

Cadrul didactic: Prof. Dr. Ing. Cristina BUSUIOC

L I S T A

lucrărilor științifice în domeniul disciplinei(lor) predate

A. Teza de doctorat

Ceramici pentru Microunde; Domeniul Inginerie Chimică, 2012, Universitatea POLITEHNICA din București.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. **C. Busuioc**; Structuri Unidimensionale Obținute prin Electrofilare; Politehnica Press, București, România, 2023, ISBN: 978-606-9608-48-7.

2. O.C. Parvulescu, G. Isopencu, **C. Busuioc**, C. Raducanu, A. Mocanu, I. Deleanu, A. Stoica-Guzun; *Antimicrobial Bacterial Cellulose Composites as Textile Materials* (Chapter 17); in *Antimicrobial Textiles from Natural Resources* (Editor: I.H. Mondal); Woodhead Publishing, The Textile Institute Book Series (2021) 513–556.

3. M. Stroescu, G. Isopencu, **C. Busuioc**, A. Stoica-Guzun; *Antimicrobial Food Pads Containing Bacterial Cellulose and Polysaccharides* (Chapter 44); in *Cellulose-Based Superabsorbent Hydrogels* (Editor: I.H. Mondal); Springer, Polymers and Polymeric Composites: A Reference Series 3 (2019) 1303–1338.

4. E. Matei, M. Enculescu, N. Preda, C. Florica, A. Costas, **C. Busuioc**, M.E. Toimil Molares, V. Kuncser, I. Enculescu; *Metallic Nanowires and Nanotubes Prepared by Template Replication* (Chapter 6); in *Size Effects in Nanostructures: Basics and Applications* (Editors: V. Kuncser, L. Miu); Springer, Springer Series in Materials Science 205 (2014) 137–165.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. I.M.A. Oprica, M. Beregoi, G.F. Popescu-Pelin, I. Constantinoiu, M. Bacalum, C.I. Draghici, S.I. Jinga, **C. Busuioc**; *Development of New Scaffolds for Bone Substitution by Electrospinning and Laser Ablation*; Journal of Materials Research and Technology 35 (2025) 6087–6101.

2. I.M. Deleanu, **C. Busuioc**, M. Deleanu, A. Stoica-Guzun, M. Rotaru, V.A. Ștefan, G. Isopencu; *Antimicrobial Carboxymethyl Cellulose-Bacterial Cellulose Composites Loaded with Green Synthesized ZnO and Ag Nanoparticles for Food Packaging*; International Journal of Molecular Sciences 25 (2024) 12890.

3. I.M. Deleanu, E. Grosu, A. Ficai, L.M. Ditu, L. Motelica, O.C. Oprea, G. Gradisteanu Pircalabioru, M. Sonmez, **C. Busuioc**, R. Ciocoiu, V.I. Antoniac; *New Antimicrobial Materials Based on Plasticized Polyvinyl Chloride for Urinary Catheters: Preparation and Testing*; Polymers 16 (2024) 3028.

4. M. Khikani, G.O. Isopencu, I.M. Deleanu, S.I. Jinga, **C. Busuioc**; *Green Synthesis of Nanoparticle-Loaded Bacterial Cellulose Membranes with Antibacterial Properties*; Journal of Composites Science 8 (2024) 475.

5. A.M.R. Musat, R. Nechita, N.D. Oprea, A.E. Sprinceana, G.O. Isopencu, A. Banciu, S.I. Jinga, **C. Busuioc**; *Cerium and Silver Co-Substituted Bioglass Coatings Deposited by Laser Ablation for Improving the Behaviour of Bioinert Implants*; *Materials Letters* 365 (2024) 136439.
6. M. Beregoi, A. Enache, D. Oprea, M. Enculescu, C. Ciobotaru, **C. Busuioc**, I. Enculescu; *PEDOT:PSS Based Electrospun Nanofibres Used as Trigger for Fibroblasts Differentiation*; *Smart Materials and Structures* 33 (2024) 015009.
7. I. Constantinoiu, C. Viespe, **C. Busuioc**, S.I. Jinga; *ZnO Thin Films by Pulsed Laser Deposition with Applications in Sensors*; *University POLITEHNICA of Bucharest Scientific Bulletin B* 86 (2024) 119–134.
8. A.M. Olteanu, A.I. Nicoara, V.A. Surdu, G.O. Isopencu, D.D. Banciu, S.I. Jinga, **C. Busuioc**, I. Constantinoiu; *Antibacterial Activity of Tin-Doped Zinc Oxide Thin Films Deposited by Laser Ablation*; *Ceramics International* 50 (2024) 3497–3510.
9. R. Lavric, C. Vreme, **C. Busuioc**, G.O. Isopencu, A.I. Nicoara, O.C. Oprea, D.D. Banciu, I. Constantinoiu, A.M.R. Musat; *The Effect of Silver and Samarium on the Properties of Bioglass Coatings Produced by Pulsed Laser Deposition and Spin Coating*; *Journal of Functional Biomaterials* 14 (2023) 560.
10. A.N. Trandas, A. Trifan, A.D. Ungureanu, A. Dusciuc, M. Opris, O.C. Milea, A. Banciu, I. Constantinoiu, **C. Busuioc**, G.O. Isopencu; *Properties of Europium and Silver Doped Bioglass Thin Films Obtained by Two Deposition Methods: Biointerfaces for Bioinert Implants*; *Materials Chemistry and Physics* 309 (2023) 128396.
11. C. Plocon, A. Evangelidis, M. Enculescu, G. Isopencu, O. Oprea, M. Bacalum, M. Raileanu, S. Jinga, **C. Busuioc**; *Development and Characterization of Electrospun Composites Built on Polycaprolactone and Cerium-Containing Phases*; *International Journal of Molecular Sciences* 24 (2023) 14201.
12. 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.
13. A.E. Alecu, S.A. Girjoaba, M. Beregoi, M. Bacalum, M. Raileanu, S.I. Jinga, **C. Busuioc**; *Synthesis and Evaluation of Composite Scaffolds Based on PVDF Fibres and Mineral Powders for Medical Applications*; *Romanian Journal of Materials* 53 (2023) 212–221.
14. A.E. Alecu, S.A. Girjoaba, M.M. Enculescu, **C. Busuioc**; *Comparative Study on TiO₂ Nanoparticles Obtained by Precipitation and Sol-Gel*; *University POLITEHNICA of Bucharest Scientific Bulletin B* 85 (2023) 117–128.
15. **C. Busuioc**, G.O. Isopencu, I.M. Deleanu; *Bacterial Cellulose-Polyvinyl Alcohol Based Complex Composites for Controlled Drug Release*; *Applied Sciences* 13 (2023) 1015.
16. 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.
17. **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.
18. **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.

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20. 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.
21. 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*; *Boletin de la Sociedad Espanola de Ceramica y Vidrio* 61 (2022) 184–190.
22. 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.
23. 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.
24. 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.
25. R. Marinescu, D. Laptoiu, I.C. Stancu, **C. Busuioc**; *Late Failure of a Polyethylene Unicompartmental Knee Insert-Retrieval Analysis Protocol and Results*; *Plastic Materials* 58 (2021) 187–196.
26. 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.
27. 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.
28. P. Chipurici, A. Vlaicu, I. Calinescu, M. Vinatoru, **C. Busuioc**, A. Dinescu, A. Ghebur, 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.
29. 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.
30. N. Zohreh, Z. Rastegaran, S.H. Hosseini, M. Akhlaghi, C. Istrate, **C. Busuioc**; *pH-Triggered Intracellular Release of Doxorubicin by a Poly(Glycidyl Methacrylate)-Based Double-Shell Magnetic Nanocarrier*; *Materials Science and Engineering C* 118 (2021) 111498.
31. 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.
32. E. Rusen, R. Somoghi, **C. Busuioc**, A. Diacon; *Hydrophilic Modification of Polyvinyl Chloride with Polyacrylic Acid Using ATRP*; *RSC Advances* 10 (2020) 35692–35700.
33. 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.

34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. **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.
40. 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.
41. V. Dinca, A. Mocanu, G. Isopencu, **C. Busuioc**, S. Brajnicov, A. Vlad, M. Icriverzi, A. Roseanu, M. Dinescu, M. Stroescu, A. Stoica-Guzun, M. Sucheana; *Biocompatible Pure ZnO Nanoparticles-3D Bacterial Cellulose Biointerfaces with Antibacterial Properties*; *Arabian Journal of Chemistry* 13 (2020) 3521–3533.
42. 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.
43. 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.
44. 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.
45. S.I. Jinga, A.I. Zamfirescu, G. Voicu, M. Enculescu, A. Evangelidis, **C. Busuioc**; *PCL-ZnO/TiO₂/HAp Electrospun Composite Fibres with Applications in Tissue Engineering*; *Polymers* 11 (2019) 1793.
46. **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.
47. 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.
48. 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.
49. 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*

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51. 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.

52. 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 49 (2019) 102–110.

53. 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.

54. 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.

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61. **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.

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63. 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.

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67. **C. Busuioc**, A. Evanghelidis, M. Enculescu, I. Enculescu; *Optical and Photocatalytic Properties of Electrospun ZnO Fibers*; Digest Journal of Nanomaterials and Biostructures 10 (2015) 957–965.

68. **C. Busuioc**, V.A. Surdu, E. Andronescu; *Morphological and Optical Investigation of CuO Fibers Prepared via Electrospinning*; University POLITEHNICA of Bucharest Scientific Bulletin B 77 (2015) 3–12.

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

(a) Reviste

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(b) Selecție cu maximum 20 lucrări în volume de conferințe

1. L. Nedelcu, **C. Busuioc**, M. G. Banciu, R. Ramer; *Ba(X_{1/3}Ta_{2/3})O₃ Complex Perovskites for Microwave and Millimeter-Wave Applications*; Proceedings of the International Semiconductor Conference 2 (2012) 303–306, Sinaia, România.

E. Brevete obținute în întreaga activitate

1. **C. Busuioc**, A. Evanghelidis, M. Enculescu, E. Matei, N. Preda, C. Florica, A. Costăș, M. Oancea, I. Enculescu; *Dispozitiv Termocromic Bazat pe Electrozi Transparenți și Flexibili, Obținuți prin Electrofilare*; Institutul Național de Cercetare - Dezvoltare pentru Fizica Materialelor, RO-132440-B1, 30 Iunie 2023.

2. **C. Busuioc**, C.D. Ghițulică, A. Stoica, M. Stroescu, G. Voicu, S.I. Jinga; *Procedeu pentru Obținerea de Structuri Poroase pe Bază de Pirofosfat de Utilizate ca Implanturi Minerale Dedicat Reparației și Regenerării Osoase*; Universitatea POLITENICA din București, RO-135510-B1, 28 Februarie 2023.

3. C. Florica, N. Preda, M. Enculescu, A. Evanghelidis, A. Costăș, M. Oancea, **C. Busuioc**, E. Matei, I. Enculescu; *Procedeu de Obținere a Unor Structuri Micronice de Oxid de Zinc prin Depunere Autocatalitică pe Arii Predefinite*; Institutul Național de Cercetare - Dezvoltare pentru Fizica Materialelor, RO-130857-B1, 27 Noiembrie 2020.

4. E. Matei, **C. Busuioc**, A. Evanghelidis, M. Enculescu, N. Preda, C. Florica, A. Costăș, M. Oancea, I. Enculescu; *Dispozitiv Electrochromic Bazat pe Electrozi Transparenți și Flexibili, Obținuți prin Electrofilare și Electrodepunere de Polianilină*; Institutul Național de Cercetare - Dezvoltare pentru Fizica Materialelor, RO-131131-B1, 30 Iunie 2020.

5. N. Preda, C. Florica, M. Enculescu, I. Zgură, M. Socol, A. Evanghelidis, A. Costăș, M. Oancea, **C. Busuioc**, E. Matei, I. Enculescu; *Procedeu de Obținere prin Depunere Chimică a Unor Filme Nanostructurate Tip Rețele Formate din Structuri Monodisperse de Oxid de Zinc*; Institutul Național de Cercetare - Dezvoltare pentru Fizica Materialelor, RO-130846-B1, 30 Iunie 2020.

6. A. Evanghelidis, **C. Busuioc**, E. Matei, M. Enculescu, N. Preda, C. Florica, A. Costăș, M. Oancea, I. Enculescu; *Procedeu de Obținere de Micro- și Nanofibre Polimerice prin Electrospinning*; Institutul Național de Cercetare - Dezvoltare pentru Fizica Materialelor, RO-131565-B1, 27 Aprilie 2018.