

LISTA LUCRĂRILOR ȘTIINȚIFICE

Șef lucrări dr. ing. Elena-Mirela SUCEVEANU

A. Teza de doctorat

Titlul tezei: *Reacții de reducere selectivă cu aliaje de metale reactive și tranziționale*, Conducător științific: Prof. univ. dr. ing. Sorin I. Roșca, Universitatea „POLITEHNICA” din București, Facultatea de Chimie Aplicată și Știința Materialelor, **2012**.

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1. Niță, N. T., **Suceveanu, E. M.***, Nedeff, F. M., Favier, L., Herghelegiu, E., & Rusu, L., Design and Application of a Sawdust–Alginate Biocomposite for Sustainable Cationic Dyes Removal from Aqueous Solutions, *Polymers*, ISSN 2073-4360, **2026**, 18(9), 1136, IF=5,8, <https://doi.org/10.3390/polym18091136>
2. **Suceveanu, E. M.**, Niță, N.T., Rusu, L., Synthesis, characterization and potential application of biocomposite material based on sawdust biomass for removal of persistent organic pollutants from aqueous solutions, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **2025**, 26(3), 335-351, IF=0,7. <https://doi.org/10.29081/ChIBA.2025.653>
3. Ifrim, I.-L., **Suceveanu E.-M.***, Ștefănescu, I.-A., The impact of ultrasound treatment on the quality of different wine varieties, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **2024**, 25(3), 301-311, IF=0,3.

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5. Rusu, L., **Suceveanu, E. M.***, Blaga, A. C., Nedeff, F. M., & Șuteu, D., Insights into Recent Advances of Biomaterials Based on Microbial Biomass and Natural Polymers for Sustainable Removal of Pharmaceuticals Residues, *Polymers*, ISSN 2073-4360, **2023**, 15(13), IF=5.
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7. Rusu, L., Grigoraș, C. G., Simion, A. I., **Suceveanu, E. M.**, Dediu Botezatu, A. V., & Harja, M., Biosorptive Removal of Ethacridine Lactate from Aqueous Solutions by *Saccharomyces pastorianus* Residual Biomass/Calcium Alginate Composite Beads: Fixed-Bed Column Study, *Materials*, ISSN 1996-1944, **2022**, 15(13), 4657, IF=3,748.
8. Rusu, L., Grigoraș, C. G., Simion, A. I., **Suceveanu, E. M.**, Istrate, B., & Harja, M., Biosorption Potential of Microbial and Residual Biomass of *Saccharomyces pastorianus* Immobilized in Calcium Alginate Matrix for Pharmaceuticals Removal from Aqueous Solutions, *Polymers*, ISSN 2073-4360, **2022**, 14(14), 2855, IF=4,967.
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11. Rusu, L., Grigoraș, C.G., Simion, A.I., **Suceveanu, E.M.**, Șuteu, D., Harja, M.: Application of *Saccharomyces cerevisiae*/calcium alginate composite beads for Cephalexin antibiotic biosorption from aqueous solutions, *Materials*, ISSN 1996-1944, **2021**, 14 (16), 4728, IF=3,623.
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E. Lucrări publicate în Proceeding-uri indexate BDI

1. **Elena-Mirela Suceveanu**, Irina-Loredana Ifrim, Fruit and flower meads: obtaining, physicochemical and sensory characteristics, The 19th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2024, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 117.
2. **Elena-Mirela Suceveanu**, Irina-Loredana Ifrim, Strategies to improve melomel production, The National Conference of Chemistry, XXXVII Edition, Târgoviște, România, 25-27 septembrie 2024, www.icstm.ro/cnchim-2024
3. Lăcrămioara Rusu, **Elena-Mirela Suceveanu**, Florin Marian Nedeff, Narcis-Teodor Niță, Maria Harja, Lidia Favier, Latest advances in sawdust-biomass based materials for persistent organic pollutants removal from aqueous matrices, The 19th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2024, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 105.
4. Narcis - Teodor Niță, **Elena-Mirela Suceveanu**, Florin Marian Nedeff, Daniela Șuteu, Christophe Vial, Lidia Favier, Lăcrămioara Rusu, Eco-friendly biosorbent for the sustainable removal of antimicrobial pharmaceutical compounds from aqueous solutions, The 19th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2024, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 127.
5. Narcis-Teodor Niță, **Elena-Mirela Suceveanu**, Lăcrămioara Rusu, Biocomposite Material Based on *Lactococcus lactis* – A New Challenge in Biosorption Processes, Conference 'Ecology and Protection of Ecosystems' The XIVth Edition, 2nd – 4th of November **2023**, Bacau, Romania, Book of Abstracts, „Alma Mater” Publishing House, Bacau, p. 120.
6. Elena-Petronela Bran, Irina-Claudia Alexa, **Elena-Mirela Suceveanu**, Daniela Nicuță, Adriana-Luminița Fînaru, Research concerning the valorisation of eggshells as biosorbent for heavy metals, Conference 'Ecology and Protection of Ecosystems' The XIVth Edition, 2nd – 4th of November **2023**, Bacau, Romania, Book of Abstracts, „Alma Mater” Publishing House, Bacau, p. 109.
7. **Elena-Mirela Suceveanu**, Lăcrămioara Rusu, Ovidiu Tița, Lidia Favier, Investigation into 3-formyl-rifamycin biosorption using biocomposite material based on microbial biomass and natural polymer, The 18th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2023, Bacau, 11-13 mai **2023**, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388
8. Lăcrămioara Rusu, **Elena-Mirela Suceveanu**, Daniela Șuteu, Christophe Vial, Biocomposite material based on yeast residual biomass and natural polymer as alternative for sustainable

- removal of Rifampicin from aqueous media, The 18th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2023, Bacau, 11-13 mai 2023
9. Irina-Loredana Ifrim, Ioana-Adriana Ștefănescu, **Elena-Mirela Suceveanu**, Application of ultrasound treatment to improve sensory characteristics in red wines, The 18th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2023, Bacau, 11-13 mai 2023
 10. Ioana-Adriana Ștefănescu, **Elena-Mirela Suceveanu**, Irina-Loredana Ifrim, Urease activity in ginger (*Zingiber officinale*), The 18th International Conference of Constructive Design and Technological Optimization in Machines Building Field, OPROTEH-2023, Bacau, 11-13 mai 2023
 11. Lăcrămioara Rusu, **Elena-Mirela Suceveanu**, Cristina-Gabriela Grigoraș, Andrei-Ionuț Simion, Valorization of brewery spent yeast for the synthesis of biocomposite materials with applications in water treatment Modern Technologies in the Food Industry-2022, Fifth edition, 20-22 October, 2022, Chisinau (Republic of Moldova)
 12. Irina-Claudia Alexa, **Elena-Mirela Suceveanu**, Daniela Nicuță, Luminița Grosu, Oana-Irina Patriciu, Adriana-Luminița Fînaru, New approaches for Fetească neagră grape pomace valorisation, Modern Technologies in the Food Industry-2022, Fifth edition, 20-22 October, 2022, Chisinau (Republic of Moldova)
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 15. Lăcrămioara Rusu, Cristina-Gabriela Grigoraș, Andrei-Ionuț Simion, **Elena-Mirela Suceveanu**, Christophe Vial, Application of biocomposite material based on residual microbial biomass and natural polymer for the removal of pharmaceuticals from aqueous solutions in continuous system, 22nd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, ROMANIA, September 7-9, 2022
 16. Lăcrămioara Rusu, Cristina-Gabriela Grigoraș, **Elena Mirela Suceveanu**, Andrei-Ionuț Simion, Christophe Vial, Modeling and optimization of pharmaceuticals biosorption from aqueous matrices by *Saccharomyces pastorianus* residual biomass/calcium alginate composite beads in a batch system, The 17th International Conference of Constructive and Technological Design Optimization in the Machines Building Field OPROTEH-2022, Bacau, 25-27 mai 2022, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 94.
 17. **Elena-Mirela Suceveanu**, Ioana-Adriana Ștefănescu, Irina-Loredana Ifrim, The influence of ultrasonication on the physico-chemical parameters of different varieties of wine, The 17th International Conference of Constructive and Technological Design Optimization in the Machines Building Field OPROTEH-2022, Bacau, 25-27 mai 2022, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 82.
 18. Ioana-Adriana Ștefănescu, Irina-Loredana Ifrim, **Elena-Mirela Suceveanu**, Catalase activity of polluted spontaneous flora, The 17th International Conference of Constructive and Technological

- Design Optimization in the Machines Building Field OPROTEH-2022, Bacau, 25-27 mai **2022**, Conference Proceedings, „Alma Mater” Publishing House, Bacau, ISSN 2457-3388, p. 90.
19. Rusu, L., Şuteu, D., Grigoraş, C.G., Vial, C., **Suceveanu, M.**, Development of new biosorbents based on microbial biomass immobilized on natural polymers, OPROTEH **2021** - The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field, <http://oproteh.ub.ro/>
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 25. **Suceveanu, M.**, Fînar, A., Raicopol, M., Roşca Sorin, Mechanistic aspects of the reduction of carbonyl compounds with nickel-aluminum alloy in alkaline aqueous media, 9th International Conference of the Chemical Societies of the South-East European Countries, ICOSECS 2019, May 8th – 11th, **2019**, Târgovişte, România
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74. Istrati, L., Gavrilă, L., **Grosu, M.**, Recherches sur l'obtention de certains extraits des plantes pour l'industrie pharmaceutique, cosmétique et alimentaire. I. L'obtention de l'huile essentielle de basilic, *Le Deuxième Colloque Franco-Roumain de Chimie Appliquée COFrRoCA – 2002*, Bacău, România
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G. Contracte de cercetare

1. **Grosu (Suceveanu), M.** - Grant CNCISIS tip TD, nr. 461/2004, cu titlul: **Reduceri selective în nanosistemi ale unor aliaje de metale reactive și tranzitionale**, Universitatea „POLITEHNICA” din București, derulat în perioada 2004-2006, *director de grant*.
2. Grant CNFIS, finanțat de Banca Mondială și Guvernul României, nr. 146/2000: **Modernizarea procesului de învățământ prin implicarea studenților în elaborarea de noi structuri zeolitice cu proprietăți catalitice aplicate în industria chimică, alimentară și protecția mediului**, derulat în perioada 2000-2003, *membru în colectivul de cercetare*.
3. Grant CNCISIS, 858/2002, **Cercetări privind optimizarea calităților biotehnologice ale drojdiei *Saccharomyces cerevisiae***, derulat în perioada 2002-2003, *membru în colectivul de cercetare*.
4. Contract CNCISIS tip A, cod 1006/2004, **Cercetări privind identificarea, monitorizarea și valorificarea optimă a produselor secundare din industria berii**, derulat în perioada 2004-2006, *membru în colectivul de cercetare*.
5. Contract CERES 4-128/2004, **Specii bioactive procesate ca inhibitori ai agenților infecțioși**, derulat în perioada 2004-2006, *membru în colectivul de cercetare*.
6. Program CEEEX, **Specii complexe cu spectru larg de acțiune biologică funcționalizate cu grupări polimerizabile – BIOPOLYS**, 2006-2008, *membru în colectivul de cercetare*.
7. Proiect POSDRU/86/1.2/S/56711: **Calitate și expertiză în elaborarea și implementarea metodologiei de obținere și testare a produselor competitive prin formarea profesională în cadrul unor noi programe de master cu impact major pe piața muncii**, perioada de derulare 2010-2013, *expert pe termen scurt*.
8. Proiect POCU/90/6.13/6.14/108612/05.07.2018 cu titlul: **„Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară”** Cod SMIS 108612, Programul Operațional Capital Uman 2014-2020, Perioada: **2018-2020**, *expert evaluare competențe tehnice*.
9. Proiect de cercetare PN-III-P2-2.1-PED-2019-1063 cu titlul: **„Obținerea de materiale cu valoare adăugată prin valorificarea subproduselor industriale (AddValueMat)”**, perioada de derulare 2020-2022, *membru în colectivul de cercetare*.

10. Contract de cercetare nr. 2/2024 cu titlul: “*Soluții inovative și sustenabile pentru valorificarea deșeurilor din lemn rezultate de la fabricarea mobilei în vederea integrării în economia circulară (SUSTENWOOD)*”, perioada de derulare 2024-2025, membru în colectivul de cercetare.
11. Proiect Junior Achievement România “**Simulated Enterprises in Food Industry at “Vasile Alecsandri” University of Bacau**” (SEiFI@UBc 2024), perioada de derulare 2024-2025, membru în echipă.

H. Rapoarte de cercetare publicate

1. Grosu (Suceveanu) Elena-Mirela, **Raport de Cercetare Final (2004-2006), Grant CNC SIS 461/2004**, cu tema ***Reduceri selective în nanosisturi ale unor aliaje de metale reactive și tranzitionale***, *Revista de Politica Științei și Scientometrie* - Vol. IV, Număr Special, 2006, ISSN- 1582-1218, <http://www.rezultate-granturi.ro/gr2006/Default.aspx>

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