

Experienta acumulata in alte proiecte internationale si nationale

| **Project** | **Function** | **Period** |
|---|---|---|
| Centrul de Excelenta Materiale Electrotehnice, RELANSIN, subprogramul 9 (contract 1336/2001) | participant | 2001 - 2004 |
| Grant 7050 GR (6605/2001) – "Sisteme compozite avansate de tip mezofaza carbonica – nanopulberi de fier" | participant | 2001 - 2002 |
| Grant: 7050 GR 96605 / 2001)-COMPOZITE AVASNSATE PE BAZA DE MESOFAZA CARBONICA ADITICATA CU NANO-PULBERI DE FIER | participant | 2002-2002 |
| Proiect NATO SfP 974214:- "MATERIALE COMPOZITE CARBON/ CERAMICA CU APLICATIIIN INDUSTRIA ELECTROTEHNICA". | participant | 2000-2003 |
| Grant pt. tineret : 6098 GR (6602 / 2000)-MATERIALE AVANSATE IN SISTEM BIFAZIC DE TIP ALIAJ CARBON-CERAMICA | participant | 2000-2002 |
| Grant 687:TRANSFORMARI DE FAZA IN SISTEMUL MEZOFAZA CARBONICA CU MICRO SI NANO PULBERI | **director** | 2002-2003 |
| CEEX contract 88 / 03.10.2005 – "Materiale alternative multifunctionale cu cost scazut, pentru pile de combustie cu electrolit polimer (PEMFC) ce opereaza la temperaturi mai mari de 180$^{o}$C" | participant | 2005 - 2008 |
| cod 240 CNCSIS/2007-2008 STUDIUL POSIBILITATILOR DE FABRICARE A MATERIALELOR CARBONICE CU UTILIZARI SPECIALE | **director** | 2007-2008 |
| 4223 Transfer Tehnologic. Tehnologia de producerea magnetilor NeFeB acoperiti | participant | 2007-2008 |
| CEEX nr. 7033-Materiale magnetice cu performante superiore utilizarii in constructia masinilor electrice. | participant | 2006-2008 |
| PN 2 nr. 71-010/2007-2010_BIOCOMP Materiale avansate compozite biodegradabile cu aplicatii in realizarea unor preformate interioare automobilelor" | participant | 2007-2010 |
| IMPACT- BIOCAR Materiale avansate compozite biodegradabile cu aplicatii in constructia de autovehicule: | participant | 2007-2010 |
| Tehnologii avansate de mediu pentru reducere a poluarii rezultate din deversarea efluentilor specifici industriei energetice, utilizand materiale carbonice active cu precursori indigeni ieftini | participant | 2007-2008 |
| PN2 nr. 51-015/2007-2008 FOODIA Metodologie dielectrica nedistructiva, neinvaziva, comparativa de detectare rapida a ingredientilor cu potential factor de risc pentru sanatate din produsele alimentare- | participant | 2007-2008 |
| Proiect MAGME -"Materiale magnetice cu performanţe superioare utilizate în construcţia maşinilor electrice"Contract nr: 215 /2006-2008 | participant | 2006-2008 |