

PERSONAL INFORMATION

Cristina BUSUIOC



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Sex Female | Date of birth 27/09/1985 | Nationality Romanian

WORK EXPERIENCE

October 2019 - Present

Associate Professor

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Department of Science and Engineering of Oxide Materials and Nanomaterials, 1-7 Gh. Polizu Street, District 1, Bucharest, Romania, www.upb.ro, www.chimie.upb.ro

- Designing and teaching of courses for students.
- Conducting students during the practical activities (laboratories, seminars, projects, internships).
- Guiding students in order to accomplish different research projects.
- Synthesis and characterization of materials with applications in different areas of current interest.

Business or sector Higher Education and Scientific Research

July 2017 - April 2020

Specialty Inspector I degree

Romanian Agency for Quality Assurance in Higher Education, 59 Marasti Street, District 1, Bucharest, Romania, www.aracis.ro

- Monitoring the activities of quality external evaluation for university study programs and higher education institutions.
- Coordinating the activity of some Permanent Specialty Expert Commissions and evaluating experts from the National Register of Evaluators.
- Implementing the programs or projects supported by European funds.

Business or sector Higher Education

October 2015 - September 2019

Assistant Professor (Lecturer)

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Department of Science and Engineering of Oxide Materials and Nanomaterials, 1-7 Gh. Polizu Street, District 1, Bucharest, Romania, www.upb.ro, www.chimie.upb.ro

- Designing and teaching of courses for students.
- Conducting students during the practical activities (laboratories, seminars, projects, internships).
- Guiding students in order to accomplish different research projects.
- Synthesis and characterization of materials with applications in different areas of current interest.

Business or sector Higher Education and Scientific Research

February 2015 - June 2015

Associate Teaching Staff

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Department of Science and Engineering of Oxide Materials and Nanomaterials, 1-7 Gh. Polizu Street, District 1, Romania, www.upb.ro, www.chimie.upb.ro

- Designing and teaching of the Course (Course, Project and Laboratory) entitled *The Use of Photonic and Accelerated Particles Beams in Materials Science and Medicine* from the Master Programme *Engineering and Applications of Lasers and Accelerators*, organised by University POLITEHNICA of Bucharest in collaboration with *Horia Hulubei* National Institute for Research and Development in Physics and Nuclear Engineering and National Institute for Research and Development in Laser, Plasma and Radiation Physics.

Business or sector Higher Education

September 2010 - September 2015

Scientific Research Assistant

National Institute for Research and Development in Materials Physics, Laboratory of Multifunctional Materials and Structures, Group of Functional Nanostructures, 105bis Atomistilor Street, Magurele, Ilfov, Romania, www.infim.ro

- Synthesis by conventional and unconventional methods of materials such as: particles, fibres, films and bulk.
- Complex characterization (thermal, compositional, structural, morphological, optical, electric etc.) of oxide, polymer, composite etc. materials.

Business or sector Scientific Research

EDUCATION AND TRAINING

May 2014 - December 2015

PostDoc Researcher

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania

- Postdoctoral Research Project *One-Dimensional Oxide Structures Obtained by Electrospinning*.

October 2010 - July 2013

Bachelor of Science in the Field of Communication Sciences

EQF level 6

National School of Political and Administrative Studies, Faculty of Communication and Public Relations, Department of Communication and Public Relations, Bucharest, Romania

- Achievement of communication, interpersonal, organizational and management skills.
- Licence Thesis *Strategies to Prevent and Solve Organizational Crisis. Case study*.

October 2009 - September 2012

Doctor of Science in the Field of Chemical Engineering

EQF level 8

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania

- PhD Thesis *Microwave Ceramics*.

October 2009 - July 2011

Master of Science in the Field of Chemical Engineering

EQF level 7

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania

- Master Programme *Advanced Composite Materials with Special Destinations*.
- Dissertation Thesis *2D and 3D Dielectric Ceramic Structures for Microwave Applications*.

October 2004 - June 2009

Bachelor of Science in the Field of Chemical Engineering

EQF level 6

University POLITEHNICA of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania

- Diploma Thesis *Ba(Mg_{1/3}Ta_{2/3})O₃ Dielectric Ceramic for Microwave Applications*.

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
French	B2	B2	B1	B1	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Communication skills**
- Advanced communication skills, achieved after graduating from National School of Political and Administrative Studies, Faculty of Communication and Public Relations, Department of Communication and Public Relations.
- Organisational / managerial skills**
- Guiding students in order to accomplish different research projects or during internships.
 - Organizer of *C.D. Neitescu* National Chemistry Contest, organized by Faculty of Chemical Engineering and Biotechnologies from University POLITEHNICA of Bucharest, for 5 years (2004–2008).
- Job-related skills**
- Experience regarding the teaching activity specific to the field of Chemical Engineering.
 - Practical experience in the field of synthesis and characterization of materials.
 - Good knowledge of working protocol from Cleaning Room type Laboratories.
 - Proficient user of the following equipment: electrospinning, sputtering, UV-Vis spectroscopy, photoluminescence spectroscopy and scanning electron microscopy.
- Computer skills**
- Good knowledge of Microsoft Office, Origin and AutoCAD tools.
 - Good command of Pascal and FoxPro programming languages.
 - Owner of *European Computer Driving Licence* (2006).
 - Owner of Vocational Certificate for *Computer Operating Skills* (2004).
- Other skills**
- Teamwork experience, gained through participation at different activities involved by the practical and research projects carried out both within the faculty and the institute.
- Driving licence**
- Category B (2005).

ADDITIONAL INFORMATION

- Publications**
- P.L. Matei, I. Deleanu, A.M. Brezoiu, N.A. Chira, **C. Busuioc**, G. Isopencu, M. Ciltea-Udrescu, E. Alexandrescu, A. Stoica-Guzun; *Ultrasound-Assisted Extraction of Blackberry Seed Oil: Optimization and Oil Characterization*; *Molecules* 28 (2023) 2486.
 - G. Isopencu, I. Deleanu, **C. Busuioc**, O. Oprea, V.A. Surdu, M. Bacalum, R. Stoica, A. Stoica-Guzun; *Bacterial Cellulose-Carboxymethylcellulose Composite Loaded with Turmeric Extract for Antimicrobial Wound Dressing Applications*; *International Journal of Molecular Sciences* 24 (2023) 1719.
 - C. Busuioc**, G.O. Isopencu, I.M. Deleanu; *Bacterial Cellulose-Polyvinyl Alcohol Based Complex Composites for Controlled Drug Release*; *Applied Sciences* 13 (2023) 1015.
 - C. Busuioc**, G. Isopencu, A. Banciu, D.D. Banciu, O. Oprea, A. Mocanu, I. Deleanu, M. Zaulet, L. Popescu, R. Tanasuica, M. Vasilescu, A. Stoica-Guzun; *Bacterial Cellulose Hybrid Composites with Calcium Phosphate for Bone Tissue Regeneration*; *International Journal of Molecular Sciences* 23 (2022) 16180.
 - C. Busuioc**, G. Isopencu, A. Banciu, D.D. Banciu, O. Oprea, A. Mocanu, I. Deleanu, M. Zaulet, L. Popescu, R. Tanasuica, M. Vasilescu, A. Stoica-Guzun; *Bacterial Cellulose Hybrid Composites with Calcium Phosphate for Bone Tissue Regeneration*; *International Journal of Molecular Sciences* 23 (2022) 16180.
 - C. Busuioc**, A.E. Alecu, C.C. Costea, M. Beregoi, M. Bacalum, M. Raileanu, S.I. Jinga, I.M. Deleanu; *Composite Fibres Based on Polycaprolactone and Calcium Magnesium Silicate Powders for Tissue Engineering Applications*; *Polymers* 14 (2022) 4611.
 - A.E. Alecu, G.C. Balaceanu, A.I. Nicoara, I.A. Neacsu, **C. Busuioc**; *Synthesis and Characterization of Porous Forsterite Ceramics with Prospective Tissue Engineering Applications*; *Materials* 15 (2022) 6942.
 - A.E. Alecu, S.A. Girjoaba, M. Beregoi, S.I. Jinga, **C. Busuioc**; *The Influence of Electrospinning Parameters on the Morphological Features of PVDF Fibres*; *Romanian Journal of Materials* 52 (2022) 228–237.
 - A.E. Alecu, C.C. Costea, V.A. Surdu, G. Voicu, S.I. Jinga, **C. Busuioc**; *Processing of Calcium Magnesium Silicates by the Sol-Gel Route*; *Gels* 8 (2022) 574.

- D.A. Draghici, A.A. Mihai, M.O. Aioanei, N.E. Negru, A.I. Nicoara, S.I. Jinga, D. Miu, M. Bacalum, **C. Busuioc**; *Strontium-Substituted Bioactive Glass-Ceramic Films for Tissue Engineering*; Boletín de la Sociedad Española de Cerámica y Vidrio 61 (2022) 184–190.
- N. Zohreh, N. Karimi, S.H. Hosseini, C. Istrate, **C. Busuioc**; *Fabrication of a Magnetic Nanocarrier for Doxorubicin Delivery Based on Hyperbranched Polyglycerol and Carboxymethyl Cellulose: An Investigation on the Effect of Borax Cross-Linker on pH-Sensitivity*; International Journal of Biological Macromolecules 203 (2022) 80–92.
- G.O. Isopencu, A. Stoica-Guzun, **C. Busuioc**, M. Stroescu, I.M. Deleanu; *Development of Antioxidant and Antimicrobial Edible Coatings Incorporating Bacterial Cellulose, Pectin, and Blackberry Pomace*; Carbohydrate Polymer Technologies and Applications 2 (2021) 100057.
- R. Marinescu, D. Laptoiu, I.C. Stancu, **C. Busuioc**; *Late Failure of a Polyethylene Unicompartmental Knee Inset-Retrieval Analysis Protocol and Results*; Plastic Materials 58 (2021) 187–196.
- P.L. Matei, **C. Busuioc**, N. Ionescu, A. Stoica-Guzun, N.A. Chira; *Cnicus Benedictus Oil as a Raw Material for Biodiesel: Extraction Optimization and Biodiesel Yield*; Sustainability 13 (2021) 13193.
- M.T. Patrascu, A.D. Busuioc, **C. Busuioc**, A. Cotarta, A. Cojocaru, T. Visan, D.I. Vaireanu; *Experimental Study on the Corrosion of Carbon Steel and Aluminum Alloy in Firefighting Protein Foam Concentrates*; Materials 14 (2021) 7259.
- P. Chipurici, A. Vlaicu, I. Călinescu, M. Vinătoru, **C. Busuioc**, A. Dinescu, A. Ghebaur, E. Rusen, G. Voicu, M. Ignat, A. Diacon; *Magnetic Silica Particles Functionalized with Guanidine Derivatives for Microwave-Assisted Transesterification of Waste Oil*; Scientific Reports 11 (2021) 17518.
- S.I. Jinga, A.M. Anghel, S.F. Brincoveanu, R.M. Bucur, A.D. Florea, B.I. Saftau, S.C. Stroe, A.I. Zamfirescu, **C. Busuioc**; *Ce/Sm/Sr-Incorporating Ceramic Scaffolds Obtained via Sol-Gel Route*; Materials 14 (2021) 1532.
- S.I. Jinga, V.T. Toma, I. Constantinoiu, A. Banciu, D.D. Banciu, **C. Busuioc**; *Development of New Mg- or Sr-Containing Bioactive Interfaces to Stimulate Osseointegration of Metallic Implants*; Applied Sciences 10 (2020) 6647.
- N. Zohreh, Z. Rastegaran, S.H. Hosseini, M. Akhlaghi, C. Istrate, **C. Busuioc**; *pH-Triggerea Intracellular Release of Doxorubicin by a Poly(Glycidyl Methacrylate)-Based Double-Shell Magnetic Nanocarrier*; Materials Science and Engineering C 118 (2021) 111498.
- E. Rusen, R. Somoghi, **C. Busuioc**, A. Diacon; *Hydrophilic Modification of Polyvinyl Chloride with Polyacrylic Acid Using ATRP*; RSC Advances 10 (2020) 35692–35700.
- A. Diacon, E. Rusen, A. Trifan, R. Somoghi, O. Tutunaru, G. Craciun, **C. Busuioc**, G. Voicu; *Preparation of Metal and Metal Oxide Doped Silica Hollow Spheres and the Evaluation of Their Catalytic Performance*; Colloid and Polymer Science 298 (2020) 1401–1410.
- S.I. Jinga, C.C. Costea, A.I. Zamfirescu, A. Banciu, D.D. Banciu, **C. Busuioc**; *Composite Fibre Networks Based on Polycaprolactone and Bioactive Glass-Ceramics for Tissue Engineering Applications*; Polymers 12 (2020) 1806.
- G.A. Prefac, M.L. Milea, A.M. Vadureanu, S. Muraru, D.I. Dobrin, G.O. Isopencu, S.I. Jinga, M. Raileanu, M. Bacalum, **C. Busuioc**; *CeO₂ Containing Thin Films as Bioactive Coatings for Orthopaedic Implants*; Coatings 10 (2020) 642.
- R.I. Schitea, A. Nitu, A.A. Ciobota, A.L. Munteanu, I.M. David, D. Miu, M. Raileanu, M. Bacalum, **C. Busuioc**; *Pulsed Laser Deposition Derived Bioactive Glass-Ceramic Coatings for Enhancing the Biocompatibility of Scaffolding Materials*; Materials 13 (2020) 2615.
- A.I. Zamfirescu, A. Baci, D. Banciu, S.I. Jinga, **C. Busuioc**; *Composite Fibrous Scaffolds Designed for Bone Regeneration*; Romanian Journal of Materials 50 (2020) 161–165.
- **C. Busuioc**, E. Olaret, I.C. Stancu, A.I. Nicoara, S.I. Jinga; *Electrospun Fibre Webs Templated Synthesis of Mineral Scaffolds Based on Calcium Phosphates and Barium Titanate*; Nanomaterials 10 (2020) 772.
- S.I. Jinga, A.D. Draghici, A. Mocanu, A.I. Nicoara, F. Iordache, **C. Busuioc**; *Bacterial Cellulose-Assisted Synthesis of Glass-Ceramic Scaffolds with TiO₂ Crystalline Domains*; International Journal of Applied Ceramic Technology 17 (2020) 2017–20124.
- A.D. Draghici, **C. Busuioc**, A. Mocanu, A.I. Nicoara, F. Iordache, S.I. Jinga; *Composite Scaffolds Based on Calcium Phosphates and Barium Titanate Obtained through Bacterial Cellulose Templated Synthesis*; Materials Science and Engineering C 110 (2020) 110704.
- A. Mocanu, G. Isopencu, **C. Busuioc**, O.M. Popa, P. Dietrich, L. Socaciu-Siebert; *Bacterial Cellulose Films with ZnO Nanoparticles and Propolis Extracts: Synergistic Antimicrobial Effect*; Scientific Reports 9 (2019) 17687.
- A. Diacon, A. Mocanu, C.E. Raducanu, **C. Busuioc**, R. Somoghi, B. Trica, A. Dinescu, E. Rusen; *New Carbon/ZnO/Li₂O Nanocomposites with Enhanced Photocatalytic Activity*; Scientific Reports 9 (2019) 16840.
- S.I. Jinga, A.I. Zamfirescu, G. Voicu, M. Enculescu, A. Evanghelidis, **C. Busuioc**; *PCL-ZnO/TiO₂/HAp Electrospun Composite Fibres with Applications in Tissue Engineering*; Polymers 11 (2019) 1793.

- S.I. Jinga, M. Skokin, B.S. Vasile, I. Constantinoiu, D. Miu, M. Bacalum, **C. Busuioc**; *Development of Vitroceramic Coatings and Analysis of Their Suitability for Biomedical Applications*; *Coatings* 9 (2019) 671.
- G. Voicu, D. Miu, C.D. Ghitulica, S.I. Jinga, A.I. Nicoara, **C. Busuioc**, A.M. Holban; *Co Doped ZnO Thin Films Deposited by Spin Coating as Antibacterial Coating for Metallic Implants*; *Ceramics International* 46 (2020) 3904–3911.
- **C. Busuioc**, G. Voicu, S.I. Jinga, V. Mitran, A. Cimpean; *The Influence of Barium Titanate on the Biological Properties of Collagen-Hydroxiapatite Composite Scaffolds*; *Materials Letters* 253 (2019) 317–322.
- S.I. Jinga, I. Constantinoiu, V.A. Surdu, F. Iordache, **C. Busuioc**; *Sol-Gel-Derived Mineral Scaffolds within SiO₂-P₂O₅-CaO-MgO-ZnO-CaF₂ System*; *Journal of Sol-Gel Science and Technology* 90 (2019) 411–421.
- R. Lisnic, **C. Busuioc**, G. Voicu, S.I. Jinga; *Influence of Gypsum, as Natural Rock or Industrial Waste, on the Properties of Portland Cement Mortars*; *Romanian Journal of Materials*, 2019, 49 (1), 102–110.
- V. Dinca, A. Mocanu, G. Isopencu, **C. Busuioc**, S. Brajnicov, A. Vlad, M. Icriverzi, A. Roseanu, M. Dinescu, M. Stroescu, A. Stoica-Guzun, M. Sucheia; *Biocompatible Pure ZnO Nanoparticles-3D Bacterial Cellulose Biointerfaces with Antibacterial Properties*; *Arabian Journal of Chemistry* 13 (2020) 3521–3533.
- G. Isopencu, M. Stroescu, A. Brosteanu, N. Chira, O.C. Parvulescu, **C. Busuioc**, A. Stoica-Guzun; *Optimization of Ultrasound and Microwave Assisted Oil Extraction from Sea Buckthorn Seeds by Response Surface Methodology*; *Journal of Food Process Engineering* 42 (2019) e12947.
- R. Negrea, **C. Busuioc**, I. Constantinoiu, D. Miu, C. Enache, F. Iordache, S.I. Jinga; *Akermanite Based Coatings Grown by Pulsed Laser Deposition for Metallic Implants Employed in Orthopaedics*; *Surface and Coatings Technology* 357 (2019) 1015–1026.
- S.B. Ahmed, A. Stoica-Guzun, F.H. Kamar, T. Dobre, D. Gudovan, **C. Busuioc**, I.M. Jipa; *Ultrasound Enhanced Removal of Lead from Wastewater by Hazelnut Shell: An Experimental Design Methodology*; *International Journal of Environmental Science and Technology* 16 (2019) 1249–1260.
- **C. Busuioc**, I. Constantinoiu, M. Enculescu, M. Beregoi, S.I. Jinga; *Ceramic Thin Films Deposited by Spin Coating as Coatings for Metallic Implants*; *Romanian Journal of Materials*, 2018, 48 (4), 401–406.
- E. Matei, **C. Busuioc**, A. Evangelidis, I. Zgura, M. Enculescu, M. Beregoi, I. Enculescu; *Hierarchical Functionalization of Electrospun Fibers by Electrodeposition of Zinc Oxide Nanostructures*; *Applied Surface Science* 458 (2018) 555–563.
- N. Zohreh, S.H. Hosseini, M. Tavakolizadeh, **C. Busuioc**, R. Negrea; *Palladium Pincer Complex Incorporation onto the Fe₃O₄-Entrapped Cross-Linked Multilayered Polymer as a High Loaded Nanocatalyst for Oxidation*; *Journal of Molecular Liquids* 266 (2018) 393–404.
- **C. Busuioc**, C.D. Ghitulica, A. Stoica, M. Stroescu, G. Voicu, V. Ionita, L. Averous, S.I. Jinga; *Calcium Phosphates Grown on Bacterial Cellulose Template*; *Ceramics International* 44 (2018) 9433–9441.
- S.H. Hosseini, N. Zohreh, S. Alipour, **C. Busuioc**, R. Negrea; *Gold Nanoparticles Stabilized on SBA-15 Functionalized NNN-Pincer Ligand; Highly Effective Catalyst for Reduction of Nitroarenes in Aqueous Medium*; *Catalysis Communications* 108 (2018) 93–97.
- G. Voicu, S.I. Jinga, B.G. Drosu, **C. Busuioc**; *Improvement of Silicate Cement Properties with Bacterial Cellulose Powder Addition for Applications in Dentistry*; *Carbohydrate Polymers* 174 (2017) 160–170.
- **C. Busuioc**, G. Voicu, I.D. Zuzu, D. Miu, C. Sima, F. Iordache, S.I. Jinga; *Vitroceramic Coatings Deposited by Laser Ablation on Ti-Zr Substrates for Implantable Medical Applications with Improved Biocompatibility*; *Ceramics International* 43 (2017) 5498–5504.
- **C. Busuioc**, S.I. Jinga; *Iron Nanostructures Embedded in Alumina Multilayered Matrix by Successive Laser Deposition*; *Applied Surface Science* 424 (2017) 138–144.
- **C. Busuioc**, A. Evangelidis, A. Galatanu, I. Enculescu; *Direct and Contactless Electrical Control of Temperature of Paper and Textile Foldable Substrates Using Electrospun Metallic-Web Transparent Electrodes*; *Scientific Reports* 6 (2016) 34584.
- G. Voicu, V.L. Ene, D.F. Sava, V.A. Surdu, **C. Busuioc**; *Sol-Gel Derived Vitroceramic Materials for Biomedical Applications*; *Journal of Non-Crystalline Solids* 449 (2016) 75–82.
- **C. Busuioc**, M. Stroescu, A. Stoica-Guzun, G. Voicu, S.I. Jinga; *Fabrication of 3D Calcium Phosphates Based Scaffolds Using Bacterial Cellulose as Template*; *Ceramics International* 42 (2016) 15449–15458.
- A.V. Zafir, G. Voicu, **C. Busuioc**, S.I. Jinga, M.G. Albu, F. Iordache; *New Coll-HA/BT Composite Materials for Hard Tissue Engineering*; *Materials Science and Engineering C* 62 (2016) 795–805.
- M. Beregoi, **C. Busuioc**, A. Evangelidis, E. Matei, F. Iordache, M. Radu, A. Dinischiotu, I. Enculescu; *Electrochromic Properties of Polyaniline-Coated Fiber Webs for Tissue Engineering*

Applications; International Journal of Pharmaceutics 510 (2016) 465–473.

- G. Voicu, D. Miu, I. Dogaru, S.I. Jinga, **C. Busuioc**; *Vitroceraic Interface Deposited on Titanium Substrate by Pulsed Laser Deposition Method*; International Journal of Pharmaceutics 510 (2016) 449–456.
- **C. Busuioc**, V.A. Surdu, E. Andronescu; *Morphological and Optical Investigation of CuO Fibers Prepared via Electrospinning*; University POLITEHNICA of Bucharest Scientific Bulletin, Series B, Vol. 77, Iss. 3, 2015, 3–12.
- **C. Busuioc**, A. Evanghelidis, M. Enculescu, I. Enculescu; *Optical and Photocatalytic Properties of Electrospun ZnO Fibers*; Digest Journal of Nanomaterials and Biostructures, Vol. 10, No. 3, July–September 2015, 957–965.
- **C. Busuioc**, A. Evanghelidis, C. Florica, I. Enculescu; *Influence of Preparation Steps on the Properties of Electrospun ZnO Fibers*; Digest Journal of Nanomaterials and Biostructures, Vol. 9, No. 4, October–December 2014, 1569–1578.
- M. Enculescu, A. Evanghelidis, **C. Busuioc**, C. Florica, A. Costas, M. Oancea, N. Preda, E. Matei, I. Enculescu; *Dependence on the Dye's Type and Concentration of the Emissive Properties of Electrospun Dye-Doped Beaded Nanofibers*; Digest Journal of Nanomaterials and Biostructures, Vol. 9, No. 2, April–June 2014, 809–816.
- **C. Busuioc**, S.I. Jinga; *Preparation and Characterization of $\text{Li}_x\text{Zn}_{2-x}\text{V}_x\text{Si}_{1-x}\text{O}_4$ Ceramics*; Ceramics International 40 (2014) 5931–5936.
- **C. Busuioc**, S.I. Jinga; *$\text{BaZn}_{1/3}\text{Ta}_{2/3}\text{O}_3$ Ceramics Doped with Nb^{5+} , Zr^{4+} or Eu^{3+}* ; Romanian Journal of Materials, 2013, 43 (4), 438–444.
- **C. Busuioc**, S.I. Jinga; *Characterization of LiZnVO_4 Ceramics Prepared by Two Different Methods*; Journal of Optoelectronics and Advanced Materials, Vol. 15, No. 11–12, November–December 2013, 1470–1474.
- L. Nedelcu, N.D. Scarisoreanu, C. Chirila, **C. Busuioc**, M.G. Banciu, S.I. Jinga, M. Dinescu; *Structural and Dielectric Properties of $\text{Ba}(\text{X}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Thin Films Grown by RF-PL*; Applied Surface Science 278 (2013) 158–161.
- L. Nedelcu, **C. Busuioc**, M. G. Banciu, R. Ramer; *$\text{Ba}(\text{X}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Complex Perovskites for Microwave and Millimeter-Wave Applications*; Proceedings of the International Semiconductor Conference, Vol. 2, 303–306, Octombrie 2012, Sinaia, România; ISBN 978-1-4673-0737-6.
- **C. Busuioc**; *Synthesis and Structural Characterization of Three Different Tantalum-Based Ceramics*; Optoelectronics and Advanced Materials - Rapid Communications, Vol. 6, No. 9–10, September–October 2012, 896–901.
- **C. Busuioc**, S.I. Jinga, E. Andronescu; *Barium Magnesium Tantalate Thin Films Obtained by Sol-Gel Processing*; Romanian Journal of Materials, 2012, 42 (3), 299–305.
- S.I. Jinga, S. Stoleriu, **C. Busuioc**; *Microwave Dielectric Properties of $\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Ceramics Doped with Nb_2O_5 , MnO_2 or V_2O_5* ; Materials Research Bulletin 47 (2012) 3713–3718.
- **C. Busuioc**, S.I. Jinga, S. Stoleriu, L. Nedelcu, E. Andronescu; *$\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Perovskite Ceramics Doped with Nb^{5+} , Ce^{4+} or Yb^{3+}* ; Journal of Optoelectronics and Advanced Materials, Vol. 14, No. 3–4, March–April 2012, 238–244.
- M. Ene-Dobre, M.G. Banciu, L. Nedelcu, G. Stoica, **C. Busuioc**, H.V. Alexandru; *Microwave Antennas Based on $\text{Ba}_{1-x}\text{Pb}_x\text{Nb}_2\text{Ti}_5\text{O}_{14}$* ; Journal of Optoelectronics and Advanced Materials, Vol. 13, No. 10, October 2011, 1298–1304.
- **C. Jinga**, E. Andronescu, D. Berger, C. Matei, Sorin Jinga; *Characterization of $\text{BaMg}_{1/3}(\text{Ta}_{1-x}\text{V}_x)_{2/3}\text{O}_3$ ($x = 0.1, 0.2$) Ceramics Prepared by Modified Pechini Method*; University POLITEHNICA of Bucharest Scientific Bulletin, Series B, Vol. 72, Iss. 4, 2010, 3–10.
- **C. Jinga**, D. Berger, C. Matei, S. Jinga, E. Andronescu; *Characterization of $\text{BaMg}_{1/3}(\text{Ta}_{1-x}\text{Nb}_x)_{2/3}\text{O}_3$ Ceramics Obtained by a Modified Pechini Method*; Journal of Alloys and Compounds 497 (2010) 239–243.
- **C. Jinga**, E. Andronescu, S. Jinga, A. Ioachim, L. Nedelcu, M.I. Toacsan; *Synthesis and Characterization of Doped $\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Ceramics*; Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 2, February 2010, 282–287.

Projects

- *Smart Scaffolds Built on Biocellulose 3D Architecture or Artificial Electrospun Templates for Hard Tissue Engineering* (ScaBiES), Young teams, Contract: 66/2018 (2018–2020), Project Director: Dr. **C. Busuioc**.
- *Vitroceraic Biocoatings* (BioVitros), UPB-GEX2017, CH 38-17-06 (2017–2018), Project Director: Dr. **C. Busuioc**.
- *Composite Materials Based on Biopolymers and Ceramic Particles, with Applications in Tissue Engineering and Controlled Drugs Delivery* (BIOCOMPAT), 05–AUF-RO (2016–2017), Project Director: Dr. C.D. Ghitulica; Specialist.
- *Optical Nanofabrication in 5 nm - 50 nm range* (NANOFAB), Partnerships, Contract 237/2014 (2014–2016); Specialist.

- *High Efficiency Electrospinning* (HEFFES), Partnerships, Contract 159/2012 (2012–2015); Specialist.
- *Selective Tunable Structures with Liquid Crystals for Microwave Applications* (SCRILAM), Partnerships, Contract 72-230/2008 (2008–2011); Specialist.
- *Nanostructured Systems with Applications in High Frequency Devices* (HIFI), Partnerships, Contract 12-093/2008, (2008–2011); Specialist.
- *Nanocomposites with Improved Optical and Magnetic Properties by Laser Sequential Deposition* (NCOMDLAS), Partnerships, Contract 12-088/2008 (2008–2011); Specialist.
- *New InN Materials with Variable Forbidden Bandgap for Applications in Optoelectronics* (MInNA), Partnerships, Contract 72-162/2008 (2008–2011); Specialist.
- *Electromagnetic Field Propagation in High Dielectric Constant Materials with Applications in Microwave Antenna and Sensors for Information Technology Society* (PMCDRASSI), Partnerships, Contract 12-078/2008 (2008–2011); Specialist.
- *Architectures of Advanced Materials with Applications in the Treatment of Polluted Waters* (AMAP), Partnerships, Contract 32-116/2008 (2008–2011); Specialist.
- *Systems for Monitoring the Effects of Nano-Oxides in the Decomposition of Reactive Oxygen Species (ROS) from Processes of Biological Interest*, Partnerships, Contract 62-053/2008 (2008–2011); Specialist.
- *Functional Perovskite Materials with Applications in Electronics and Optoelectronics* (MATPEROL), Partnerships, Contract 71-040/2007 (2007–2010); Specialist.

Conferences

- I.C. Petcu, I.C. Cernat, C. Polonschii, D. Bratu, S. David, E. Gheorghiu, **C. Busuioc**; *Development of a Magnetic Component for a Smart System*; International Chemical Engineering and Material Symposium, November 2022, Bucharest, Romania (poster presentation).
- M.E. Puscasu, A.I. Nicoara, S. Stoleriu, **C. Busuioc**, L.M. Cursaru, R.M. Piticescu; *Additive Manufacturing of Biomimetic Scaffolds with Potential in bone Tissue Reconstruction*; International Symposium "Priorities of Chemistry for Sustainable Development", October 2022, Bucharest, Romania (oral presentation).
- A.E. Alecu, S.A. Girjoaba, C.C. Costea, A.I. Nicoara, M. Beregoi, M. Bacalum, M. Raileanu, **C. Busuioc**; *Electrospun Fibres Loaded with Active Powders as Multifunctional Hard Tissue Scaffolds*; 22nd Romanian International Conference on Chemistry and Chemical Engineering, September 2022, Sinaia, Romania (poster presentation).
- **C. Busuioc**, I. Stancu, A. Nicoara, A. Zamfirescu, A. Evanghelidis; *Electrospun Fibre Networks Loaded with Hydroxyapatite and Barium Titanate as Smart Scaffolds for Tissue Regeneration*; International Conference on Materials Engineering, Chemistry and Nanomaterials, March 2020, Dubai, United Arab Emirates (e-poster presentation).
- **C. Busuioc**, A.I. Zamfirescu, A. Banciu, A. Evanghelidis; *Composite Fibrous Scaffolds Designed for Bone Regeneration*; 782nd International Conference on Chemical and Biochemical Engineering, March 2020, Brussels, Belgium (oral presentation).
- **C. Busuioc**, A.I. Zamfirescu, G. Voicu; *PCL-ZnO/TiO₂/HAp Composite Electrospun Fibres with Applications in Tissue Engineering*; World Congress on Chemistry, October 2019, Valencia, Spain (poster presentation).
- **C. Busuioc**, A.I. Nicoara; *Bacterial Cellulose - Hydroxyapatite Composites Decorated with Silver Nanoparticles for Medical Applications*; 28th Annual Conference Biomaterials in Medicine and Veterinary Medicine, October 2019, Rytro, Poland (poster presentation).
- **C. Busuioc**, A. Mocanu, A. Evanghelidis; *Smart Scaffolds Built on Electrospun Fiber Networks for Hard Tissue Engineering*; XXVIII International Materials Research Congress, August 2019, Cancun, Mexico (poster presentation).
- **C. Busuioc**, A. Stoica, M. Stroescu, A. Mocanu, I. Constantinoiu, S.I. Jinga; *Fabrication of Mineral Scaffolds for Hard Tissue Implants: Synthesis Routes*; XVI Conference of the European Ceramic Society, June 2019, Turin, Italy (poster presentation).
- A.I. Nicoara, **C. Busuioc**, A. Mocanu, A. Stoica, M. Stroescu, S.I. Jinga; *Composite Scaffolds Based on Calcium Phosphates and Barium Titanate for Hard Tissue Implants*; XVI Conference of the European Ceramic Society, June 2019, Turin, Italy (poster presentation).
- I. Constantinoiu, **C. Busuioc**, F. Iordache, S.I. Jinga; *Sol-gel Derived Mineral Scaffolds for Hard Tissue Applications*; XVI Conference of the European Ceramic Society, June 2019, Turin, Italy (poster presentation).
- A. Mocanu, G. Isopencu, **C. Busuioc**, O.M. Popa, P. Dietrich, L. Socaciu-Siebert; *Bacterial Cellulose Substrate Impregnated with Zinc Oxide Nanoparticles and Propolis Extracts and Their Synergetic Antimicrobial Effect*; 7th International Conference on Biobased and Biodegradable Polymers, June 2019, Stockholm, Sweden (poster presentation).
- **C. Busuioc**, A. Stoica, M. Stroescu, S.I. Jinga; *Influence of Processing Parameters on the*

- Properties of Calcium Phosphates Based Scaffolds*; 12th International Conference on Physics of Advanced Materials, September 2018, Heraklion, Greece (poster presentation).
- C. Raducanu, A. Mocanu, A. Diacon, **C. Busuioc**, O. Parvulescu; *Composite Materials Based on Active Carbon from Biomass Residues and Zinc Oxide Nanoparticles for Photocatalytic Degradation*; SICHEM 2018 Symposium, September 2018, Bucharest, Romania (poster presentation).
 - **C. Busuioc**, I. Constantinoiu, D. Miu, S.I. Jinga; *Bioactive Mineral Coatings Derived from SiO₂ - CaO - MgO - P₂O₅ - ZnO - CaF₂ System*; 5th TERMIS World Congress, September 2018, Kyoto, Japan (poster presentation).
 - **C. Busuioc**, A. Stoica, M. Stroescu, S.I. Jinga; *Template Assisted Synthesis of Calcium Phosphates - BaTiO₃ Composite Scaffolds*; 14th International Conference on Advanced Nanomaterials, July 2018, Aveiro, Portugal (poster presentation).
 - **C. Busuioc**, D. Miu, S.I. Jinga; *Vitroceramic Coatings Obtained by Means of Laser Ablation, with Applications in Dentistry and Orthopedics*; 3rd National Congress on Regenerative Medicine, November 2017, Moscow, Russia (poster presentation).
 - A. Cucuruz, **C. Busuioc**, G. Voicu; *Vitroceramic Thin Film Coatings Deposited on Metallic Substrates Based on Ti by Laser Ablation*; 3rd National Congress on Regenerative Medicine, November 2017, Moscow, Russia (poster presentation).
 - **C. Busuioc**, C.D. Ghitulica, G. Voicu, M. Stroescu, S. Dinescu, L. Averous; *Effects of Processing Parameters on the Properties of Calcium Phosphates - Bacterial Cellulose Composites and Derived Mineral Scaffolds*; 20th Romanian International Conference on Chemistry and Chemical Engineering, September 2017, Poiana Braşov, Romania (oral presentation).
 - **C. Busuioc**, S. Jinga, E. Pavel; *Vitroceramic Disks for High Density Data Storage*; 20th Romanian International Conference on Chemistry and Chemical Engineering, September 2017, Poiana Braşov, Romania (poster presentation).
 - A. Mocanu, G. Isopencu, **C. Busuioc**, M. Stroescu, A. Stoica-Guzun; *Antimicrobial Activity of Bacterial Cellulose - Zinc Oxide Composites Containing Propolis Extracts*; 20th Romanian International Conference on Chemistry and Chemical Engineering, September 2017, Poiana Braşov, Romania (poster presentation).
 - **C. Busuioc**, G. Voicu, S.I. Jinga; *Biocellulose Template for 3D Mineral Scaffolds*; 19th International Conference on Tissue Engineering and Regenerative Medicine, July 2017, Paris, France (e-poster presentation).
 - G. Voicu, C.D. Ghitulica, A. Cucuruz, **C. Busuioc**; *Tricalcium Phosphate - Chitosan Composites for Tissue Engineering Applications*; 19th International Conference on Tissue Engineering and Regenerative Medicine, July 2017, Paris, France (e-poster presentation).
 - A. Cucuruz, C.D. Ghitulica, G. Voicu, **C. Busuioc**; *Synthesis of Tricalcium Phosphate Substituted with Magnesium Ions for Bone Regeneration*; 19th International Conference on Tissue Engineering and Regenerative Medicine, July 2017, Paris, France (e-poster presentation).
 - **C. Busuioc**, S.I. Jinga, E. Pavel; *Laser Writing on Vitroceramic Disks for Petabyte Data Storage*; 19th International Conference on Nanotechnology, Optoelectronics and Photonics, May 2017, Dubai, United Arab Emirates (e-poster presentation).
 - **C. Busuioc**, G. Voicu, S.I. Jinga; *Influence of BaTiO₃ on the Biological Behaviour of Hydroxyapatite - Collagen Composites*; 101st International Conference on Medical, Biological and Pharmaceutical Sciences, December 2016, Paris, France (e-poster presentation).
 - A. Cucuruz, C.D. Ghitulica, G. Voicu, **C. Busuioc**; *Synthesis of Tricalcium Phosphate Substituted with Magnesium Ions for Bone Regeneration*; 101st International Conference on Medical, Biological and Pharmaceutical Sciences, December 2016, Paris, France (e-poster presentation).
 - S. Jinga, D. Miu, **C. Busuioc**, C. Sima; *Iron Nanostructures Embedded in Alumina Multilayered Matrix by Successive Laser Deposition*; 8th International Conference on Advanced Nanomaterials, September 2016, Guildford, England (poster presentation).
 - **C. Busuioc**, S. Jinga, E. Pavel; *3D Writing on Photosensitive Glass-Ceramics*; 18th International Conference on Nanotechnology and Materials Sciences, June 2016, Copenhagen, Denmark (e-poster presentation).
 - **C. Busuioc**, S. Jinga, E. Pavel; *Fluorescent Photosensitive Vitroceramics with Silver and Samarium Additives: Improvement of Writing Accuracy and Efficiency for 3D Optical Storage Media*; Nanotech France 2016 International Conference and Exhibition, June 2016, Paris, France (poster presentation).
 - M. Beregoi, H. Iovu, **C. Busuioc**, A. Evangelidis, E. Matei, M. Enculescu, I. Enculescu; *Synthesis of Smart Materials Based on Polyaniline Coated Fibers*; 17th International Conference on Materials Science and Engineering, October 2015, London, United Kingdom (e-poster presentation).
 - **C. Busuioc**, V.A. Surdu, C. Jinga, E. Andronescu; *Oxide Fibers Obtained via Electrospinning*; 19th Romanian International Conference on Chemistry and Chemical Engineering, September 2015, Sibiu, Romania (oral presentation).
 - **C. Busuioc**, A. Evangelidis, M. Enculescu, I. Enculescu; *Electrospun Fiber Webs for*

- Thermochromic Display Applications*; 6th International Conference on Nanotechnology: Fundamentals and Applications, July 2015, Barcelona, Spain (oral presentation).
- M. Beregoi, **C. Busuioc**, A. Evanghelidis, E. Matei, I. Enculescu; *Polyaniline-Coated Electrospun Fibers for Electrochromic Applications*; 6th International Conference on Nanotechnology: Fundamentals and Applications, July 2015, Barcelona, Spain (oral presentation).
 - M. Beregoi, **C. Busuioc**, A. Evanghelidis, E. Matei, I. Enculescu; *Electrical Activity and Electrochromic Properties of Polyaniline-Coated Fiber Networks for Tissue Engineering Applications*; The 8th International Conference on Advanced Materials, July 2015, Bucharest, Romania (poster presentation).
 - M. Beregoi, **C. Busuioc**, A. Evanghelidis, E. Matei, I. Enculescu; *Polyaniline-Coated Active Fiber Networks*; Young Scientists Joining for Excellence in Biomaterials Research, May 2015, Bucharest, Romania (poster presentation).
 - L.M. Trinca, A.C. Galca, A. Evanghelidis, **C. Busuioc**, E. Matei, I. Enculescu, L. Pintilie, I. Pintilie; *Flexible Transparent Electrodes for Solar Cells*; Conference of the European Materials Research Society - Spring Meeting, May 2015, Lille, France (poster presentation).
 - **C. Busuioc**, A. Evanghelidis, C. Florica, I. Enculescu; *Characterization of ZnO fibers prepared via electrospinning*; The 23rd European Workshop on Heterostructure Technology, October 2014, Rauschholzhausen, Germany (poster presentation).
 - **C. Busuioc**, A. Evanghelidis, C. Florica, A. Costas, I. Enculescu; *Influence of Preparation Conditions on the Properties of Electrospun ZnO Fibers*; Conference of the European Materials Research Society - Spring Meeting, May 2014, Lille, France (poster presentation).
 - A. Evanghelidis, **C. Busuioc**, E. Matei, I. Enculescu; *Zinc Oxide Electrodeposition Using Metallic/Polymer Nanofiber Webs as Electrodes*; Conference of the European Materials Research Society - Spring Meeting, May 2014, Lille, France (poster presentation).
 - M. Enculescu, A. Evanghelidis, **C. Busuioc**, N. Preda, E. Matei, C. Florica, A. Costas, M. Oancea, I. Enculescu; *Electrospun Dye-Doped Nanofibers with Tuneable Emissive Properties*; Conference of the European Materials Research Society - Spring Meeting, May 2014, Lille, France (poster presentation).
 - **C. Busuioc**, S.I. Jinga, L. Nedelcu, E. Andronescu; *Doped Ba(Zn_{1/3}Ta_{2/3})O₃ Dielectric Ceramics for Microwave Applications*; The 7th International Conference on Advanced Materials, August 2012, Braşov, Romania (poster presentation).
 - L. Nedelcu, **C. Busuioc**, M.G. Banciu; *Terahertz Time-Domain Spectroscopy of Low-Loss Microwave Ceramics*; The 7th International Conference on Advanced Materials, August 2012, Braşov, Romania (poster presentation).
 - **C. Busuioc**, L. Nedelcu, N. Preda, C. Bartha, S.I. Jinga, M.G. Banciu, E. Andronescu; *Synthesis and Optical Properties of Lithium Zinc Vanadate Ceramic Powders*; 11th European Conference on the Applications of Polar Dielectrics, July 2012, Aveiro, Portugal (poster presentation).
 - L. Nedelcu, **C. Busuioc**, P. Ganea, M.G. Banciu; *Terahertz Spectroscopy of Low-Loss Microwave Dielectrics*; 11th European Conference on the Applications of Polar Dielectrics, July 2012, Aveiro, Portugal (poster presentation).
 - M. Ene-Dobre, M.G. Banciu, L. Nedelcu, **C. Busuioc**, H.V. Alexandru; *Linear Dielectric Resonator Antenna Array Based on High K Ceramics*; The 8th General Conference of Balkan Physical Union, July 2012, Constanţa, Romania (oral presentation).
 - **C. Busuioc**, L. Nedelcu, M.G. Banciu, E. Andronescu, S.I. Jinga, N.D. Scarisoreanu, F.C. Dragoi; *BaMg_{1/3}Ta_{2/3}O₃ Thin Films Obtained by PLD or Sol-Gel*; Electroceramics XIII, June 2012, Enschede, Netherlands (oral presentation).
 - L. Nedelcu, **C. Busuioc**, P. Ganea, M.G. Banciu; *Broadband Dielectric Spectroscopy of Ba(X_{1/3}Ta_{2/3})O₃ Complex Perovskites*; Electroceramics XIII, June 2012, Enschede, Netherlands (poster presentation).
 - **C. Busuioc**, B. Vasile, S.I. Jinga, E. Andronescu, L. Nedelcu, M.G. Banciu, A. Ioachim, N.D. Scarisoreanu, M. Dinescu; *Structural and Dielectric Properties of BaMg_{1/3}Ta_{2/3}O₃ Thin Films*; Conference of the European Materials Research Society - Fall Meeting, September 2011, Warsaw, Poland (poster presentation).
 - M.G. Banciu, **C. Busuioc**, I. Anghel, L. Nedelcu, L. Trupina, M. Zamfirescu; *Microwave and Terahertz Periodic Structures for Multiband Applications*; Conference of the European Materials Research Society - Fall Meeting, September 2011, Warsaw, Poland (poster presentation).
 - **C. Busuioc**, E. Andronescu, D. Berger, S.I. Jinga; *Two Approaches to BaMg_{1/3}Ta_{2/3}O₃ Compound: Bulk Ceramics and Thin Films*; 17th Romanian International Conference on Chemistry and Chemical Engineering, September 2011, Sinaia, Romania (oral presentation).
 - **C. Busuioc**, L. Nedelcu, M.I. Toacsan, M.G. Banciu, A. Ioachim, P. Ganea, G. Stoica, S. Jinga, E. Andronescu; *Microwave Dielectric Properties of BaX_{1/3}Ta_{2/3}O₃Complex Perovskites*; 12th International Balkan Workshop on Applied Physics, July 2011, Constanţa, Romania (poster presentation).

- M. Ene-Dobre, M.G. Banciu, L. Nedelcu, G. Stoica, **C. Busuioc**, H. Alexandru; *Microwave Antennas Based on $Ba_{1-x}Pb_xNb_2Ti_5O_{14}$* ; 12th International Balkan Workshop on Applied Physics, July 2011, Constanța, Romania (poster presentation).
- **C. Busuioc**, L. Nedelcu, M.G. Banciu; *BaMg_{1/3}Ta_{2/3}O₃ Material for Dielectric Resonator Antennas*; 13th International Symposium on Microwave and Optical Technology, June 2011, Prague, Czech Republic (oral presentation).
- A. Ioachim, M.I. Toacsan, L. Nedelcu, N.D. Scarisoreanu, S.I. Jinga, E. Vasile, **C. Busuioc**; *Dielectric and Structural Characterization of BaMg_{1/3}Ta_{2/3}O₃ Thin Films Grown by RF-PLD*; 12th Conference of the European Ceramic Society, June 2011, Stockholm, Sweden (oral presentation).
- A. Ioachim, M.I. Toacsan, L. Nedelcu, S.I. Jinga, E. Vasile, **C. Busuioc**, P. Ganea; *High-Ordered BaMg_{1/3}Ta_{2/3}O₃ Dielectric Ceramics for Microwave Applications*; 12th Conference of the European Ceramic Society, June 2011, Stockholm, Sweden (oral presentation).
- **C. Busuioc**, D. Berger, C. Matei, S.I. Jinga, A. Ioachim, B. Vasile, E. Andronescu; *Microwave Tantalum-Based Ceramics Obtained from Nano- or Micro-Starting Materials*; 12th Conference of the European Ceramic Society, June 2011, Stockholm, Sweden (poster presentation).
- L. Nedelcu, N.D. Scarisoreanu, **C. Busuioc**, M.I. Toacsan, M.G. Banciu, A. Ioachim, S. Jinga, M. Dinescu; *Dielectric properties of BaMg_{1/3}Ta_{2/3}O₃ Thin Films Obtained by Radiofrequency Beam Assisted Pulsed Laser Deposition*; Conference of the European Materials Research Society - Spring Meeting, May 2011, Nice, France (poster presentation).
- S. Jinga, E. Andronescu, **C. Jinga**, D. Berger, C. Matei; *Two Approaches of the Obtaining of Doped BaMg_{1/3}Ta_{2/3}O₃ Microwave Ceramics*; 3rd International Congress on Ceramics, November 2010, Osaka, Japan (poster presentation).
- **C. Jinga**, E. Andronescu, D. Berger, C. Matei, S. Jinga; *Tantalum-Based Ceramics for Microwave Applications*; Second Workshop on Size-Dependent Effects in Materials for Environmental Protection and Energy Application, September 2010, Nessebar, Bulgaria (poster presentation).
- **C. Jinga**, E. Andronescu, C. Jinga, C. Matei, D. Berger, S. Jinga, A. Ioachim; *Synthesis and Characterization of Pure and Doped BaMg_{1/3}Ta_{2/3}O₃ Nanopowders*; 12th Annual Conference YUCOMAT, September 2010, Herceg Novi, Montenegro (poster presentation).
- S. Jinga, **C. Jinga**, E. Andronescu, C. Jinga, A. Ioachim; *Dielectric Properties of Doped BaMg_{1/3}Ta_{2/3}O₃ Ceramics*; 12th International Conference on Modern Materials and Technologies, 12th International Ceramics Congress, June 2010, Montecatini Terme, Italy (poster presentation).
- S. Jinga, E. Andronescu, **C. Jinga**, A. Ioachim, L. Nedelcu, M.G. Banciu; *BMT Microwave Ceramics*; 16th Romanian International Conference on Chemistry and Chemical Engineering, September 2009, Sinaia, Romania (poster presentation).
- S. Jinga, E. Andronescu, **C. Jinga**, A. Ioachim, L. Nedelcu, G. Banciu; *Synthesis, Microstructure and Microwave Dielectric Properties of BaMg_{1/3}Ta_{2/3}O₃ Ceramics*; 10th International Balkan Workshop on Applied Physics, July 2009, Constanța, Romania (poster presentation).
- S. Jinga, E. Andronescu, **C. Jinga**, A. Ioachim, L. Nedelcu, M.G. Banciu; *Synthesis, Microstructure and Microwave Dielectric Properties of BaMg_{1/3}Ta_{2/3}O₃ Ceramics*; 11th International Conference of the European Ceramic Society, June 2009, Krakow, Poland (poster presentation).
- E. Andronescu, S.I. Jinga, **C. Jinga**, A.D. Busuioc, A. Ioachim; *Complex Perovskite BaX_{1/3}Ta_{2/3}O₃ Ceramics for Microwave Communications*; International Conference on Corrosion and Modern Technologies in the Military, November 2008, Bucharest, Romania (poster presentation).

Honours and awards

- Gold Medal for *Electrochromic Device Based on Transparent and Flexible Electrodes Obtained through Electrospinning and Polyaniline Electrodeposition*; E. Matei, **C. Busuioc**, A.I. Evanghelidis, M.M. Enculescu, N.R. Preda, C.F. Florica, L.A. Costas, M. Oancea, I.M. Enculescu; 7th European Exhibition of Creativity and Innovation EUROINVENT, 2015, Iasi, Romania.
- Bronze Medal for *Process for Obtaining Predefined Micronic Areas of Zinc Oxide Structures through Autocatalytic Deposition*; C.F. Florica, N.R. Preda, M.M. Enculescu, A.I. Evanghelidis, L.A. Costas, M. Oancea, **C. Busuioc**, E. Matei, I.M. Enculescu; 7th European Exhibition of Creativity and Innovation EUROINVENT, 2015, Iasi, Romania.
- Excellence Diploma and Gold Medal with Special Mention for *Thermochromic Device Based on Transparent and Flexible Electrodes Obtained by Electrospinning*; **C. Busuioc**, A.I. Evanghelidis, M.M. Enculescu, E. Matei, N.R. Preda, C.F. Florica, L.A. Costas, M. Oancea, I.M. Enculescu; International Exhibition of Research, Innovation and Inventions PRO INVENT, Edition XIII, 2015, Cluj-Napoca, Romania.
- Excellence Diploma and Gold Medal for *Process for Obtaining Predefined Micronic Areas of Zinc Oxide Structures through Autocatalytic Deposition*; C.F. Florica, N.R. Preda, M.M. Enculescu, A.I. Evanghelidis, L.A. Costas, M. Oancea, **C. Busuioc**, E. Matei, I.M. Enculescu; International Exhibition of Research, Innovation and Inventions PRO INVENT, Edition XIII, 2015, Cluj-Napoca, Romania.
- Gold Medal for *INFIM SPIN 1.0*; I. Enculescu, A. Evanghelidis, **C. Busuioc**, N. Preda, E. Matei, M.

Enculescu, C. Florica, A. Costas, M. Oancea, A. Gavrilă, M. Cioca, L. Culea; 6th European Exhibition of Creativity and Innovation EUROINVENT, 2014, Iasi, Romania.

- Award for Best Design for *INFIM SPIN 1.0*; I. Enculescu, A. Evangelidis, **C. Busuioc**, N. Preda, E. Matei, M. Enculescu, C. Florica, A. Costas, M. Oancea, A. Gavrilă, M. Cioca, L. Culea; 6th European Exhibition of Creativity and Innovation EUROINVENT, 2014, Iasi, Romania.
- Excellence Diploma for Promoting Creativity for *Electrospinning INCFM*; A. Evangelidis, **C. Busuioc**, N. Preda, E. Matei, M. Enculescu, C. Florica, A. Costas, M. Oancea, I. Enculescu; 6th European Exhibition of Creativity and Innovation EUROINVENT, 2014, Iasi, Romania.
- Excellence Diploma and Gold Medal for *Process for Obtaining Zinc Oxide Fibers, with Submicronic Diameters, Using Poly(methyl methacrylate) Solutions, through Electrospinning*; A. Evangelidis, **C. Busuioc**, N. Preda, E. Matei, M. Enculescu, C. Florica, A. Costas, M. Oancea, I. Enculescu; International Exhibition of Research, Innovation and Inventions PRO INVENT, Edition XII, 2014, Cluj-Napoca, Romania.

Memberships

- Member of *European Ceramic Society, Romanian Ceramic Society* and *Romanian Chemical Society*.