
LISTA DE LUCRĂRI

Teza de doctorat

Instituție: Universitatea „Al. I. Cuza” Iași

Perioada: 2002 - 2007

Coordonator: Prof. Dr. Fiz. Agop Maricel

Titlul tezei: „Tranziții de fază în plasmă de descărcare”

Cărți și capitole în cărți publicate în ultimii 10 ani

1. M. Agop, D. Vasincu, D. Timofte, **E.S. Bacaita**, A. Agop, S.A. Irimiciuc, *Complex Systems with Self-Elimination of Dissipation with Implication in BioStructural Behavior Via Nondifferentiability*, Intech Publishing House, Rijeka Croația, pp. 23-55, 2017

Lucrări indexate ISI publicate în ultimii 10 ani

1. G. Vochita, A. N. Cadinoiu, D. M. Rata, L. I. Atanase, M. Popa, A. Mahdieh, C. T. Mihai, A. B. Stache, C. V. Moldovan, **E. S. Bacaita**, I. P. Condriuc, D. Gherghel, *Comparative In Vitro Study between Biocompatible Chitosan-Based Magnetic Nanocapsules and Liposome Formulations with Potential Application in Anti-Inflammatory Therapy*, Int. J. Mol. Sci., 25(15), 2024, doi: 10.3390/ijms25158454

2. C.L. Logigan, C. Delaite, M. Popa, **E. S. Bacaita**, C.E. Tiron, C. Peptu, C. A. Peptu, *Poly(ethylene glycol) Methyl Ether Acrylate-Grafted Chitosan-Based Micro- and Nanoparticles as a Drug Delivery System for Antibiotics*, Polymers, 16(1), 144, 2024, doi: 10.3390/polym16010144

3. **E. S. Bacaita**, D. M. Rață, A. N. Cadinoiu, V. Ghizdovă, M. Agop, A. C. Luca, *Drug release from nanoparticles (polymeric nanocapsules and liposomes) mimed through a multifractal tunneling-type effect*, Polymers, 15(4), 1018, 2023, doi: 10.3390/polym15041018

4. C. A. Peptu, **E. S. Băcăiță**, C. L. Savin (Logigan), M. Luțcanu, M. Agop, *Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release—an experimental and theoretical study*, Polymers, 13, 4161, 2021

5. **E. S. Băcăiță**, C. A. Peptu, C. L. Savin (Logigan), M. Luțcanu, M. Agop, *Manifest/non-manifest drug release patterns from polysaccharide based hydrogels—case study on cyclodextrin—k carrageenan crosslinked hydrogels*, Polymers, 13, 4147, 2021

6. A. N. Cadinoiu, D. M. Rață, L. I. Atanase, C. T. Mihai, **S. E. Băcăiță**, M. Popa, *Formulations based on drug loaded aptamer-conjugated liposomes as a viable strategy for the topical treatment of basal cell carcinoma—in vitro tests*, Pharmaceutics, 13, 866, 2021

7. C. Mihalache, D. M. Rata, A.N. Cadinoiu, **E. S. Bacaita**, et. al., *Bupivacaine-loaded chitosan hydrogels for topical anesthesia in dentistry*, Polymer International, 69, 11, 1152 - 1160, 2020

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8. A. Cadinoiu, **E. S. Bacaita**, C. Mihalache, et. al, *In vitro behaviour of Aptamer-Functionalized Polymeric Nanocapsules Loaded with 5-Fluorouracil for Targeted Therapy*, Materials Science & Engineering C, 103, 109828, 2019
 9. G. Cioca, M. Pinteala, **E. S. Bacaita**, I. Oprea, I. C. Tanasa, S. R. Volovat, V. S. Dragan, S. Trocaru, C. Anton, *Nonlinear Behaviors in Gene Therapy Theoretical and experimental aspects*, Materiale Plastice, 55, 3, p. 340-343, 2018
 10. **E. S. Bacaita**, C. S. Stan, M. Agop, G. Cioca, *Spectral Properties of HEMA/poly(HEMA) as Ligand in Luminescent Europium Based Complexes Through Computational Investigation*, Rev. Chim., 69, 9, p. 2430-2434, 2018
 11. G. Cioca, **E.S. Bacaita**, M. Agop, C. Lupascu Ursulescu, *Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions*, Comput. Math. Method Med., no. 5748273, 2017
 12. A. Grigorovici, **E. S. Bacaita**, V.P. Paun, C. Grecea, I. Butuc, M. Agop, O. Popa, *Pairs Generating as a Consequence of the Fractal Entropy: Theory and Applications*, Entropy-Switz., 19, 3, 128, 2017.
 13. **E. S. Bacaita**, M. Agop, *A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model*, Phys. Chem. Chem. Phys., 18, 21809-21816, 2016

Participări la conferințe în ultimii 10 ani

1. **E. S. Băcăiță**, **F. Mocci**, *In silico studies of thermoresponsive polymers*, TIM 20-21 Physics Conference, 2021
2. **P. Horlescu**, C. S. Stan, **E. S. Băcăiță**, *Highly efficient photonic conversion mediums based on polymer complexes for applications in light emitting devices*, Optics & Photonics International Congress 2018 – Opic-Ledia, 2018
3. **J. Desbrieres**, M. Popa, C. Peptu, B. Ciobanu, **S. Băcăiță**, *Liposome loaded chitosan hydrogels: A promising way to control the burst effect in drug release*, 4th Us-México Binational Symposium on Advances In Polymer Science MACROMEX, Mexic, 2017
4. **J. Desbrieres**, M. Popa, C. Peptu, **S. Bacaita**, *Liposome loaded chitosan hydrogels: a promising delayed release kinetics mechanism*, 10th World Biomaterial Congress, 17-22 May 2016.

Brevete obținute în întreaga activitate

1. C. S. Stan, P. Horlescu, M. Agop, C. A. Peptu, **E. S. Băcăiță**, *Preparation of photoluminescent aerogel used in lighting source, involves preparing carbon dot-based nanostructure doped with trivalent yttrium using yttrium trichloride and N-hydroxysuccinimide and introducing into polymer matrix*, RO133780-A2, 2018