

LISTA DE LUCRĂRI

Candidat: Arădoaei P. Mihaela - Doctor în inginerie electrică din 27.03.2012 conform Ordinului Ministrului nr. 3639 din data de 27.03.2012

A. Teza de doctorat.

1. Contribuții privind caracterizarea biocompozitelor reciclate cu destinația elctrotehnică, susținută în data de 24.10.2011, Universitatea Tehnică "Gheorghe Asachi" din Iasi, domeniul Inginerie Electrică, conducător de doctorat Prof. Dr. Ing. Ciobanu Romeo Cristian

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCISIS.

1. **Mihaela Aradoaei**, Cristina Mihaela Schreiner, Romeo Cristian Ciobanu, *Noțiuni de calitate și fiabilitate în ingineria electrică*, Editura PIM, Iași, 2025, ISBN 978-606-13-9513-2, pp. 170.
2. Romeo Cristian Ciobanu, Cristina Mihaela Schreiner, **Mihaela Aradoaei**, *Calitate Fezabilitate Fiabilitate Mentenanță- Aplicații practice în ingineria electrică*, Editura PIM, Iași, 2025, ISBN 978-606-13-9512-5, pp. 212.
3. **Mihaela Aradoaei**, Romeo Cristian Ciobanu, *Integrarea sistemelor hardware în clădiri inteligente din punct de vedere energetic*, Editura PIM, Iasi, 2025, ISBN 978-606-13-9514-9, pp. 618.
4. **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Chimie - Elemente de electrochimie – Îndrumar de laborator, Teste și Probleme, Editura PIM, Iași, 2023, ISBN 978-606-13-7818-0, pp. 221.
5. Romeo Cristian Ciobanu, **Mihaela Aradoaei**, Elemente de Electrochimie, Editura PIM, Iași, 2023, ISBN 978-606-13-7819-7, pp. 232.
6. Aradoaei Sebastian Teodor, **Mihaela Aradoaei**, Tehnologii inovative de reciclare și biocompozitare a materialelor din plastic și biomasă, Editura PIM, Iasi, 2023, ISBN 978-606-13-7816-6, pp. 323 .
7. Aradoaei Sebastian Teodor, **Mihaela Aradoaei**, Realizarea biocompozitelor din materiale platice și biomasă, Editura PIM, Iasi, 2023, ISBN 978-606-13-7817-3, pp. 199.
8. **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Aradoaei Sebastian Teodor, Caracterizarea biocompozitelor reciclate cu destinația electrotehnică, Editura Pim Iași, 2019, ISBN978-606-13-5040-7, pp.192.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Mihaela Aradoaei**, Defectoscopie și diagnoză-suport de curs, format electronic la <https://edu.tuiasi.ro/course/view.php?id=3600> - 197 pagini.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. **Mihaela Aradoaei**, Alina Ruxandra Caramitu, Magdalena Lungu, George Ursan, Romeo Cristian Ciobanu, Magdalena Aflori and Andrian Parfeni, Thermoplastic Recycling of WEEE Carcasses with the Incorporation of Talc, Fly Ash, and Elastomers for Composites with Electromagnetic Interference Shielding Characteristics for Electric Car Components, *Polymers Journal* 2025, Volume 17, Issue 17, 2394, DOI:10.3390/polym17172394, WOS:001569728100001.
2. **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Cristina Mihaela Schreiner, Gheorghe Grigoras, and Razvan Petru Livadariu, BENEFIT: An Energy Management Platform for Smart and Energy Efficient Buildings, *Energies Journal* 2025, Volume 18, Issue 17, 4542, DOI:10.3390/en18174542, WOS:001569696500001.
3. Romeo Cristian Ciobanu, Magdalena Aflori, Cristina Mihaela Schreiner, Mihaela Aradoaei and Dorel Bunciuanu, Silicone Composites with Electrically Oriented Boron Nitride Platelets and Carbon Microfibers for Thermal Management of Electronics, *Polymers Journal* 2025, Volume 17, Issue 2, 204, DOI:10.3390/polym17020204, WOS:001403883400001.
4. Alina Ruxandra Caramitu, Magdalena Valentina Lungu, Romeo Cristian Ciobanu, Ioana Ion, Eduard Marius Lungulescu, Gabriela Beatrice Sbarcea, Virgil Emanuel Marinescu, Sebastian Teodor Aradoaei, Mihaela Aradoaei, Raducu Machidon, Composites from Recycled HDPE and ZnO Nanopowder with Improved Insulation and Weathering Features for Cable Jacketing Applications, *Polymers Journal* 2025, Volume 17, Issue 14, 204, DOI:10.3390/polym17141987, WOS:001539796900001.
5. Alexandru Florentin Trandabat, Romeo Cristian Ciobanu, Oliver Daniel Schreiner, Mihaela Aradoaei and Sebastian Teodor Aradoaei, Manufacturing of TiO₂, Al₂O₃ and Y₂O₃ Ceramic Nanotubes for Application as Electrodes for Printable Electrochemical Sensors, *Crystals Journal* 2024, Volume 14, Issue 5, 454, DOI:10.3390/cryst14050454, WOS:001233493200001.
6. Romeo Cristian Ciobanu, Mihaela Aradoaei, Alina Ruxandra Caramitu, Magdalena Valentina Lungu, Oliver Daniel Schreiner and Ioana Ion, Composite Paints with High Content of Metallic Microparticles for Electromagnetic Shielding Purposes, *Coatings Journal* 2024, Volume 14, Issue 7, 874, DOI:10.3390/coatings14070874, WOS:001276490800001.
7. Alina Ruxandra Caramitu, Romeo Cristian Ciobanu, Mihaela Aradoaei, Magdalena Valentina Lungu, Nicoleta Oana Nicula and Eduard Marius Lungulescu, Endurance to Multiple Factors of Water-Based Electrically Conductive Paints with Metallic Microparticles, *Coatings Journal* 2024, Volume 14, Issue 8, 1016, DOI:10.3390/coatings14081016, WOS:001305853800001.
8. Romeo Cristian Ciobanu, Cristina Schreiner, Alina Ruxandra Caramitu, Sebastian Teodor Aradoaei, **Mihaela Aradoaei**, Sustainability of the Technology for Obtaining Thermoplastic Building Materials from Non-Recyclable Mixed Plastic-Paper Packaging Waste, *Sustainability Journal* 2024, Volume 16, Issue 8, 3430, DOI: 10.3390/su16083430, WOS:001210274700001.
9. Romeo Cristian Ciobanu and **Mihaela Aradoaei**, Techniques and Instruments for Assessing and Reducing Risk of Exposure to Nanomaterials in Construction, Focusing on Fire-Resistant Insulation Panels Containing Nanoclay, *Nanomaterials Journal* 2024, Volume 14, Issue 18, 1470, DOI: 10.3390/nano14181470, WOS:001324002200001.

10. Romeo Cristian Ciobanu, **Mihaela Aradoaei** and Cristina Schreiner, Technology for Obtaining Sintered Components with Tailored Electromagnetic Features by Selective Recycling of Printed Circuit Boards, Crystals Journal 2024, Volume 14, Issue 9, 820, DOI: 10.3390/cryst14090820, WOS:001323873700001.
11. Alina Ruxandra Caramitu, Magdalena Valentina Lungu, Romeo Cristian Ciobanu, **Mihaela Aradoaei**, Eduard Marius Lungulescu and Virgil Marinescu, Comparative Analysis of Dielectric Behavior under Temperature and UV Radiation Exposure of Insulating Paints for Electrical Equipment Protection—The Necessity of a New Standard?, Coatings Journal 2024, Volume 14, Issue 9, 1194, DOI: 10.3390/coatings14091194, WOS:001323312500001.
12. Alina Ruxandra Caramitu, Ioana Ion, Mihai Marin, Adriana Mariana Bors, Cristian Romeo Ciobanu, Cristina Schreiner, **Mihaela Aradoaei**, Characterization of Some Functional Polymeric Composites in a Synergistic Regime of Protection at Electromagnetic Shielding and Electrostatic Transfer, Revista Materiale Plactice, 2024, Volumul: 61, nr. 2, pp 75-89, DOI: 10.37358/MP.24.2.5720, WOS:001266770600006.
13. Alina Ruxandra Caramitu, Cristian Romeo Ciobanu, Lungu Marinela Valentina, Lungulescu Eduard Marius, Cristina Schreiner, **Mihaela Aradoaei**, Adriana Mariana Bors, Rusu Traian, Polymeric Protective Films as Anticorrosive Coatings-Environmental Evaluation, Polymers Journal 2024, Volumul: 16, Issue 15, 2192, DOI: 10.3390/polym16152192, WOS:001286969000001.
14. Sebastian Teodor Aradoaei, Alina Mirela Constantin, Lucian Alexandru Constantin, **Mihaela Aradoaei**, Romeo Cristian Ciobanu, A Sustainability Study upon Manufacturing Thermoplastic Building Materials by Integrating Chicken Feather Fibers with Plastic Waste, Sustainability Journal 2024, Volume 16, Issue 21, 9243, DOI: 10.3390/su16219243, WOS:001352061000001.
15. Cristian Romeo Ciobanu, **Mihaela Aradoaei**, George Andrei Ursan, Thermoplastic Composite Hot-Melt Adhesives with Metallic Nano-Particles for Reversible Bonding Techniques Utilizing Microwave Energy, Polymers Journal 2024, Volumul: 16, Issue 24, 3496, DOI: 10.3390/polym16243496, WOS: 001383942600001.
16. Angela Daniela La Rosa, Clara Valente, **Mihaela Aradoaei**, Environmental, economic, and social life cycle assessment in the polymer composites sector, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEI63510.2024.10758166, indexat IEEE Xplore.
17. Sebastian Teodor Aradoaei, Ciobanu Romeo, Mirela Popa, Alexandru Chirica, **Mihaela Aradoaei**, Simulation Of Drying And Disinfection Technology Using Microwave Energy, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEI63510.2024.10758175, indexat IEEE Xplore.
18. **Mihaela Aradoaei**, Sebastian Teodor Aradoaei, Alexandru Chirica, Denisa Nicoleta Iordachescu, The Dielectric Characteristics of Thermoplastics Nanocomposite Materials with Ferrites, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEI63510.2024.10758181, indexat IEEE Xplore.
19. Marius Paulet, **Mihaela Aradoaei**, Ciobanu Romeo, Monica Dumitrache, Use Of The Labview Program To Process Specific Signals For Piezoelectric Sensors, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEI63510.2024.10758015, indexat IEEE Xplore.
20. Oliver Schreiner, Alexandru Trandabat, **Mihaela Aradoaei**, Raducu Machidon, Electrochemical Characteristics of Electrodes Based on Nanocarbon, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEI

- 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758100, indexat IEEE Xplore.
21. Oliver Schreiner, Alexandru Trandabat, **Mihaela Aradoaei**, Raducu Machidon, Constantin Vlad Chiriac Electrochemical Sensor For Carbon Monoxide Testing Based On Carbon Nanofiber - Conductive Polymer Electrodes, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEi 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758086, indexat IEEE Xplore.
 22. Alexandru Trandabat, Oliver Schreiner, **Mihaela Aradoaei**, Constantin Vlad Chiriac Physico-Chemical Analysis of Electrodes Based on Nanocarbon, The 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEi 2024), 17-19 October 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758082, indexat IEEE Xplore.
 23. **Mihaela Aradoaei**, Romeo C. Ciobanu, Cristina Schreiner, Andrei G. Ursan, Elena G. Hitruc, Magdalena Aflori, Thermoplastic Electromagnetic Shielding Materials from the Integral Recycling of Waste from Electronic Equipment, Polymers Journal 2023, Volume 15, Issue 19, 3859, DOI: 10.3390/polym15193859, WOS: 001083084200001.
 24. **Mihaela Aradoaei**, Andreea Maria Lucaci, Romeo Cristian Ciobanu, Cristina Schreiner, Bogdan George Rusu, Gabriela Elena Hitruc, Magdalena Aflori, Marius Paulet, Alina Ruxandra Caramitu, Adriana Mariana Bors, Piezoelectric thin Film Composites with BaTiO₃ for Microelectronics, Revista de Materiale Plastice, 2023, vol.:60, Issue 4, pp. 10-130, DOI:10.37358/MP.23.4.5683, WOS:001143872900006.
 25. **Mihaela Aradoaei**, Romeo C. Ciobanu, Cristina Schreiner, Marius Paulet, Alina R. Caramitu, Jana Pintea, Mihaela Baibarac, Three-Dimensional Printable Flexible Piezoelectric Composites with Energy Harvesting Features, Polymers Journal 2023, Volume 15, Issue 11, 2548, DOI: 10.3390/polym15112548, WOS:001006230400001.
 26. Alina R. Caramitu, Romeo C. Ciobanu, Ioana Ion, Cristina M. Schreiner, **Mihaela Aradoaei**, Violeta Tsakiris, Jana Pintea, Virgil Marinescu, Flexible Electromagnetic Shielding Nano-Composites Based on Silicon and NiFe₂O₄ Powders, Polymers Journal 2023, Volume 15, Issue 11, 2447, DOI: 10.3390/polym15112447, WOS:001005724100001.
 27. Romeo C. Ciobanu, Radu F. Damian, Cristina M. Schreiner, **Mihaela Aradoaei**, Alexandru Sover, Askok M. Raichur, Simulation of Dielectric Properties of Nanocomposites with Non-Uniform Filler Distribution, Polymers Journal 2023, Volume 15, Issue 7, 1636, DOI: 10.3390/polym15071636, WOS:000970081800001.
 28. Romeo C. Ciobanu, **Mihaela Aradoaei**, Alina R. Caramitu, Ioana Ion, Cristina M. Schreiner, Violeta Tsakiris, Virgil Marinescu, Elena G. Hitruc, Magdalena Aflori, Special Packaging Materials from Recycled PET and Metallic Nano-Powders, Polymers Journal 2023, Volume 15, Issue 15, 3161, DOI: 10.3390/polym15153161, WOS:001046370500001.
 29. Epure Elena-Luiza, Cojocaru Florina Daniela, **Aradoaei Mihaela**, Ciobanu Romeo Cristian, Dodi Gianina, Exploring the Surface Potential of Recycled Polyethylene Terephthalate Composite Supports on the Collagen Contamination Level, Polymers Journal 2023, Volume 15, Issue 3, 776, DOI: 10.3390/polym15030776, WOS:000933750300001.
 30. Romeo C. Ciobanu, Cristina M. Schreiner, **Mihaela Aradoaei**, Gabriele E. Hitruc, Bogdan G. Rusu, Magdalena Aflori, Characteristics of Composite Materials of the Type: TPU/PP/BaTiO₃ Powder for 3D Printing Applications, Polymers Journal 2023, Volume 15, Issue 1, 73, DOI: 10.3390/polym15010073, WOS: 000909131900001.
 31. **Mihaela Aradoaei**, Oliver Schreiner, Andreea Maria Lucaci, Vlad Morosanu, Georgiana Patrascu, Adrian Saridache, Cristina Schreiner, Sebastian Teodor Aradoaei, Testing the Interaction of Electromagnetic Radiation with Nano/Micro-Conductive

- Composite Material, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), 11-03 October 2023, Chisinau, Moldova, DOI: 10.1109/SIELMEN59038.2023.10290788, indexat IEEE Xplore.
32. **Mihaela Aradoaei**, Oliver Schreiner, Ionel Alexa, Alin Olteanu, Madalina Ancuta Pintilei, Romeo Cristian Ciobanu, Sebastian Teodor Aradoaei, Simulating the Interaction of Electromagnetic Radiation with Matter, Within Nano/Micro-Conductive Composite, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), 11-03 October 2023, Chisinau, Moldova, DOI: 10.1109/SIELMEN59038.2023.10290731, indexat IEEE Xplore.
 33. Dodi Gianina, Cojocaru Florina-Daniela, Popescu Diana, **Aradoaei Mihaela**, Ciobanu Cristian Romeo, Mihai Cosmin Teodor, Comparative Terahertz and ATR-FTIR Spectroscopy Assessment of Protein Based Contaminants on Recycled PET Composite Material, AIP Conference Proceedings, Volume 2601, issue 1, June 2023, Article number 020026, DOI: 10.1063/5.0130478, indexat Scopus.
 34. Alina Ruxandra Caramitu, Ioana Ion, Adriana Mariana Bors, Cristian Romeo Ciobanu, Cristina Schreiner, **Mihaela Aradoaei**, Ana-Maria Daniela Caramitu, Physico-chemical characterization of paint films with electromagnetic properties, Revista Materiale Plactice, 2022, Volumul: 59, nr. 2, pp 9-23, DOI: 10.37358/MP.22.2.5580, WOS:000831634900002.
 35. Gianina Dodi, Diana Popescu, Florina Daniela Cojocaru, **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Cosmin Teodor Mihai, Use of Fourier-Transform Infrared Spectroscopy for DNA Identification on Recycled PET Composite Substrate, Applied Science 2022, Volume 12, Issue 9, 4371, DOI:10.3390/app12094371, WOS:000795255500001.
 36. Constantin Mirela Alina, Constantin Lucian Alexandru, Aradoaei Sebastian, **Aradoaei Mihaela**, Bratu Mihai, Vasile Ovidiu, Acoustic Properties of a New Composite Material Obtained from Feather Flour and Recycled Polypropylene, Revista de Materiale Plastice, 2022, vol.:58, pp. 84-93, DOI:10.37358/MP.21.4.5534, WOS:000744132400004.
 37. **Mihaela Aradoaei**, Andreea Maria Lucaci, Sebastian Teodor Aradoaei, Cristina Mihaela Schreiner, Romeo Cristian Ciobanu, Obtaining Nanocomposite Films With Predefined Thermal Conductivity, With Controlled Anisotropy, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iasi, DOI: 10.1109/EPE56121.2022.9959825, indexat IEEE Xplore.
 38. **Mihaela Aradoaei**, Andreea Maria Lucaci, Sebastian Teodor Aradoaei, Cristina Mihaela Schreiner, Maria Madalina Nastasache, Composites with Nano Conductive Channels Architecture Uniformly Distributed Through the Thickness of the Material and Oriented in the Magnetic Field, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iasi, DOI: 10.1109/EPE56121.2022.9959798, indexat IEEE Xplore.
 39. Alexandru Trandabat, Alexandru Arcire, Romeo Cristian Ciobanu, Olga Plopa, **Mihaela Aradoaei**, Alin Olteanu, Mosneagu Andrei Adriana Mona, Design and modeling considerations for developing a millimolar Oxalic Acid detection sensor based on screen-printed carbon electrode and methilbenzenpirol, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iasi, DOI: 10.1109/EPE56121.2022.9959778, indexat IEEE Xplore.
 40. Madalina Ancuta Pintilei, Ileana Ursu, Sebastian Pascu, Cristina Mihaela Schreiner, **Mihaela Aradoaei**, Alin Olteanu, Compression Of Acquired Data In Order To Make Transmission And Processing More Efficient, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iasi, DOI: 10.1109/EPE56121.2022.9959083, indexat IEEE Xplore.

41. Ileana Ursu, Alin Olteanu, Vlad Morosanu, Cristina Mihaela Schreiner, **Mihaela Aradoaei**, Technical Analysis Regarding The Implementation Of A Building Management System, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iași, DOI: 10.1109/EPE56121.2022.9959794, indexat IEEE Xplore.
42. Davide Fabiani, Romeo Ciobanu, **Mihaela Aradoaei**, Piezoelectric Nanofibrous Composite Materials for Energy and Electronic Applications, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 Octombrie EPE 2022 - Iași, DOI: 10.1109/EPE56121.2022.9959737, indexat IEEE Xplore.
43. Alexandru Sover, Vasile Ermolai, Ashok M. Raichur, Romeo Ciobanu, **Mihaela Aradoaei**, Nicolae Lucanu, Feasibility of Producing Core-Shell Filaments through Fused Filament Fabrication, Polymers Journal, 2021, Volume 13, Issue 23, 4253, DOI: 10.3390/polym13234253, WOS:000734564000001.
44. Megha Sahu, Lakshmi Narasimhan, Ashok M. Raichur, Alexandru Sover, Romeo C. Ciobanu, Nicolae Lucanu, **Mihaela Aradoaei**, Improving Fracture Toughness of Tetrafunctional Epoxy with Functionalized 2D Molybdenum Disulfide Nanosheets, Polymers Journal, 2021, Volume 13, Issue 24, 4440, DOI: 10.3390/polym13244440, WOS:000737388000001.
45. Luiza Madalina Gradinaru, Mihaela Barbalata Mandru, Mioara Drobota, Magdalena Aflori, Maria Butnaru, Maria Spiridon, Florica Doroftei, **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Stelian Vlad, Composite Materials Based on Iron Oxide Nanoparticles and Polyurethane for Improving the Quality of MRI, Polymers Journal, 2021, Volume 13, Issue 24, 4316, DOI: 10.3390/polym13244316, WOS:000737424800001.
46. V. Stancu, A. Galatanu, M. Enculescu, M. Onea, B. Popescu, P. Palade, **M. Aradoaei**, R. Ciobanu, L. Pintilie, Influences of Dispersions' Shapes and Processing in Magnetic Field on Thermal Conductibility of PDMS-Fe₃O₄ Composites, Materials 2021, Volume 14, Issue 13, 3696, DOI: 10.3390/ma14133696, WOS:000671005800001.
47. Alina Ruxandra Caramitu, Radu Dascalu, Ioana Ion, Violeta Tsakiris, Nicolae Stancu, **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Adriana Mariana Bors, Iosif Lingvay, Obtaining and Characterizing 3D Printable Polymer Based Composites with BaTiO₃ Filler, Revista de Materiale Plastice, 2021, vol.:58, Issue 1, pp. 11-18, DOI:10.37358/MP.21.1.5440, WOS:000637398100002.
48. Mona Andrei, **Mihaela Aradoaei**, Sebastian Mihail Pascu, Sebastian Teodor Aradoaei, Modeling and simulation of electromagnetic absorption properties of nano-structured composites in the radio frequency/microwave range, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 06-08 October 2021, Iasi, Romania, Accession Number: 21438259, DOI: 10.1109/SIELMEN53755.2021.9600270, indexat IEEE Xplore.
49. Mona Andrei, Andreea-Maria Lucaci, **Mihaela Aradoaei**, Sebastian Teodor Aradoaei, Design of the nano / micro scale structure of nanostructured composites activable in the radio frequency/microwave range depending on the frequency of the electromagnetic field, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 06-08 October 2021, Iasi, Romania, Accession Number: 21438304, DOI: 10.1109/SIELMEN53755.2021.9600282, indexat IEEE Xplore.
50. Sebastian Aradoaei, Vasile Bahrin, **Mihaela Aradoaei**, Constantin Mirela, Constantin Lucian, Ionescu Ioana, Analysis of the Physical and Chemical Properties of Biocomposite Materials Obtained from Feather Flour and Polypropylene, Revista de Materiale Plastice, 2020, vol.:57, Issue 4, pp.325-332, <https://doi.org/10.37358/MP.20.4.5432>, WOS:000617344900031.
51. L. Ungureanu, R.C. Ciobanu. C.M. Schreiner, **M. Aradoaei**, O. Plopa, M. Baibarac, Flexible Piezo-Electric Composites for 3D-Printed Harvesters, 11th International

- Conference on electrical and power engineering, 22-23 Octombrie EPE 2020 - Iași, Romania, DOI: 10.1109/EPE50722.2020.9305569, indexat IEEE Xplore.
52. S.T. Aradoaei, V. Bahrin, **M. Aradoaei**, M.A. Constantin, L.A. Constantin, Dielectric Spectroscopy Analysis of Composites Obtained from Thermoplastic with Feathers Flour, 11th International Conference on electrical and power engineering, 22-23 Octombrie EPE 2020 - Iași, Romania, DOI: 10.1109/EPE50722.2020.9305582, indexat IEEE Xplore.
 53. A. R. Caramitu, S. Mitrea, V. Marinescu, G. A. Ursan, **M. Arădoaei**, I. Lingvay, Dielectric Behavior and Morphostructural Characteristics of some HDPE Composites / Metal Nanopowders, Revista Materiale Plastice, 2019, vol.: 56, Issue 1, pp.103-109, WOS: 000464604100021, <https://doi.org/10.37358/MP.19.1.5132>.
 54. Ursan George-Andrei, Plopa Olga, Contofan Cosmin, **Aradoaei Mihaela**, Ursan Maria, Optical Evaluation Systems for Anisotropic Composite Materials Quality Assessment, 12th International Conference And Exhibition On Electromechanical And Energy Systems, SIELMEN 2019, 10-11 Oct., Chișinău, WOS: 000630287500041.
 55. Gheorghe Batrinescu, Nicolae Ionut Cristea, Robert Valeriu Badescu, Romeo Cristian Ciobanu, George Andrei Ursan, **Mihaela Aradoaei**, The Induced Impact on the Environment by Combined Plastic and Paper Waste before and after Recovery, Revista de Chimie, 2019, vol.: 70, Issue 12, pp. 4579-4583, <https://doi.org/10.37358/RC.19.12.7796>, indexat Scopus.
 56. A.R. Caramitu, V. Marinescu, S. Mitrea, **M. Arădoaei**, G.A. Ursan, Dielectric and Morphostructural Characterization of some Types of Polypropylene Composites / Metallic Nanopowders, Electrotehnică, Electronică, Automatică , (EEA), Volumul: 67, nr. 1, pp. 61-67 2019, indexat Scopus.
 57. R.C. Ciobanu, G.A. Usan, **M. Aradoaei**, G. Batrinescu, A.R. Baci, Specific Tests Concerning Microwave Sterilization Efficiency of Combined Plastic and Paper Waste, 10th International Conference on electrical and power engineering, 18-20 Octombrie EPE 2018 - Iași, Romania, Page 1000-1003, WOS: 000458752200196.
 58. A.D. La Rosa, G.A. Usan, **M. Aradoaei**, M. Ursan, C. M. Schreiner, Susceptor Assisted Microwave Processing of Polymers for Adhesive Production, 10th International Conference on electrical and power engineering, 18-20 Octombrie EPE 2018 - Iași, Romania, Page 662-665, WOS:000458752200129.
 59. A.D. La Rosa, G.A. Usan, **M. Aradoaei**, M. Ursan, C. M. Schreiner, Life Cycle Assessment of Microwave Activated Hot-Melt Adhesives, 10th International Conference on electrical and power engineering, 18-20 Octombrie EPE 2018 - Iași, Romania, Page 658-661, WOS: 000458752200128.
 60. R.C. Ciobanu, M.A. Olariu, G.A. Usan, **M. Aradoaei**, O. Plopa, Modeling and Simulation of Nanoparticles Dispersion for the Realization of ACFs, 11th International Symposium on Fundamentals of Electrical Engineering, University Politehnica of Bucharest, 1-3 November 2018, WOS:000480396400034.
 61. Arădoaei S., Andrei M., Ciobanu R., **Mosneagu M. (casătorită Aradoaei)**, Bahrin V., Modeling The Properties Of Bio-Composites Obtained From Plastic And Wood Waste For Building Applications, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 504-507, indexat Scopus.
 62. **M. Aradoaei**, I. Pepenar, Considerations on the Dielectric Properties and Thermal Profile of Geopolymeric Composites with Ferro / Ferrimagnetic Inserts, 8th International Conference on electrical and power engineering, 16-18 Octombrie EPE 2014 - Iași, Romania, Page 891-896, WOS: 000353565300166.
 63. Aradoaei Sebastian Teodor, Ciobanu Romeo Cristian, Darie Raluca Nicoleta, **Mosneagu Mihaela (casătorită Aradoaei)**, Innovative biocomposite derived from waste materials with applications in electrical domain, Interdisciplinary research in engineering: steps

towards breakthrough innovation for sustainable development, Book Series: Advanced Engineering Forum, Volume: 8-9 page 379-386, 2013, DOI:10.4028/www.scientific.net/AEF.8-9.379, WOS:000323184000043.

64. S.Aradoaei, R.Darie, C.Vasile, **M. Mosneagu (casătorită Aradoaei)**, M. Olariu, Morphology and dielectric properties of some LDPE/PA blends in presence of compatibilizers, Solid State Phenomena, Vol. 188, Advanced Materials and Structures, page 268-274, 2012, DOI:10.4028/www.scientific.net/SSP.188.268, WOS:000308047400045, indexat Scopus.
65. S. Aradoaei, **M. Mosneagu (casătorită Aradoaei)**, R. Darie, G.Constantinescu, Development Of New Materials For Construction Sector Obtained From Renewable Resources, enviBuild 2012 and Building Performance Simulation Conference 2012, Advanced Materials Research; Brno, pp.231-235, 2012. DOI:10.4028/www.scientific.net/AMR.649.231, indexat Scopus.
66. S. Arădoaei, R. Darie, **M. Moșneagu (casătorită Aradoaei)**, Dielectric Investigations On Composite Materials Obtained From Waste Plastics, Buletinul institutului politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 6, 2011, Secția Electrotehnică. Energetică. Electronică, indexat copernicus.
67. S.Aradoaei, R.Darie, **M. Mosneagu (casătorită Aradoaei)**, S.Ursache, Technological analysis of materials derived from recycled PET and LDPE via dielectric spectroscopy method, Proceedings of 7th International Conference Management of Technological Changes, MTC 2011, 1-3 September, Alexandroupolis, Greece, vol.1, pp. 449-452, 2011, page 449-452, WOS:000306939900113

G. Lucrări științifice publicate în reviste din străinătate.

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H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

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I. Lucrări științifice publicate în volumele conferințelor.

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J. Invenții.

1. Brevet de invenție nr. 135946/2022 cu titlul " Procedeu de evaluare a contaminării cu biomolecule a suporturilor pe bază de polierilen tereftalat reciclat", inventatori: Dodi Gianina, Cojocar Florina Daniela, Popescu Diana, Mihaai Cosmin Teodor, **Mihaela Arădoaei**, Romeo Cristian Ciobanu

K. Contracte de cercetare.

1. **Director proiect - Tehnologia de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabile sub acțiunea câmpului electromagnetic, pentru aplicații electronice și biomedicale-** Contract de finanțare 19/2018, Program PN III - Cooperare Europeană și Internațională - Subprogram 3.2 - Orizont 2020, Tip Proiect - ERANET, COFUND-MANUNET III-AniConFilm-2, durată 24 luni, , buget 388.270 lei
2. **Director proiect - NEEDS Repowered - Navigând în ape tulburi: Restructurarea orașelor în perioade de criză** - Contract de finanțare 127/2025, Contract de cercetare/finanțare tip COFUND, program 5.8. - Cooperare europeană și internațională, subprogram 5.8.1. - Orizont Europa, durată 35 luni, buget 1.000.000 le

3. **Membru** - *Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions*, DaWetRest, Contract nr. 101113015/2023, din cadrul HorizonEurope, finanțat prin CE HORIZON Action Grant Budget-Based, durata 36 luni, buget 88.062,50 euro
4. **Membru** - *Grant pentru susținerea capacității de publicare*, grant intern GI/P10/2021, buget 45.000 lei
5. **Membru** - *Grant pentru idei de proiect*, grant intern GI/P1/2021_IDEI, , buget 40.000 lei
6. **Membru** - *Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane (MINaFBioS)*, PN III - ERANET, MANUNET-III, Contract nr. 149/2020, durata 24 luni, buget 432.250 lei
7. **Membru** - *Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor (INTREPIDUS)*, PN III ERANET-EURONANOMED, Contract nr. 193/2020, durata 36 luni, buget 535.700 lei
8. **Membru** - *Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri activi, (CARBIOSENSE)*, Programul MANUNET ERANET, Contract nr. 7-038/ 13.05.2011, durata 33 luni, buget 381.282,62 lei
9. **Membru** - *Sisteme software cu arhitecturi versatile de management al energiei și de optimizare a indicatorilor de performanță energetică a clădirilor inteligente, dezvoltate în cadrul clusterului euronest IT&C HUB*, Programul Operațional Competitivitate, Contract nr. 70/221_ap2/14.08.2020, My SMIS 130052, durată 27 luni, buget 4.474.125 lei
10. **Membru** - *Cercetare-dezvoltare de materiale compozite inovative nanostructurate, activabile in camp de radiofrecventa si de microunde, pentru tehnologii reversibile de asamblare cu aplicatii intersectoriale*, Programul Operațional Competitivitate, Contract nr. 119/16.09.2016, ID P_37_757, My SMIS 104089, durată 48 luni, buget 11.140.371 lei
11. **Membru** - *Realizarea inovativă de produse compozite termoplastice cu proprietăți superioare de ecranare electromagnetica prin reciclarea integrată a deșeurilor electronice, (RECEMAT)*, Programul Operațional Sectorial Creșterea Competitivității Economice, Axa Prioritară 2 – Competitivitate prin CDI, Contract nr. 460/03.04.2013, ID 1372/SMIS 41074, durată 26 luni, buget 3.498.500 lei
12. **Director proiect** - *Transfer de cunoștințe privind realizarea de noi metode de diagnosticare a panourilor din parcuri fotovoltaice*, Programul Operațional Competitivitate, Contract subsidiar nr. 126/D10/2022, My SMIS 105567, durată 8 luni, buget 580.000 lei
13. **Director proiect** - *Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania – AMD-FARMA-MED-RO*, Programul Operațional Competitivitate, Contract subsidiar nr. 62/13.04.2022, My SMIS 105725, durată 11 luni, buget 448.605 lei
14. **Director proiect** - *Dezvoltarea de materiale compozite ceramice geopolimerice, din deseuri industriale, cu proprietati superioare de ecranare electromagnetica si termica, pentru constructii speciale*, Programul EUREKA-EUOSTARS-NEWCOMAT, Contract 316E/15.05.2012, durată 19 luni, buget 367.710 lei
15. **Membru** - *Mitigarea riscului pentru sănătatea publică privind contaminanții biochimici ai ambalajelor farmaceutice și alimentare reciclate printr-o nouă metodologie bazată pe analiza spectrală în domeniul THz (THzPET)*, PN-III-P2-2.1-657PED/2020, durată 18 luni, buget 250.000 lei
16. **Membru** - *Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania – AMD-*

- FARMA-MED-RO, Programul Operațional Competitivitate, Contract subsidiar nr. 636/16.03.2020, My SMIS 105725, durată 15 luni, buget 630.199 lei
17. **Membru** - Parteneriate pentru transfer de cunoștințe în domeniul materialelor polimere folosite în ingineria biomedicală, Programul Operațional Competitivitate, Contract subsidiar nr. 8733/05.12.2019 - 659/06.12.2019, My SMIS 105689, durată 32 luni, buget 900.000 lei
 18. **Membru** - Dispozitive flexibile și elastice printate 4D de captare a energiei piezoelectrice, bazate pe elastomeri inovativi electro-adaptabili, 4DPrintEN, Proiect cod COFUND - ERANET MANUNET III, Contract de finanțare nr. 96/01.06.2019, durată 24 luni, buget 468.100 lei
 19. **Membru** - Materiale multifuncționale inteligente pentru aplicații de înaltă tehnologie, Programul Operațional Competitivitate, Contract subsidiar nr. 370/20.02.2019, My SMIS 105726, durată 24 luni, buget 880.000 lei
 20. **Membru** - Reciclarea avansată integrată a deșeurilor combinate inseparabile de mase plastice și hârtie, nereciclabile prin tehnologiile actuale, Programul Operațional Competitivitate, Contract subsidiar nr. 366/11.09.2017 - 15351/13.09.2017, My SMIS 105581, durată 24 luni, buget 900.000 lei
 21. **Membru** - Dezvoltarea de panouri compozite izolatoare pe bază de deșeuri de fulgi/pene, pulbere de lemn și plastic reciclat pentru clădiri ecologice tip „green building concept”, Programul EUREKA- FEVAL, Contract 308E/19.08.2011, durată 35 luni, buget 390.074 lei

L. Premii, distincții.

1. **Premiul** - Premiarea rezultatelor cercetării UEFISCDI Program 5.2, Subprogram 5.2.3 - Premiarea rezultatelor cercetării - Articole Web of Science, Competiția 2023 - Lista 1 - Cereri premiere pentru articole publicate în anul 2021 aprobate, cu încadrare în bugetul competiției, pag. 63/79, nr. crt. 873, cod depunere PN-IV-P2-2.3-PRECISI-2023-82452, pentru articolul Megha Sahu, Lakshmi Narasimhan, Ashok M. Raichur, Alexandru Sover, Romeo C. Ciobanu, Nicolae Lucanu, **Mihaela Aradoaei**, *Improving Fracture Toughness of Tetrafunctional Epoxy with Functionalized 2D Molybdenum Disulfide Nanosheets*, Polymers Journal, 2021, Volume 13, Issue 24, 4440, DOI: 10.3390/polym13244440, WOS:000737388000001, ISI web of Science (**Jurnal**).
2. **Premiul** - Premiarea rezultatelor cercetării UEFISCDI Program 5.2, Subprogram 5.2.3 - Premiarea rezultatelor cercetării - Articole Web of Science, Competiția 2023 - Lista 1 - Cereri premiere pentru articole publicate în anul 2021 aprobate, cu încadrare în bugetul competiției, pag. 63/79, nr. crt. 876, cod depunere PN-IV-P2-2.3-PRECISI-2023-82488, pentru articolul Alexandru Sover, Vasile Ermolai, Ashok M. Raichur, Romeo Ciobanu, **Mihaela Aradoaei**, Nicolae Lucanu, *Feasibility of Producing Core-Shell Filaments through Fused Filament Fabrication*, Polymers Journal, 2021, Volume 13, Issue 23, 4253, DOI: 10.3390/polym13234253, WOS:000734564000001 ISI web of Science (**Jurnal**).
3. **Premiul** - Premiarea rezultatelor cercetării UEFISCDI - Articole, Competiția 2021, Rezultate evaluare Lista 6_Partial, pag. 124-125, nr. crt. 330, cod depunere PN-III-P1-1.1-PRECISI-2021-67434, pentru articolul V. Stancu, A. Galatanu, M. Enculescu, M. Onea, B. Popescu, P. Palade, M. Aradoaie, R. Ciobanu, L. Pintilie, *Influences of Dispersions' Shapes and Processing in Magnetic Field on Thermal Conductibility of PDMS-Fe₃O₄ Composites*, Materials 2021, Volume 14, Issue 13, 3696.
4. **Diplomă de aur** pentru *Procedeu și compoziție pentru obținerea de compozite poliolefine/material cheratinic*, la Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timisoara, 10 octombrie 2022.

5. **Diploma de Excellence** - at The International Conference on Electrical and Power Engineering „ADVANCED STRUCTURES, MATERIALS AND ELECTRICAL SYSTEMS ASMES 2024”, pentru Polymeric composite materials with electromagnetic properties, obtained by dispersing some nanoaddirives in its structure, Tugui Costel, Romeo C. Ciobanu, Mihaela Aradoaei, Caramitu Alina Roxana, Ion Ioana.

M. Alte realizări semnificative.

Data: 18. 11.2025

Conf. Dr. Ing. Arădoaei Mihaela

