

LISTĂ de LUCRĂRI

TEZA DE DOCTORAT

Chiriac (Axente) Elena Roxana, *Cercetări asupra compușilor bioactivi de interes terapeutic din *Medicago sativa* L. și *Trifolium pratense* L.*

Domeniul – Farmacie. Conducător științific Prof. univ. dr. farm. Rica Boscencu, Universitatea de Medicina și Farmacie “Carol Davila”, București

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- 1 Benea, L., Bounegru, I., **Axente, ER**, Buruiana, D. Susceptibility of 316L Stainless Steel Structures on Corrosion Degradation in Salivary Solutions in the Presence of Lactic Acid. *Journal of Functional Biomaterials*. 2023; 14(11):535, eISSN: 2079-4983. DOI: <https://doi.org/10.3390/jfb14110535>, WOS: 001113967100001. **IF(2022)=4.8**, Category Quartile: Q2
[JFB | Free Full-Text | Susceptibility of 316L Stainless Steel Structures to Corrosion Degradation in Salivary Solutions in the Presence of Lactic Acid \(mdpi.com\)](#) [JFB | November 2023 - Browse Articles \(mdpi.com\)](#)
- 2 **Benea L.**, Bounegru I., Forray A., **Axente ER** and Buruiana D.L. Preclinical EIS Study of the Inflammatory Response Evolution of Pure Titanium Implant in Hank’s Biological Solution. *Molecules*. 2023; 28(12):4837, ISSN: 1420- 3049. DOI: <https://doi.org/10.3390/molecules28124837>, WOS: WOS:001017380900001. **IF(2022)=4.927** Category Quartile: Q2
<https://www.mdpi.com/1420-3049/28/12/4837> <https://www.mdpi.com/1420-3049/28/12/4837/pdf>
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- 5 Benea L., Ravoiu A., Neaga V., **Axente ER**. Using Applied Electrochemistry to Obtain Nanoporous TiO₂ Films on Ti6Al4V Implant Alloys and Their Preclinical in Vitro Characterization in Biological Solutions. *Coating*. 2023; 13 (3): 614. ISSN: 2079-6412 DOI: <https://doi.org/10.3390/coatings13030614>, WOS: 000958379500001. **IF(2022)=3.236** Category Quartile Q2
<https://www.mdpi.com/2079-6412/13/3> <https://www.mdpi.com/2079-6412/13/3/614>
- 6 Neaga V., Benea L., **Axente ER**. Corrosion Assessment of Zr_{2.5}Nb Alloy in Ringer’s Solution by Electrochemical Methods. *Applied Sciences*. 2022; 12, 7976. ISSN: 2076-3417. DOI: <https://doi.org/10.3390/app12167976> WOS:000846137400001 **IF(2021)=2.7** Category Quartile Q2
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- 8 **Axente ER**, Benea L. and Bogatu N. The Effect of Nano-ZrO₂ Dispersed Phase into Cobalt Plating Electrolyte on Layer Thickness and Current Efficiency. Coatings. 2022; 12(7), 962. ISSN: 2079-6412. DOI: <https://doi.org/10.3390/coatings12070962> WOS:000833266700001 IF(2022)= 3.236 Category Quartile Q2 <https://www.mdpi.com/2079-6412/12/7> <https://www.mdpi.com/2079-6412/12/7/962/pdf>
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 - 10 Bogatu N., **Axente ER**✉, Benea L. and Celis J-P. Enhancement of Corrosion Resistance Properties of Electrodeposited Ni/nano-TiC Composite Layers. International Journal of Molecular Science. 2022; 23(11), 6069. ISSN: 1422-0067. DOI: <https://doi.org/10.3390/ijms23116069>, WOS:000809093800001. IF(2022)= 5.924 Category Quartile Q1 [IJMS | June-1 2022 - Browse Articles \(mdpi.com\)](https://www.mdpi.com/1422-0067/23/11/6069) <https://www.mdpi.com/1422-0067/23/11/6069>
 - 11 Ghisman V., Muresan A.C., Buruiana D.L., **Axente E.R.** Waste slag benefits for correction of soil acidity. Scientific Reports. 2022; 12(16042). ISSN 2045-2322. DOI: <https://doi.org/10.1038/s41598-022-20528-6> WOS:000860095400001 IF(2022)=4.6 Category Quartile Q2 <https://www.nature.com/srep/articles?type=article> <https://www.nature.com/articles/s41598-022-20528-6>
 - 12 Lidia Benea, Nicoleta Simionescu – Bogatu, **Roxana Chiriac**✉. Electrochemically obtained Al₂O₃ nanoporous layers with increased anticorrosive properties of aluminium alloy. Journal of Materials research and Technology. 2022; 17, 2636-2647, ISSN: 2238-7854, DOI: <https://doi.org/10.1016/j.jmrt.2022.02.038> WOS:000804057700008 IF (2022)=6.4 Category Quartile Q1 [Electrochemically obtained Al₂O₃ nanoporous layers with increased anticorrosive properties of aluminum alloy - ScienceDirect \(e-nformation.ro\)](https://www.sciencedirect.com/journal/journal-of-materials-research-and-technology) [Journal of Materials Research and Technology | Vol 17, Pages 1-3400 \(March–April 2022\) | ScienceDirect.com by Elsevier \(e-nformation.ro\)](https://www.sciencedirect.com/journal/journal-of-materials-research-and-technology)
 - 13 Stefan CS, Chitescu CL, Manolache N, Diaconu C, Elisei AM, Beznea A, Iancu A, Gurau G, **Chiriac ER**, Fulga I. The Investigation of antimicrobial activity of some extracts from Momordica Charantia by using as solvent extraction an ionic liquid. Farmacia Journal. 2022; 70(1),144-150 ISSN:0014-8237. DOI: <https://doi.org/10.31925/farmacia.2022.1.21> WOS:000767296200021. IF(2022)=1.6 Category Quartile Q4 [Farmacia Journal 1/2022 – Farmacia Journal art-21-Stefan_Fulga_144-150.pdf \(farmaciajournal.com\)](https://www.farmaciajournal.com)
 - 14 **Chiriac ER**✉, Chițescu CL, Geană E-I, Gird CE, Socoteanu RP, Boscencu R., Advanced Analytical Approaches for the Analysis of Polyphenols in Plants Matrices—A Review. Separation. 2021; 8(5):65. ISSN 2297-8739. DOI: <https://doi.org/10.3390/separations8050065>, WOS:000654547600001 IF(2021)= 1.900 Category Quartile Q3 <https://www.mdpi.com/2297-8739/8/5> <https://www.mdpi.com/2297-8739/8/5/65>
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Different Germination Stages Using the UHPLC-Q Exactive Hybrid Quadrupole Orbitrap High-Resolution Mass Spectrometry. *Molecules*. 2020; 25(10), 2321. ISSN 1420- 3049. DOI: <https://doi.org/10.3390/molecules25102321>, WOS:000539293400054 **IF(2020)=3.060** Category Quartile Q2

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- 18 Marculescu AD, Gavut CC, Nechita A, Topor G, Vasilescu LV, Debita M, **Axente ER**, Trinca LC, Anghel L. Investigation of linearity, detection limit (LD) and quantitation limit (LQ) of active substance from pharmaceutical tablets. *Revista de chimie*. 2019;70, 259-262. ISSN 2668-2812. DOI: <https://doi.org/10.37358/RC.19.1.6895>, WOS:000460428100057. **IF(2019)=1.755** Category Quartile Q3
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- 20 Stefan CS, **Chiriac ER**, Dragostin O, Lisa EL, Cioroi M. Study of Benzoic Acid Solubility in Imidazolium Formate as Pure Ionic Liquid and Its Binary Aqueous Mixtures. *Revista de chimie*. 2017; 68, 2256-2260. ISSN 0034-7752. DOI: <https://doi.org/10.37358/RC.17.10.5866> WOS:000416750000011 **IF(2019)=1.412** Category Quartile Q3 [CONTENTS 10 / 2017 \(revistadechimie.ro\)](https://www.revistadechimie.ro) <https://revistadechimie.ro/Articles.asp?ID=5866>
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2. Coman G., Chiriac A., **Chiriac R.**, Bioactive Properties and Stability of the Microcapsules With Lactobacillus Casei Probiotics and Arabinoxylans Fractions as Prebiotics. *Journal of Chemical, Biological and Physical Sciences*. 2017; 7 (2): 562-577. [Issue | Biological Science \(jcbcs.org\)](https://www.jcbcs.org)

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1. Buruiană D.L., Ghisman V., Mureșan A.C., Ghisman G., **Axente E.R.**, *Recycling waste steel slag to improve the soil acidity*, 3rd International Materials Technologies and Metallurgy Conference, 11-13 October 2023, Istanbul, Turcia
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5. Buruiana D.L., Ghisman V., Carp G.B. and **Axente E.R.**. *Valorification of Ferroalloy Slag Waste for Environmental Protection - 42nd MADRID International Conference on "Advances in Science & Technology" (MICAST-2022)*, June 22-24, 2022, Madrid, Spain
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7. Blaga G.V., **Chiriac E.R.**, Chitescu C.L., Borda D., Vizireanu C. *Comparative analysis of polyphenolic compounds in red clover (*Trifolium pratense*) and alfalfa (*Medicago sativa*) sprouts by UHPLC –ESI / HRMS / MS*. Prezentare orală la: World Congress and Expo on Nutrition Science and Food Chemistry, 16-17 Septembrie 2020, Barcelona, Spania.

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IWOS (2024) = 7

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Șef lucr. dr. farm. primar Elena Roxana AXENTE



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