

**Europass
Curriculum Vitae**



Personal information

Surname/ First names **BARA, Adela**
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 E-mail abara@icpe-ca.ro
 Nationality Romanian
 Date of birth 08.08.1972
 Gender Female

Work experience

Dates	2011 - present
Occupation or position held	Senior researcher II, awarded by Order of Ministry of Education, Research, Youth and Sport no. 5296/07.09.2011
Main activities and responsibilities	Researches in the field of preparation and characterisation of Classical carbonaceous materials, with improved performances and in the field of: Advanced carbonaceous materials (C/C composites, with mesophasic matrix, metal (copper) / graphite composites powders graphite / copper); Composites based on carbonaceous mesophase and different type of nanoparticles; Composites with polimeric matrix and carbonaceous functional phase. R&D projects management
Name and address of employer	National Institute for Research & Development in Electrical Engineering ICPE-Advanced Research Bucharest
Type of business or sector	R&D
Dates	1999 - present
Occupation or position held	Senior researcher III
Main activities and responsibilities	Researches in the field of preparation and characterisation of Classical carbonaceous materials, with improved performances and in the field of: Advanced carbonaceous materials (C/C composites, with mesophasic matrix, metal (copper) / graphite composites powders graphite / copper); Composites based on carbonaceous mesophase and different type of nanoparticles; Composites with polimeric matrix and carbonaceous functional phase. R&D projects management
Name and address of employer	National Institute for Research & Development in Electrical Engineering ICPE-Advanced Research Bucharest
Type of business or sector	R&D
Dates	10/ 2004 – 12/ 2006
Occupation or position held	Junior researcher

Main activities and responsibilities	Researches in the field of preparation and characterisation of Classical carbonaceous materials, with improved performances and in the field of: Advanced carbonaceous materials (C/C composites, with mesophasic matrix, metal (copper) / graphite composites powders graphite / copper); Composites based on carbonaceous mesophase and different type of nanoparticles; Composites with polymeric matrix and carbonaceous functional phase.
Name and address of employer	Research & Development National Institute for Electrical Engineering ICPE-Advanced Research Bucharest
Type of business or sector	Research & Development
Dates	08/1999 – 10/2004
Occupation or position held	Diplomat Chemistry Engineer
Main activities and responsibilities	Researches in the field of preparation and characterisation of Classical carbonaceous materials, with improved performances and in the field of: Advanced carbonaceous materials (C/C composites, with mesophasic matrix, metal (copper) / graphite composites powders graphite / copper); Composites based on carbonaceous mesophase and different type of nanoparticles; Composites with polymeric matrix and carbonaceous functional phase 2002 - Responsible with Dangerous Chemical Substances Registration, documentation for anual authorization
Name and address of employer	SC ICPE-Advanced Research SA Bucharest
Type of business or sector	Research & Development
Education and training	
Perioada	Nov 2010 - Mar 2011
Calificarea / diploma obținută	Certificate of graduation
Disciplinele principale studiate / competențe profesionale dobândite	Entrepreneurship competences
Numele și tipul instituției de învățământ / furnizorului de formare	UEFISCDI
Nivelul în clasificarea națională sau internațională	Entrepreneurship competences
Perioada	15 – 17 July 2010
Calificarea / diploma obținută	Certificate of graduation
Disciplinele principale studiate / competențe profesionale dobândite	Accessing European funds; Project Management; Cost - benefit analysis.
Numele și tipul instituției de învățământ / furnizorului de formare	SC Expert Audit Group SRL Onesti
Nivelul în clasificarea națională sau internațională	Expert accessing European structural and cohesion funds
Principal subjects/occupational skills covered	Post graduation studies – Materials Science and Engineering
Name and type of organisation providing education and training	University "Politehnica" Bucharest, Faculty of Industrial Chemistry and Materials Science Engineering
Dates	2006
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	«Management o Research projects» (FP7 Application)
Name and type of organisation providing education and training	Ministry of Education & Research, National School of Political and Administrative Studies
Dates	2006
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	„3 rd SUMMER SCHOOL „EMERGING TECHNOLOGIES IN BIOMEDICINE””, 2 -7 July 2006, Patras, Greece
Name and type of organisation providing education and training	University of Patras, Breece

Dates 2006
 Title of qualification awarded Certificate of Appreciation
 Principal subjects/occupational skills covered Course „Electrically conductive Adhesives” , 5th September 2006, Dresden, Germany

Dates 2005
 Title of qualification awarded Certificate
 Principal subjects/occupational skills covered Course “Public manager” in the frame of din cadrul Programului de formare si perfectionare in MANAGEMENTUL CERCETARII, derulat de Ministerul Educatiei si Cercetarii (nov. 2005);
 Name and type of organisation providing education and training Ministry of Education & Research

Dates 2004
 Principal subjects/occupational skills covered Materials characterization and testing (optical microscopy, AFM, TEM, SEM)
 Name and type of organisation providing education and training University of Leeds

Dates 1999
 Title of qualification awarded Diploma Engineer
 Principal subjects/occupational skills covered Studies of Carbonaceous Materials Science

Personal skills and competences

Mother tongues Romanian

Other languages

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

Social skills and competences

- Experienced in leading teams and in working in teams;
- Team spirit gained as project leader and through teamwork;
- Good communication skills (both at human level as at the languages command level);
- Good contacts to SME's and associations in Romania.

Organisational skills and competences	<ul style="list-style-type: none"> - Coordination and management of national projects; <ul style="list-style-type: none"> o PNCDI II - „Advanced composite structures for aerospace and transport industry” (SUPERSOLID)” -2007-2013 o CEEEX - “Advanced materials for aerospace. C-C composites with mesophase matrix additivated with carbon nanotubes and laminated fibre-metal composites” - 2005-2008 o SECURITY – “Carbon composite materials for electromagnetic shielding” – 2005 - 2006 o CEEEX – „Researches regarding capture of CO₂ from fossil fuels burning“ o CEEEX - „Scientific network and technological platform for electronic packaging” 2006-2008 o CEEEX –“New composite materials for tribologic applications” -2006-2008 - Coordination of international projects <ul style="list-style-type: none"> o FP7 – REGPOT-2007-2- P206119- “Promotion of Competence to Up-grade the RTD Potential in Science and Technology” PROCUST – 2008-2009 – <i>workpackage manager</i> - Participation in international projects <ul style="list-style-type: none"> o FP6-2004-ACC-SSA-2 – “Strengthening of the RDI potential for advanced materials and composites to enhance the performance of the electrical industry” – 2005 -2008 – <i>member of project team</i> o NATO SfP 974214 – “Carbon/ceramic composite materials with electrotechnical applications” – 2000-2004 – <i>member of research team</i> o NATO SfP-LOVARC “electrical contacts for vacuum switch” – 2000-2004 – <i>member of research team</i> - Good knowledge of funding programmes at European and national level ; - Experienced in organizing and leading workshops and events; - Good presentation skills. - Secretary of the Scientific Council of INCDIE ICPE-CA; Participation as an recruited expert in the auction procedure by competitive dialogue for "Feasibility Study for the infrastructure of research-NP ELI (Extreme Light Infrastructure - Nuclear Physics)";
Computer skills and competences	PC - Windows 98/XP; Microsoft Office
Other skills and competences	<p>Experienced in negotiations with foreign partners</p> <p>Member of professional associations:</p> <ol style="list-style-type: none"> 1) Member IEEE 2) Member AGIR 3) The Romanian Society of Carbon materials 4) The Romanian Society of Magnetic Materials, affiliated to the UK Magnetics Society 5) Romanian Alliance for Hydrogen and Fuel Cells "- H2FC-EN 6) European Technology Platform EuMatT 7) National Technology Platform EuMaTRo
Driving license	B, since 2007
Informații suplimentare	<p>Books:</p> <p>“Carbon mesophase nanocomposites”, 2010, Ed. Printech, Bucharest, Romania, ISBN978-606-521-561-0</p> <p>Awards:</p> <p>2nd Prize awarded by NASR for Research and Development Complex Projects - Thematic: Security and Space project " Advanced materials for aerospace industry: CC composites with mesophasic matrix added with carbon nanotubes and fiber-metal laminate composite," coordinator SC INCAS SA, INCDIE ICPE-CA - Partner Silver Medal „INVENTIKA 2010” for patent „Carbon composite material for conductive pastes”, authors: Adela Bara, Cristina Banciu, Ana-Maria Bondar</p>
Annexes	<p>List of published / communicated papers (selection)</p> <p>List of patents</p>

List of communicated / published papers at national/international conferences

1. C. Banciu, **A. Bara**, L. Leonat, D. Patroi, „Carbon fiber composites for CO₂ adsorption”, 11th International Conference on Carbon Dioxide Utilization - ICCDU XI, 27-30 June 2011, Dijon, France.
2. **A. Bara**, C. Banciu, D. Patroi and C. Panaitescu, „Influence of CNTs addition on the mesophase development in petroleum pitch. An optical microscopy study”, 62nd Meeting of the International Committee for Coal And Organic Petrology (ICCP), Abstracts, p. 90-92, 26 September – 2 October 2010, Belgrad, Serbia.
3. **A. Bara**, C. Banciu, D. Patroi, G. Sbarcea, I. Ion, „Study of CNT Influence on Mesophase Sphere Morphology”, The Workshop with International Participation “Innovation and Evolution by R&D - SMEs Strategic Partnership”, 10–12 September 2009, Bucharest.
4. **A. Bara**, C. Banciu, D. Patroi, G. Sbarcea, I. Dinca, A. Stan, „CNT Reinforced Nanocomposites for Mechanical Applications”, The Workshop with International Participation “Innovation and Evolution by R&D - SMEs Strategic Partnership”, 10–12 September 2009, Bucharest.
5. I. Dinca, **A. Bara**, C. Banciu, A. Stefan, A. Stan, S. Gaman, V. Manoliu, D. Patroi, V. Marinescu, „Polymer nanocomposites as advanced materials”, Fourth International Conference on Computational Methods and Experiments in Materials Characterisation, 17-19 June 2009, New Forest, UK.
6. C. Banciu, I. Ion, **A. Bara**, G.A. Rimbu, A.M. Bondar, „Carbonaceous Nanocomposites for Electromagnetic Interference Applications”, Joint International Conference Materials for Electrical Engineering, Bucharest, 17-18 June 2008.
7. **Adela Bara**, Cristina Banciu, Ana Maria Bondar, Delia Patroi, Mirela Maria Codescu, „Electrical properties of carbon nanotubes based composites”, Joint International Conference Materials for Electrical Engineering, Bucharest, 17-18 June 2008.
8. C. Banciu, I. Ion, G.A. Rimbu, **A. Bara**, A.M. Bondar, „Carbon Composite Materials for EMI Applications Part II. Functional Tests”, The 2nd Workshop of Bio-electromagnetic Compatibility: Methods of Characterization and Shielding Materials, Curtea de Arges, 22-24th May 2008.
9. C. Banciu, **A. Bara**, I. Ion, A.M. Bondar, R. Vasilescu-Mirea, G. Stoian, E. Patroi, „Properties of Mesophase Pitch Modified with Different Iron Compounds”, Proceedings of The 5th Conference “New Research Trends in Material Science” – ARM 5, volume II, p. 543, 5-7 September 2007, Sibiu, Romania.

Publications

1. W. Kappel, **A. Bara**, C. Banciu, M. M. Codescu, C. Morari, E. A. Patroi, E. Manta, „Composites materials with applications in electromagnetic protection”, Optoelectronics and Advanced Materials-Rapid Communications, vol. 4, nr. 12, p. 2097 – 2102, 2010.
2. C. Banciu, **A. Băra**, I. Ion, D. Pătroi, G. Sbarcea, „Structural and functional properties of porous carbon fiber composites”, Optoelectronics and Advanced Materials-Rapid Communications, vol. 4, nr. 11, p. 1647 – 1650, 2010.
3. C. Banciu, **A. Băra**, I. Ion, D. Pătroi, L. Leonat, „Chemical activation of mesocarbon microbeads”, Optoelectronics and Advanced Materials-Rapid Communications, vol. 4, nr. 11, p. 1717 – 1720, 2010.
4. **A. Bara**, C. Banciu, A. M. Bondar, D. Patroi, M. M. Codescu, „Electrical properties of carbon nanotubes based composites”, Journal of Optoelectronics And Advanced Materials – SYMPOSIA, vol. 1, nr. 5, p. 949 - 953, 2009.
5. C. Banciu, I. Ion, **A. Bara**, G. A. Rimbu, A. M. Bondar, „Carbonaceous nanocomposites for electromagnetic interference applications”, Journal of Optoelectronics And Advanced Materials – SYMPOSIA, vol. 1, nr. 5, p. 967 - 970, 2009.
6. C. Banciu, **A. Bara**, I. Ioana, A. M. Bondar, R. Mirea, G. Stoian, E. Patroi, „Properties of iron modified mesophase pitch”, Journal of Optoelectronics and Advanced Materials, vol. 10, no. 12, p. 3233-3236, December 2008.
7. Radu Vasilescu-Mirea, **Adela Bara**, Ana Maria Bondar, Mihai Iordoc, Iulian Iordache, Mirela Maria Codescu, Doina Raducanu, Nicolae Stancu, Delia Patroi, Eugen Manta, Danut Cojocar, Ion Cinca, „Aliaje de CoCrTi si TiAlNb acoperite cu carbon folosite pentru aplicatii biologice/CoCrTi and TiAlNb Carbon Coated Alloys used in Medical Applications”, Revista Romana de Materiale/ Romanian Journal of Materials, Vol. 32(2), pp. 134-142, 2008
8. **Adela Bara**, Paula Lungu, Ana Maria Bondar, „Compozite pe baza de grafit acoperit cu cupru pentru contacte electrice glisante/Cooper-coated graphite composites for sliding electrical contacts”, Revista Romana de Materiale/ Romanian Journal of Materials, Vol. 32(2), pp. 130-133, 2008
9. **A. Bara**, A. M. Bondar, C. Banciu, R. Mirea, D. Patroi, „Carbon mesophase/carbon nanotubes nanocomposites – functional filler for conductive pastes”, Chemistry Magazine, vol. 10, p. 1395-1399, 2008.
10. **A. Bara**, A. M. Bondar, I. Iordache, R. Vasilescu-Mirea, C. Banciu, D. Patroi, S. Hodoroaga, „Electromagnetic shielding properties of carbon based composites”, Revue Roumaine Des Sciences Techniques, Serie Electrotechnique Et Energetique, vol. 3, 2008.
11. **A. Bara**, A.M. Bondar, D. Patroi, R. Vasilescu-Mirea, S. Hodoroaga, C. Banciu, „Mesophase development during thermal treatment of pitches”, Journal of Optoelectronics and Advanced Materials, vol. 10, no. 4, p. 896-899, aprilie 2008.
12. I. Ion, C. M. Mitu, Yu. Kovalev, **A. Bara**, „Structural Modifications Induced on the Coal Tar Pitch by Addition of Nanotubes and Nanofibers”, Journal of Optoelectronics and Advanced Materials, Vol. 10, No. 11, pp. 3141, 2008
13. A.I.Penu, **A. Bara**, „Obtinerea smoalelor mezofazice”, Revista de Chimie, vol. 53, nr.5, pp. 404-409, 2002

Articles indexed in interbational data bases

- 1 Codreanu N. D., Plotog. I. Svasta P., Turcu C. Varzaru G., Pitica D., Gavan M., **Bara A.**, Farcas C., Marin Al., Cucu T.C., „Implementation of ecological technologies in electronics industry based on RESPLATEPE research project”, ISSE 2007 – 30th International Spring Seminar on Electronics Technology 2007; Conference Proceedings: Emerging Technologies for Electronics Packaging, Art. Nr. 4432860, pp. 263-268, 2007, DOI: 10.1109/ISSE.2007.4432860
- 2 **A. Bara**, A. M. Bondar, P. M. Svasta, „Polymer/CNTs Composites for electronic Packaging”, 1st Electronics Systemintegration Technology Conference ESTC 2006, Vol. 1, Art. nr. 4060745, pp. 334-336, 2006, DOI: 10.1109/ESTC.2006.280021, ISBN 1-4244-0553-X
- 3 A.M.Bondar, **A. Bara**, D.Patroi, P.M. Svasta, „Carbon mesophase/carbon nanotubes nanocomposite – functional filler for conductive pastes”, Polytronic 2005: International Conference of Polymers and Adhesives in Microelectronics and Photonics – Proceedings, Vol. 2005, art nr. 1596522, pp. 215-218, 2005, DOI: 10.1109/POLYTR. 2005.1596522I, ISBN – 0-7803-9553-0
- 4 Radu Vasilescu-Mirea, **Adela Bara**, Ana Maria Bondar, Mihai Iordoc, Iulian Iordache, Mirela Maria Codescu, Doina Raducanu, Nicolae Stancu, Delia Patroi, Eugen Manta, Danut Cojocar, Ion Cinca, „Aliaje de CoCrTi si TiAlNb acoperite cu carbon folosite pentru aplicatii biologice/CoCrTi and TiAlNb Carbon Coated Alloys used in Medical Applications”, Revista Romana de Materiale/ Romanian Journal of Materials, Vol. 32(2), pp. 134-142, 2008, indexata INIST-CNRS, Cota INIST : 17665, 35400019798983.0080
- 5 **Adela Bara**, Paula Lungu, Ana Maria Bondar, „Compozite pe baza de grafit acoperit cu cupru pentru contacte electrice glisante/Cooper-coated graphite composites for sliding electrical contacts”, Revista Romana de Materiale/ Romanian Journal of Materials, Vol. 32(2), pp. 130-133, 2008, indexata INIST-CNRS, Cota INIST : 17665, 35400019798983.0070

Patents

1. **A. Bara**, C. Banciu, A.M.Bondar, „Carbon composite material for conductive pastes”, patent no. 122996/2010
2. **A. Bara**, C. Banciu, A.M.Bondar, „Composition of petroleum pitch and carbon nanotubes and process for obtaining”, patent no. RO125532

Patent applications OSIM

1. **A. Bara**, P. Lungu, „Procedure for obtaining a composite graphite powder coated with copper”, patent application OSIM no. A/00206/17.03.2008
2. **A. Bara**, C. Banciu, D. Patroi, L. Leonat, G.A. Rimbu, „Carbon-carbon composite materials reinforced with carbon fibers and nanocomposite carbonic matrix”, CBI nr. 01282/2010
3. G.A. Rimbu, I. Iordache, L.A. Teisanu, R. Vasilescu-Mirea, M. Iordoc, **A. Bara**, C. Banciu, T. Paraschiv, „5 kW cogeneration system based on fuel cells”, CBI nr. 01360/2010
4. G.A. Rimbu, I. Iordache, L.A. Teisanu, R. Vasilescu-Mirea, M. Iordoc, **A. Bara**, C. Banciu, „Electroconductive material based on epoxy resins and conductive fillers for fuel cell”, CBI nr. 01361/2010
5. C. Banciu, **A. Bara**, D. Patroi, L. Leonat, „Porous carbon materials with carbon fibers and process for obtaining”, CBI nr. A/00898/13.09.2011