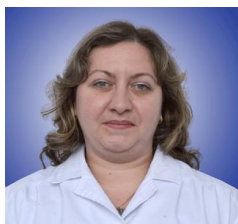




PERSONAL INFORMATION

Cristina Antonela Banciu



 National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest

 +40 213467231 / 103  +40 745046988

 cristina.banciu@icpe-ca.ro; crisbanciu@yahoo.com

Sex Female | Date of birth 30/12/1976 | Nationality Romanian

WORK EXPERIENCE

- October 2021-present **Technological development engineer I, Head of Carbon Materials Laboratory**
- National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, code 030138
- Researches in the field of obtaining of carbon nanotubes and graphene by chemical vapour deposition method, obtaining of graphene oxide and reduced graphene oxide by chemical method, obtaining of carbon fibers from PAN precursor, obtaining of nano/microfibers from polymer precursors by electrospinning method.
- Business or sector** Research and Development
- 2015-2021 **Technological development engineer II**
- National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, code 030138
- Researches in the field of obtaining of carbon nanotubes and graphene by chemical vapour deposition method, obtaining of graphene oxide and reduced graphene oxide by chemical method, obtaining of carbon fibers from PAN precursor, obtaining of nano/microfibers from polymer precursors by electrospinning method.
- Business or sector** Research and Development
- 2008-2015 **Senior researcher III**
- National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, code 030138
- Researches in the field of obtaining of carbon nanotubes and graphenes by chemical vapour deposition method, obtaining of carbon fibers from PAN precursor, obtaining of nanofibers from PAN precursor or PAN/CNT composite by electrospinning method.
 - Preparation of porous monolith carbon composites with carbon fibers.
 - Preparation and characterization of classical carbonaceous materials with improved performances and advanced carbonaceous materials (carbon/carbon composites with mesophase matrix).
 - Composites with polymer matrix and carbonic functional phase.
 - Activated carbon obtained by chemical activation of carbon mesophase.
- Business or sector** Research and Development
- 2006-2008 **Junior researcher**
- National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, code 030138
- Researches in the field of preparation and characterization of classical carbonaceous materials with improved performances and advanced carbonaceous materials (carbon/carbon composites with mesophase matrix).
 - Composites with polymer matrix and carbonic functional phase.
 - Activated carbon obtained by chemical activation of carbon mesophase.

Business or sector Research and Development

2004-2006 Assistant junior researcher

National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, code 030138

- Researches in the field of preparation and characterization of classical carbonaceous materials with improved performances and advanced carbonaceous materials (carbon/carbon composites with mesophase matrix, composites carbon/iron oxides).
- Composites based on carbon mesophase and various types of nanoparticles.
- Composites with polymer matrix and carbonic functional phase.

Business or sector Research and Development

2002-2004 Assistant junior researcher

SC ICPE - Advanced Research SA Bucharest, Splaiul Unirii, no. 313, code 030138

- Researches in the field of preparation and characterization of classical carbonaceous materials with improved performances and advanced carbonaceous materials (carbon/carbon composites with mesophase matrix, composites carbon/iron oxides).
- Composites based on carbon mesophase and various types of nanoparticles.
- Composites with polymer matrix and carbonic functional phase.

Business or sector Research and Development

2001-2002 Diplomat chemical engineer

SC ICPE - Advanced Research SA Bucharest, Splaiul Unirii, no. 313, code 030138

- Researches in the field of preparation and characterization of classical carbonaceous materials with improved performances and advanced carbonaceous materials (carbon/carbon composites with mesophase matrix, composites carbon/iron oxides).
- Composites based on carbon mesophase and various types of nanoparticles.

Business or sector Research and Development

EDUCATION AND TRAINING

2003-2012 PhD

EQF level 8

„Politehnica” University of Bucharest, Faculty of Applied Chemistry and Material Science

- Post-graduate studies in engineering studies - thesis title “Carbon Composites”

2000-2001 Diploma of master in chemistry

EQF level 7

„Politehnica” University of Bucharest, Faculty of Applied Chemistry and Material Science

- Computer application in chemical and biochemical engineering

1995-2000 Diploma of chemical engineer

EQF level 6

„Politehnica” University of Bucharest, Faculty of Applied Chemistry and Material Science

- Organic Chemical Technology

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

- Communication skills**
- good communication skills gained through my experience to communicate with team members as project responsible
 - experience in multidisciplinary and multinational teams acquired in the research projects

- Organisational / managerial skills**
- Head of Carbon Materials Laboratory - responsible for a team of 6 people
 - Coordination and management of ATTRACT, H2020 - third-party Project – „Carbon quantum dots/graphene hybrids with broad photoresponsivity” (2019-2020) – responsible for a team of 12 people
 - Coordination and management of Experimental Demonstration Project "Dye Sensitized Solar Cells With Integrated 3D Graphene sStructures (Acronym DSSC-WIDGET)" (2017-2018) - responsible for a team of 15 people
 - Coordination and management of Basic Program "Filters based on polymeric micro/nanofibers obtained by electrospinning" (2016-2017) - responsible for a team of 17 people
 - Coordination and management of Basic Program "Device of detection and adsorption of CO₂" (2009-2015) - responsible for a team of 20 people
 - Experience in organizing workshops and conferences

Digital competence

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- A good familiarity with instruments Microsoft Office (Word, Excel, PowerPoint)
- Elementary knowledge of application Origin
- Elementary knowledge of applications CorelDRAW and Pinnacle Studio

Driving licence Category B, since 1996

ADDITIONAL INFORMATION

- Publications**
- C. A. Banciu, F. Nastase, A. I. Istrate, L. M. Veca, "3D Graphene Foam by Chemical Vapor Deposition: Synthesis, Properties, and Energy-Related Applications", *Molecules* 2022, 27, 3634, Doi: 10.3390/molecules27113634
 - I. Iordache, A. Sobetkii, C. Vitelaru, E. Chitanu, C. A. Banciu, G. Iosif, V. Marinescu, G. Sbarcea, L. Acnola, V. Capatina, "Influence of hydrogen annealing on the properties of AZO thin films", vol. 24, no. 5-6, p. 256-262, 2022
 - T. Malaeru, M. M. Codescu, E. Chitanu, G. Georgescu, C. A. Banciu, R. C. Dascalu, D. Patroi, V. Marinescu, I. Borbath, "Synthesis and characterization of silica nanoparticles with modified surface for hydrophobic coatings", vol. 24, no. 1-2, p. 74-81, 2022

- E. Chitanu, T. Malaeru, M. M. Codescu, C. A. Banciu, V. Marinescu, "Hydrophobic Protective Coatings Based on Functionalized SiO₂ for Wind Devices Applications", Publicat în: 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2021, pp. 1-4, doi: 10.1109/ATEE52255.2021.9425214
- C. A. Banciu, D. Patroi, E. M. Lungulescu, B. G. Sbarcea, V. E. Marinescu, "Freestanding graphene networks", Journal of Optoelectronics and Advanced Materials, vol. 23, iss. 3-4, pp. 173-182, 2021
- C. Banciu, M. Lungulescu, A. Bara, G. Sbarcea, D. Patroi, V. Marinescu, "Graphene grown by chemical vapor deposition on metal foams", AIP Conference Proceedings, vol. 2206, nr. 1, 050001, 2020, <https://doi.org/10.1063/5.0000296>.
- Adela Bara, Cristina Banciu, Elena Chitanu, Virgil Marinescu, Magdalena-Valentina Lungu, Angela Dorogan, Eftalea Carpus, Carmen Ghituleasa, "Aspects regarding accomplishing multilayered filtration media, using electrospun webs", Proceedings of the 7th International Conference on Advanced Materials and Systems, pp. 295-300, 2018, DOI: 10.24264/icams-2018.VI.2
- Adriana-Ioana Subțirică, Cristina Antonela Banciu, Andreea Ana-Maria Chivu, Laurențiu Christian Dincă, „Nanofibres made from biocompatible and biodegradable polymers, with potential application as medical textiles”, Industria textilă, vol. 69, no. 1, p. 55-58, 2018.
- Banciu Cristina, Băra Adela, Chițanu Elena, Marinescu Virgil, Sbârcea Gabriela, Ion Ioana, „The effect of process parameters on the electrospun polystyrene fibers”, Industria textilă, vol. 69, no. 4, p. 263-269, 2018.
- Elena Chițanu, Cristina Banciu, Gabriela Sbârcea, Virgil Marinescu, Adela Băra, Paula Barbu (Prioteasa), „Hydrothermal Synthesis and Characterization of Hybrid ZnO/3D Graphene Structures”, Revista de Chimie, vol. 69, no. 12, p. 3376-3381, 2018.
- Elena Chițanu, Adela Băra, Cristina Banciu, Marius Lungulescu, Virgil Marinescu, „Study of electrospun cellulose acetate fibers”, Industria textilă, vol. 69, no. 5, p. 363-368, 2018.
- L.M. Veca, F. Nastase, C. Banciu, M. Popescu, C. Romanitan, M. Lungulescu, R. Popa, "Synthesis of macroporous ZnO-graphene hybrid monoliths with potential for functional electrodes", Diamond & Related Materials, vol. 87, p. 70–77, 2018, DOI: 10.1016/j.diamond.2018.05.010.
- C. Banciu, A. Bara, E. Chitanu, M. Lungulescu, I. Ion, L. Leonat, "Filtering membranes based on electrospun expanded polystyrene/β-cyclodextrin fibers", Published in: 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), March 23-25, 2017, Bucharest, Romania, IEEE, p. 223-226, DOI: 10.1109/ATEE.2017.7905084.
- Elena Chitanu, Adela Bara, Delia Patroi, Virgil Marinescu, Maria Mirela Codescu, Cristina Banciu, "PAN/ZnO composite electrospun fibers for UV shielding applications", Published in: 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), March 23-25, 2017, Bucharest, Romania, IEEE, p. 227-230, DOI: 10.1109/ATEE.2017.7905098.
- C. Banciu, M. Lungulescu, A. Băra, L. Leonat, A. Teișanu, „3D graphene network investigation by Raman spectroscopy”, Optoelectronics And Advanced Materials–Rapid Communications, vol. 11, no. 5-6, p. 368–372, 2017.
- Băra A., Banciu C., Marinescu V., Morari C., Pătroi D., "Influence of Fe Catalyst Morphology on the Growing of Carbon Nanotubes", In: Sontea V., Tiginyanu I. (eds) 3rd International Conference on Nanotechnologies and Biomedical Engineering, IFMBE Proceedings, Springer, Singapore, vol. 55, p. 205–208, 2016, DOI: 10.1007/978-981-287-736-9_51.
- A. Bara, E. Chitanu, C. Banciu, V. Marinescu, V. Tsakiris, „Polyacrylonitrile-based electrospun fibers”, Published in: 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), May 7-9, 2015, Bucharest, Romania, IEEE, p. 250-253, DOI: 10.1109/ATEE.2015.7133776.
- C. Banciu, A. Bara, G. A. Rîmbu, A. Teișanu, L. Leonat, "Electrically renewable carbon fibers composites for CO₂ adsorption", Optoelectronics and Advanced Materials-Rapid Communications, vol. 9, no. 9-10, p. 1160-1163, 2015.
- Adela Bara, Virgil Marinescu, Elena Chitanu, Cristina Banciu, Florentina Clicinschi, "Influence of process parameters on the morphology of polyacrylonitrile electrospun fibers", Industria Textila, no. 4, p. 232-239, 2015.
- Paula Prioteasa, Virgil Marinescu, Adela Bara, Mihai Iordoc, Teișanu Aristofan, Cristina Banciu, Viorica Meltzer, "Electrodeposition of polypyrrole on carbon nanotubes/Si in the presence of Fe catalyst for application in supercapacitors", Chemistry Magazine, vol. 66, no. 6, p. 820-824, 2015.
- Bara, A., Banciu, C., Bondar, A. M., Patroi, E. A., "Carbon Mesophase-based Composites with Electro-Magnetic Properties", Chemistry Magazine, vol. 64, issue 2, p. 174-181, 2013.

- 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, no. 12, p. 2097-2102, 2010.
- C. Banciu, A. Bara, I. Ion, D. Patroi, G. Sbârcea, "Structural and functional properties of porous carbon fiber composites", *Optoelectronics and Advanced Materials-Rapid Communications*, vol. 4, no. 11, p. 1647-1650, 2010.
- C. Banciu, A. Bara, I. Ion, D. Patroi, L. Leonat, "Chemical activation of mesocarbon microbeads", *Optoelectronics and Advanced Materials-Rapid Communications*, vol. 4, no. 11, p. 1717-1720, 2010.

Books

- Banciu Cristina, "Porous carbon composites", Publishing house Printech, Bucharest, ISBN 978-606-521-916-8, 2012.

Projects

- ATTRACT, H2020 - third-party project – „Carbon quantum dots/graphene hybrids with broad photoresponsivity” (2019-2020) – Partner responsible
- Experimental Demonstration Project - "Dye Sensitized Solar Cells With Integrated 3D Graphene Structures (DSSC-WIDGET)" (2017-2018) - Project coordinator
- Experimental Demonstration Project - "Textile filtering media with fibrous polymeric layers obtained by electrospinning (FILTER)" (2017-2018) - Member of research team
- Core Program – "Filters based on polymeric micro/nanofibers obtained by electrospinning" (2016-2017) - Project coordinator
- Bilateral Cooperation Romania – IUCN Dubna – „Obtaining and characterization of 3D graphene/ZnO composite networks", Theme no. 04-4-1121-2018/2020 (2018) - Project coordinator
- Bilateral Cooperation Romania – IUCN Dubna – „Obtaining and characterization of 3D graphene networks", Theme no. 04-4-1121-2015/2017 (2015-2017) - Project coordinator
- Bilateral Cooperation Romania – IUCN Dubna - „Electrospun polymeric nanocomposite fibers with different functionalities", Theme no. 04-4-1121-2015/2017 (2015-2016) - Member of research team
- „Planar heater based on electroconductive carbon fibres designed for satellite thermal management", contract ESA AO/1-7557/13/NL/SC (2014-2016) - Member of research team
- Bilateral Cooperation Romania – IUCN Dubna – „Preparation and characterization of CNT/polymer composites and micro(nano) composite fibers for sensing applications", Theme no. 04-4-1069-2009/2014 (2014-2015) - Member of research team
- Program for Research-Development-Innovation for Space Technology and Advanced Research – STAR – "Advanced composite structures for space applications" (2012-2015) - Member of research team
- MNT ERA NET Project – „Mini-supercapacitors technology, based on hybrid CNT/CNF - electroactive polymer networks" (2012-2014) - Member of research team
- Core Program - "Device for detection and adsorption of CO₂" (2009-2011) - Project coordinator
- PNCDI II – „Advanced composite structures for aerospace and transport industry – SUPERSOLID" (2007-2010) - Member of research team

Conferences

- Elena Chițanu, Teodora Malaeru, Mirela Maria Codescu, Cristina Antonela Banciu, Virgil Marinescu, Gabriela Georgescu, Istvan Borbath, „Hydrophobic Protective Coatings Based on Functionalized SiO₂ for Wind Devices Applications", The 12th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, 25-27 martie 2021, București, România, DOI: 10.1109/ATEE52255.2021.9425214
- C. Banciu, M. Lungulescu, G. Sbarcea, D. Pătroi, V. Marinescu, A. Bara, „Freestanding 3D Graphene", IV International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2020, 20-23 ianuarie 2020, Caparica, Portugalia
- G. Sbarcea, C. Banciu, D. Patroi, V. Marinescu, „Structural investigation of 3D Graphene", IV International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2020, 20-23 ianuarie 2020, Caparica, Portugalia
- Cristina Banciu, Marius Lungulescu, Adela Băra, Gabriela Sbârcea, Delia Pătroi, Virgil Marinescu, „Graphene grown by chemical vapor deposition on metal foams", 12th International Conference PROCESSES IN ISOTOPES AND MOLECULES PIM 2019, 25-27 septembrie 2019, Cluj-Napoca, România, pp. 86

- Adela Băra, Mihai Badic, Cristian Morari, Virgil Marinescu, Delia Patroi, Marius Lungulescu, Cristina Banciu, „Carbon nanomaterials obtained by electrical explosion of graphite rods in water”, 19th International Balkan Workshop on Applied Physics, 16-19 iulie 2019, Constanta, România, BOOK OF ABSTRACTS, issue 19/2019, pp. 33
- Beatrice Gabriela Sbarcea, Cristina Banciu, Virgil Marinescu, Delia Patroi, Marius Lungulescu, „Structural characterization of ZnO nanorods/graphene composites synthesized by hydrothermal method”, 19th International Balkan Workshop on Applied Physics, 16-19 iulie 2019, Constanta, România, BOOK OF ABSTRACTS, issue 19/2019, pp. 43
- Cristina Banciu, Adela Băra, Iulian Iordache, Marius Lungulescu, Gabriela Sbarcea, Virgil Marinescu, Delia Patroi, Ioana Ion, „Investigation of ZnO/graphene networks nanostructures obtained by magnetron sputtering technique”, 19th International Balkan Workshop on Applied Physics, 16-19 iulie 2019, Constanta, România, BOOK OF ABSTRACTS, issue 19/2019, pp. 44, print ISSN 2501-9058/ISSN L 2501-9058
- Radu Setnescu, Marius Lungulescu, Adela Băra, Tanta Setnescu, Cristina Banciu, Virgil Marinescu, Otilia Culicov, Sergey Kulikov, „Gamma-radiation behaviour of some conductive carbon composites exhibiting self-regulation temperature properties”, 19th International Balkan Workshop on Applied Physics, 16-19 iulie 2019, Constanta, România, BOOK OF ABSTRACTS, issue 19/2019, pp. 118
- Banciu Cristina Antonela, Băra Adela, Chițanu Elena, Marinescu Virgil Emanuel, „Multilayer electrospun membrane and process for obtaining the same”, 11th Edition of EUROINVENT EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 16-18 mai 2019, Iasi, România, pp. 452, <http://www.euroinvent.org/cat/e2019.pdf>, ISSN Print: 2601-4564
- Banciu Cristina Antonela, Băra Adela, Chițanu Elena, Lungulescu Eduard-Marius, Ion Ioana, „Electrospun membrane based on expanded polystyrene with cyclodextrin additive and process for obtaining the same”, 11th Edition of EUROINVENT EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 16-18 mai 2019, Iasi, România, pp. 453, <http://www.euroinvent.org/cat/e2019.pdf>, ISSN Print: 2601-4564
- C. Banciu, A. Bara, E. Chitanu, M. Lungulescu, V. Marinescu, D. Patroi, G. Sbarcea, I. Ion, “3D graphene/zinc oxide composite network for electrode applications”, 18th International Balkan Workshop on Applied Physics and Materials Science, 10-13 July 2018, Constanta, Romania
- E. Chitanu, V. Marinescu, A. Bara, C. Banciu, “Polymeric non-woven for UV protection”, 18th International Balkan Workshop on Applied Physics and Materials Science, 10-13 July 2018, Constanta, Romania
- L.M. Veca, C. Banciu, F. Nastase, R. Popa, M. Popescu, “Template-assisted CVD Growth of 3D Graphene Foam as Electrode Material in Solar Cells”, 8th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS 2018), 24-30 April 2018, Oludeniz, Turkey
- C. Banciu, A. Bara, E. Chițanu, V. Marinescu, G. Sbarcea, I. Ion, „The effect of process parameters on the electrospun polystyrene fiber”, 8th Texteh International Conference, 19-20 October 2017, Bucharest, Romania
- E. Chitanu, A. Bara, C. Banciu, M. Lungulescu, V. Marinescu, „Study of electrospun cellulose acetate fibers”, 8th Texteh International Conference, 19-20 October 2017, Bucharest, Romania
- C. Banciu, A. Bara, M. Lungulescu, V. Marinescu, E. Chitanu, G. Sbarcea, „Three-Dimensional Graphene Structures Preparation and Characterization”, 5th International Conference On Powder Metallurgy And Advanced Materials RoPM-AM2017, 16-21 September 2017, Cluj-Napoca, Romania
- E. Chitanu, C. Banciu, G. Sbarcea, V. Marinescu, A. Bara, "Hydrothermal Synthesis and Characterization of Hybrid ZnO/3D Graphene Structures", "The Conference 20th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE)", 6-9 September 2017, Poiana Brasov, Romania
- C. Banciu, A. Bara, M. Lungulescu, V. Marinescu, A. Teisanu, „The influence of processing conditions on the structure and properties of 3D graphene”, 28th International Conference on Diamond and Carbon Materials, 3-7 September 2017, Goteborg, Sweden
- L.M. Veca, F. Nastase, C. Banciu, C. Pachi, R. Popa, T. Sandu, C. Romanitan, A. Dinescu, „Macroporous hybrids of ZnO and 3D graphene: a new material for electrode technologies”, 28th International Conference on Diamond and Carbon Materials, 3-7 September 2017, Goteborg, Sweden

- C. Banciu, A. Bara, E. Chitanu, M. Lungulescu, I. Ion, L. Leonat, "Filtering membranes based on electrospun expanded polystyrene/ β -cyclodextrin fibers", The 10th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, 23-25 March 2017, Bucharest, Romania
- E. Chitanu, A. Bara, D. Patroi, V. Marinescu, M. M. Codescu, C. Banciu, "PAN/ZnO composite electrospun fibers for UV shielding applications", The 10th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, 23-25 March 2017, Bucharest, Romania
- C. Banciu, A. Bara, M. Lungulescu, L. Leonat, "Graphene network investigation by Raman spectroscopy", 3rd International Conference on Analytical Chemistry ROICAC 2016, 28-31 August 2016, Iasi, Romania
- A. Bara, C. Banciu, V. Marinescu, C. Morari, D. Patroi, "Influence of Fe catalyst morphology on the growing of carbon nanotubes", 3rd International Conference on Nanotechnologies and Biomedical Engineering, 23-26 September 2015, Chisinau, Republic of Moldova
- A. Bara, E. Chitanu, C. Banciu, V. Marinescu, V. Tsakiris, "Polyacrylonitrile-based Electrospun Fibers", The 9th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, 7-9 May 2015, Bucharest, Romania
- 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
- 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

Honours and awards

- Gold medal at EUROINVENT 2021 for the patent "Graphene material for supercapacitors and process for obtaining the same", authors Bara Adela, Banciu Cristina Antonela, Iordoc Mihai Nicolae, Prioteasa Paula Ionela, Marinescu Virgil Emanuel
- Silver medal at EUROINVENT 2021 for the patent "Zinc oxide - three-dimensional graphene network hybrid composite material and process for obtaining the same", authors Banciu Cristina Antonela, Bara Adela, Chitanu Elena, Ion Ioana, Teisanu Aristofan Alexandru, Marinescu Virgil Emanuel
- Gold medal PRO INVENT 2020 for the patent "Supercapacitor with electrodes from electroactive material based on graphene materials", authors Iordoc Mihai Nicolae, Ion Ioana, Teisanu Aristofan Alexandru, Barbu Ionela Paula, Bara Adela, Banciu Cristina Antonela
- Gold medal at EUROINVENT 2019 for the patent "Multilayer electrospun membrane and process for obtaining the same", authors Banciu Cristina Antonela, Bara Adela, Chitanu Elena, Marinescu Virgil Emanuel
- Gold medal at International Exhibition of Inventions PRO INVENT 2017, Cluj-Napoca, Romania for the patent "Supercapacitor with gel electrolyte", authors Iordoc Mihai Nicolae, Teisanu Aristofan Alexandru, Bara Adela, Prioteasa Paula Ionela, Banciu Cristina Antonela
- Gold medal at International Exhibition of Inventions PRO INVENT 2017, Cluj-Napoca, Romania for the patent "Composite material for structural elements in space vehicles with shielding properties from ionizing and electromagnetic radiation", authors Teisanu Aristofan Alexandru, Bara Adela, Iordoc Mihai Nicolae, Prioteasa Paula Ionela, Caramitu Alina Ruxandra, Mitrea Sorina, Banciu Cristina Antonela
- Silver medal at International Exhibition of Inventions Geneva 2017 for the patent "Supercapacitor with gel electrolyte", authors Iordoc Mihai Nicolae, Teisanu Aristofan Alexandru, Bara Adela, Prioteasa Paula Ionela, Banciu Cristina Antonela
- Gold medal at International Exhibition of Inventions PRO INVENT 2016, Cluj-Napoca, Romania for the patent "The process for obtaining a carbon-carbon composite", authors Bara Adela, Banciu Cristina, Patroi Delia, Leonat Lucia Nicoleta, Rimbu Gimi Aurelian
- Special award at International Exhibition of Inventions PRO INVENT 2016, Cluj-Napoca, Romania for the patent "The process for obtaining a carbon-carbon composite", authors Bara Adela, Banciu Cristina, Patroi Delia, Leonat Lucia Nicoleta, Rimbu Gimi Aurelian
- Silver medal at International Exhibition of Inventions Geneva 2016 for the patent "Porous carbon materials with carbon fibers and process for their obtaining", authors Banciu Cristina, Bara Adela, Patroi Delia, Leonat Lucia

- Gold medal at International Competition Brussels EUREKA 2015 for the patent "The process for obtaining a carbon-carbon composite", authors Bara Adela, Banciu Cristina, Patroi Delia, Leonat Lucia Nicoleta, Rimbu Gimi Aurelian
- Silver medal at "INVENTIKA 2010" for the patent "Carbonic composite material for conductive pastes", authors: Adela Bara, Cristina Banciu, Ana-Maria Bondar

Memberships

- Member of professional associations: Romanian Society of Magnetic Materials, Romanian Ceramic Society

Courses and Certifications

- Certificate obtained at "Introduction course in documents elaboration of quality and environment management system", June 7th 2002
- Participation to the course "Elaboration of a business plan", The Chamber of Commerce and Industry of Romania and Bucharest, January 2003
- Training in the frame of NATO Science for Peace 974214 Project, at Leeds University, Materials Department (20 June - 03 July 2004), tutor: Prof. Brian Rand, referring to study of some characterization techniques (optical microscopy, atomic force microscopy, transmission electron microscopy and scanning electron microscopy).
- Certificate obtained at "Entrepreneurship competences Course", July 26th 2011
- Certificate of Training on Fist Nano EasyTube 2000 System for Carbon Nanotube and Graphene Chemical Vapor Deposition, August 10th 2011
- Certificate obtained at "Project Manager Course", 04-10th June 2015
- Quantachrome's Autosorb Training (training included gas adsorption theory and data interpretation, operation of Autosorb-iQ instrument and software, and instrument maintenance), February 5-9 2018

Patents

- Iordoc M. N., Teisanu A. A., Bara A., Prioteasa P. I., Banciu C. A., "Supercapacitor with gel electrolyte", OSIM Patent no. 131245 / 30.07.2019;
- Teisanu A. A., Bara A., Iordoc M. N., Barbu I. P., Caramitu A. R., Mitrea S. A., Banciu C. A., "Composite material for structural elements in space vehicles with shielding properties against ionizing and electromagnetic radiation", OSIM Patent no. 131958 / 29.11.2018;
- C. Banciu, A. Bara, D. Patroi, L. Leonat, "Porous carbon materials with carbon fibers and process for their obtaining", OSIM Patent no. 127500 / 29.04.2016;
- A. Bara, C. Banciu, D. Patroi, G.A. Rimbu, "A process for producing a carbon-carbon type composite", OSIM Patent no. 126305 / 28.08.2015;
- Rimbu Gimi, Borbath Istvan, Boros Tiberiu, Iordache Iulian, Teisanu Alexandru, Radu Vasilescu-Mirea, Iordoc Mihai, Bara Adela, Banciu Cristina, "Electroconductive material based on epoxy resins and conductive fillers for fuel cells", OSIM Patent no. 127059 / 30.04.2014;
- Adela Bara, Cristina Banciu, Ana Maria Bondar, "Composition based on petroleum pitch and carbon nanotubes, and process for obtaining", OSIM Patent no. 125532 B1 / 30.06.2011;
- Adela Bara, Cristina Banciu, Ana Maria Bondar, "Carbonic nanocomposite material, for conductive pastes", OSIM Patent no. 122996 B1 / 30.06.2010;
- Cristina Banciu, Gimi A. Rimbu, Ana Maria Bondar, Elena Enescu, Ioan Stamatina, "Carbonic nanocomposite material", OSIM Patent no. 122293 B1 / 30.03.2009.