

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

“*Synthesis of Gold Nanoparticles and Microfabrication of Protein Structures for Biological Applications*“, Prof.dr. Simon Astilean, Dr. Patrice Baldeck, anul susținerii 2009

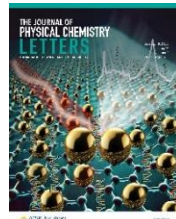
B. Cărți și capitole în cărți publicate în ultimii 10 ani

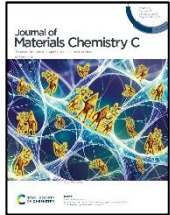
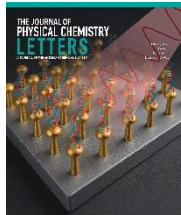
1. **Book:** Edited by V. Chis, **M. Focsan**, M. de la Chapelle, R. Fausto, Journal of Molecular Structure Elsevier, Special Issue *Bridging molecules and nanoparticles the way from optical spectroscopy to cancer therapy*, vol 1254F1, 2022.
2. **Book:** **M. Focsan**, *Laser Microfabrication of Proteins for Biological Applications*, Monica Focsan, Editura Alma Mater, 2013, ISBN 978-606-504-164-6
3. **Book Chapter:** R. Borlan, A. Campu, **M. Focsan**, S. Astilean, Synergistic nano-photodynamic therapy/nano-photothermal therapy combination book chapter in NanoPDT Nanomaterials-Enhanced Photodynamic Therapy, - editors Saeid Moghassemi, Ricardo Bentes Azevedo and Christiani Andrade Amorim, Elsevier 2026, 369-417, ISBN: 978-0-443-40431-3
4. **Book Chapter:** Daria Stoia, **Monica Focsan***, Multifunctional Polymeric Microspheres for Targeted Delivery and NIR-Light Stimulated Release of the Therapeutic Molecule Avastin at Human Retina Level, Biotechnology and Human Enhancement, Present Research and Future Perspectives, editors Luciano De Sio, Eyup Kuntay Turmus, 2025, 79-110, ISBN 978-94-024-2295-5
5. **Book Chapter:** V. Sprincean, A. Chirita, L. Leontie, S. Astilean, **M. Focsan**, A.M. Craciun, A. Paladi, V. Andruh, F. Paladi, Advanced Physical Technologies with the UVS Application in Environment Security, book chapter in Monitoring and Protection of critical infrastructure by unmanned systems, editors P. Daponte and F. Paladi, IOS Press, Amsterdam, 2023, 101-113, ISBN 978-1-64368-376-8



6. **Book Chapter:** F. Petronella, D. Stoia, Y. Ziai, F. Zaccagnini, V. Scognamiglio, D. Maniu, C. Rinoldi, **M. Focsan**, A. Antonacci, F. Pierini, L. De Sio, Plasmonic-based biosensors for the rapid detection of harmful pathogens, book chapter in Optical Materials and Applications: Volume 1 Novel Optical Materials, Edited By: Iam Choon Khoo, Francesco Simoni and Cesare Umeton, World Scientific Publishing, https://doi.org/10.1142/9789811280603_0006, 2023, 155–194, ISBN 978-981-12-8059-7.
7. **Book Chapter:** M. Potara, A. Campu, S. D. Maniu, **M. Focsan***, I. Botiz, S. Astilean, *Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods*, book chapter in Advanced Nanostructures for Environmental Health, editors L. Baia, Z. Pap, M. Baia and K. Hernadi, Elsevier Inc (2020) 347 - 384, ISBN: 978-0-12-815882-1. ***All authors contributed equally to this work.**
8. **Book Chapter:** M. Potara, **M. Focsan***, A.M. Craciun, I. Botiz and S. Astilean, *Polymer-coated plasmonic nanoparticles for environmental remediation: synthesis, functionalization and properties*, chapter in New Polymer Nanocomposites for Environmental Remediation, eds. C. M. Hussain and M. Ajay, Elsevier, eds. C. M. Hussain and M. Ajay, **Elsevier**, 2018, Pages 361-387, ISBN:9780128110331, ***All authors contributed equally to this work.**

C. Lucrări indexate ISI publicate în ultimii 10 ani

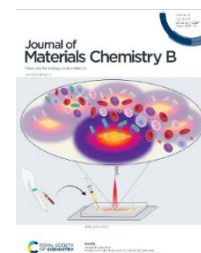
1. A. Holca, R. Borlan, A. Campu, S. Dragan, M. Muntean, A.-M. Craciun, A. Sesarman, M. Banciu, S. Astilean, M. Lamy de la Chapelle, **M. Focsan***, LED-Activated NIR-II Gold Nanorods for Photothermal Therapy of 3D Melanoma Spheroids, *ACS Applied Nano Materials*, 2025 (***corresponding author, IF 4.6**) 
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3. D. Stoia, E. Fazio, C. Corsaro, A. Campu, O. Soritau, A.-M. Craciun, G. Chereches, **M. Focsan***, G. Neri, A Piperno, Graphene-Poly (methacrylic acid)-Gold bipyramids hybrid plasmonic nanocomposite for in vitro bioimaging and photothermal therapy, *J. Mater. Chem. B*, 13, 2025, 4433-4446 (***corresponding author, IF 5.7**)
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5. V. Cucuiet, D. Maniu, S. Astilean, M. Lamy de la Chapelle, **M. Focsan*** SERS detection of DNA hybridization on a graphene oxide plasmonic nanoplatfom: Influence of DNA sequence length, *Appl. Phys. Lett.*, 127, 2025, 063701 **Nature index (*corresponding author, IF 3.6)**

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Semnătura: