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LISTĂ DE LUCRĂRI

TEZĂ DE DOCTORAT

Valorisation des fruits et des sous-produits de l'industrie de transformation des fruits par extraction des composés bioactifs
Teză în cotutelă internaţională Université d'Orléans (Franţa); Universitatea „Vasile Alecsandri" din Bacău (România)

CĂRȚI ȘI CAPITOLE DE CĂRȚI

1. **Grigoraş C.-G.**: *Valorificarea fructelor şi subproduselor din industria de prelucrare a fructelor prin extracţie de compuşi bioactivi* (ISBN 978-606-527-735-9). Editura „Alma Mater", Bacău, **2025**
2. **Grigoraş C.-G.**, Simion A.I. (Coord.): *Fenomene de transfer şi operaţii unitare. Unităţi de măsură, bilanţ de materiale, bilanţ termic* (ISBN 978-606-527-733-5). Editura „Alma Mater", Bacău, **2025**
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POSTERE

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2. Simion A.I., **Grigoraș C.-G.***, Favier L., Păcală M.L.: *Empirical Modeling of Density in Aqueous Ethylene Glycol Solutions as a Function of Temperature and Concentration*
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6. Simion A.I., **Grigoraș C.-G.**, Favier L.: *Mathematical modelling of the dynamic viscosity of ethylene glycol aqueous solutions*
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7. Avătămăniței I., Patriciu O.-I., Ifrim I.-L., **Grigoraș C.-G.**, Fînaru A.-L.: *The influence of the extraction conditions on the active components from some by-products of black chokeberry (Aronia melanocarpa)*
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8. Simion A.I., **Grigoraș C.-G.**, Favier L.: *Thermophysical properties mathematical modelling of ethylene glycol – water binary systems*
19th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH, 22-24 Mai **2024**, Bacău, România

9. Sescu A.M., Favier L., Lutic D., Hanganu D., Simion A.I., **Grigoraș C.-G.**, Rusu L., Harja M.: *UV-A sensitive mesoporous catalysts toward clofibric acid photo-oxidation: synthesis, characterization and performance evaluation*
19th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH, 22-24 Mai **2024**, Bacău, România

10. Păcală M.L., Favier L., **Grigoraș C.-G.**, Simion A.I., Brudiu L.: *The significant use of millet to develop nutritional value cereal-based products.*
19th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH, 22-24 Mai **2024**, Bacău, România

11. Păcală M.L., Favier L., Șipoș A., Simion A.I., **Grigoraș C.-G.**, Brudiu L.: *Exploring bread production with functional ingredients: a case study on brewer's spent grain*
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12. **Grigoraș C.-G.**, Simion A.I., Favier L.: *Development of a novel two-components material and its application as efficient dyes adsorbent*
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13. Favier L., **Grigoraș C.-G.**, Harja M., Pacala M.L., Simion A.I.: *Fast photocatalytic elimination and mineralization of an emergent water contaminant using titania2 nanocatalysts*
3rd International Meeting on New Strategies in Bioremediation/Restoration Processes, 29-30 iunie **2023**, Muttenz, Elveția

14. **Grigoraș C. -G.**, Simion A.I., Favier L.: *Preparation of an adsorbent material from cherry stones powder and its application in retaining azo dyes from aqueous solutions*
18th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH, 11-13 Mai **2023**, Bacău, România

15. Muntianu G., Simion A.I., **Grigoraș C.-G.**, Nistor I.D.: *Ammonia adsorption on pillared clay in magnetic field. Mathematical modelling and optimization by Response Surface Methodology*
18th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH, 11-13 Mai **2023**, Bacău, România

16. Sescu A.M., Favier L., Lutic D., Harja M., Rusu L., Simion A.I., **Grigoraș C.-G.**: *An investigation into synthesis of mixed oxides and their use on water decontamination*
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18. Rusu L., **Grigoraș C.-G.**, Simion A.-I., Suceveanu E.M., Vial C.: *Application of biocomposite material based on residual microbial biomass and natural polymer for the removal of pharmaceuticals from aqueous solutions in continuous system*
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19. Suceveanu E.M., Rusu L., **Grigoraș C.-G.**, Simion A.-I.: *Eco-friendly biosorbents based on Saccharomyces Pastorianus immobilized in natural polymers: synthesis, characterization and application for the removal of pharmaceuticals from aqueous matrices*
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23. **Grigoraș C.-G.**, Simion A.I., Favier L., Gavrilă L.: *Effective removal of Biebrich Scarlet dye from aqueous solutions by adsorption on cherry stones powder coated with chitosan*
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24. Rusu L., Șuteu D., **Grigoraș C.-G.**, Vial C., Suceveanu E.M.: *Development of new biosorbents based on microbial biomass immobilized on natural polymers*
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26. Paleu D., Simion A.I., **Grigoraș C.-G.**, Roșu A.M., Nistor I.D.: *Study of the current state of preparation methods for hydrotalcite (anionic clays)*
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52. Simion A.I., **Grigoraş C.-G.**, Gavrilă L.: *Modeling thermodynamic properties of glycerol involved in cosmetic and pharmaceutical industries. Boiling point, heat capacity and thermal conductivity*
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Centenary of Education in Chemical Engineering, 28-30 Noiembrie **2012**, Iaşi, România

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International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA, **2010**, Bacău, România

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79. **Grigoraş C.-G.**, Gavrilă L., Fînaru A., Lazăr G., Elfakir C.: *Etudes et recherches concernant la valorisation des sous-produits d'origine végétale*
Atelier Franco-Roumain. Promotion de la Chimie Verte, 6-7 iulie **2010**, Orléans, Franţa

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82. **Grigoraş C.-G.**, Destandau E., Fînaru A., Elfakir C.: *Analysis of sweet cherries antioxidant content*
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PROIECTE

1. **Expert formare**
   Momentum antreprenorial: dezvoltarea ecosistemului de inovare și inițiativă antreprenorială la Universitatea „Vasile Alecsandri" din Bacău prin pedagogii moderne (AI, digitalizare, gamificare)"
   CNFIS-FDI-2026-F-1413

2. **Expert formare**
   Mentalitate antreprenorială, inovare sustenabilă, incluziune și interdisciplinaritate: premise pentru consolidarea ecosistemului antreprenorial la Universitatea „Vasile Alecsandri" din Bacău
   CNFIS-FDI-2025-F-0719

3. **Expert formare**
   Ecosistem antreprenorial competitiv, incluziv și sustenabil la Universitatea „Vasile Alecsandri" din Bacău
   CNFIS-FDI-2024-F-0556

4. **Mentor studenți**
   Formarea tinerilor și crearea de experiențe motivaționale pentru un viitor în antreprenoriat
   CNFIS-FDI-2023-F-0244

5. **Membră în echipă**
   Obținerea de materiale cu valoare adăugată prin valorificarea subproduselor industriale
   PN-III-P2-2.1-PED-2019-1063

6. **Expert pilotare ofertă educațională**
   Creșterea calității programelor de studii universitare prin formarea resursei umane și promovarea culturii antreprenoriale în rândul studenților – ProForm
   POCU/379/6/21/124981

7. **Asistent manager**
   Parteneriat pentru stagii de practică – Primul pas pentru o carieră în industria alimentară
   POCU/60/6/19/108612

8. **Expert pe termen scurt**
   Creșterea capacității de integrare pe piața muncii a studenților și absolvenților prin consiliere și plasamente practice
   POSDRU/160/2.1/S/133020

9. **Expert pe termen scurt**
   Calitate și expertiză în elaborarea și implementarea metodologiei de obtinere și testare de produse competitive prin formarea profesională în cadrul unor noi programe de master cu impact major pe piața muncii
   POSDRU/86/1.2/S/56711

ACTIVITATE EDITORIALĂ

1. **Editor invitat pentru numere speciale reviste ştiinţifice**
   Sustainability, *Gels*.

2. **Membră în comitetul editorial pentru reviste ştiinţifice**
   Scientific Study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry; Scientific Study & Research – Biology

3. **Recenzor pentru peste 60 de reviste ştiinţifice**
   5 platforme *Elsevier, Springer Nature, Wiley, MDPI, Platforma de cercetare a Universităţii „Vasile Alecsandri" din Bacău*

Octombrie 2026