

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI”
 Domeniul de licență: Inginerie Chimică
 Programul de studii: Tehnologie Chimică Textilă
 Forma de învățământ: cu frecvență
 Durata studiilor: 4 ani

Anexa B.9.2. - Teme de cercetare

<p>Numele și prenumele cadrului didactic</p> <p>Discipline predate</p>	<p>Teme de cercetare în perioada 2021-2026</p> <p>Realizări</p>	<p>Rezultatele cercetării:</p> <p>Publicații în reviste de specialitate sau edituri din țară, ISI, BDI, comunicări științifice prezentate la sesiuni, simpozioane, seminarii etc. din țară și/ sau străinătate, contracte, expertiză, consultanță etc, pe bază de contracte sau convenții încheiate cu parteneri din țară și/sau străinătate, cu evaluare atestată de către comisii de specialitate, etc.</p>
<p>Apostolescu Gabriela Antoaneta Ș.L. dr. chim.</p> <p>104. Chimie 1 (Chimie Anorganică)</p>	<p>-Oxizi micsti cu aplicatii in supraconductivitate si cataliza</p> <p>-Materiale nanostructurate cu capacitate de adsorbție ridicate pentru îndepărtarea si recuperarea metalelor grele din apele reziduale</p> <p>-Sinteza și caracterizare de nanomateriale, nanoparticule cu activitate catalitică</p> <p>-Reducerea colorantilor in mediu acid</p>	<p>Articole publicate în reviste cotate ISI</p> <ol style="list-style-type: none"> 1. N. Apostolescu, R. E. Tataru Farmus, M. Harja, M. A. Vizitiu, C. Cernatescu, C. Cobzaru, G. A. Apostolescu, Photocatalytic Removal of Antibiotics from Wastewater Using the CeO₂/ZnO Heterojunction, Materials 16 (2), 850, 2023. 2. Nutescu Duduman C., Gómez de Castro C., Apostolescu G. A., Ciobanu G., Lutic D., Favier L., Harja M., Enhancing the TiO₂-Ag Photocatalytic Efficiency by Acetone in the Dye Removal from Wastewater, Water 14 (17), 2711, 2022. 3. Claudia Cobzaru, Genoveva Bordeianu, Gabriela Antoaneta Apostolescu, Ramona-Elena Tataru-Farmuş, Nicolae Apostolescu and Corina Cernatescu, Thermal and photochemical degradation of cooked sunflower, olive and palm oils, Rev. Roum. Chim., 66(7), 645-652, DOI: 10.33224/rch.2021.66.7.07, 2021,

	<p>Realizări: Articole ISI/BDI: 9 Contracte/granturi: 3</p>	<p>Articole indexate în baze de date internaționale</p> <ol style="list-style-type: none"> 1. Tătaru-Fărnuș R.E., Apostolescu N., Cobzaru C., Apostolescu G.A., Cernătescu C., Drăgoi E.N., Vizitiu M.A., Poroch M., Study on the Viscosity of Solvents Based on Alanine and Potassium Carbonate, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 69 (73), 2, 9-20, https://doi.org/10.5281/zenodo.8162195, 2023. 2. Cobzaru C., Apostolescu G.A., Vizitiu M.A., Tătaru-Fărnuș R.E., Apostolescu N., Cernătescu C., Study on the Effect of UV Radiation Over Time on the Oily Maceration of Hot Peppers, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 69 (73), 2, https://doi.org/10.5281/zenodo.8162852, 2023. 3. Cobzaru C., Cobiliță C.E., Danu M., Apostolescu G.A., Cernătescu C., Rheological Study of Cosmetic Creams with Basil Extracts Obtained by Maceration, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 69 (73), 3, https://doi.org/10.5281/zenodo.10072397, 2023. 4. Martinaș-Ioniță S.L., Apostolescu G.A., Harja M., Considerations for Recovering Valuable Materials from Electronic Waste, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 69 (73), 3, https://doi.org/10.5281/zenodo.10072445, 2023. 5. Nicolae Apostolescu, Mihaela Aurelia Vizitiu, Corina Cernătescu, Ramona Elena Tătaru-Fărnuș, Claudia Cobzaru, Gabriela Antoaneta Apostolescu, Current trends in the recovery of precious metals from electrical and electronic waste, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 68, 72, 1, DOI: 10.5281/zenodo.7533233, 2022.
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		<p>6. A. Apostolescu, M. A. Vizitiu, C. Cernătescu, C. Cobzaru, R. E. Tătaru-Fărnuș, N. Apostolescu, Thermochromic Materials: Oxides With Applications In Intelligent Technologies, The Bulletin Of The Polytechnic Institute From Iași Chemistry And Chemical Engineering Section, 67, 1, 2021.</p> <p>Contracte ca Membru în colectiv</p> <ol style="list-style-type: none"> 1. Specialist în domeniul didactic și pedagogic, activități de formare STEM în proiect UNICEF contract no. 43310013, 2020-2021 2. Reacționează Chimic cu Mediul de la TUIași, nr. 129/SGU/PV/II, Proiectul privind Învățământul Secundar (ROSE) 2019-2021, SCHEMA DE GRANTURI PENTRU UNIVERSITĂȚI – Programe de vară de tip punte (SGCU – PV), activități didactice. 3. Experimentează și descoperă fascinația studenției, grant nr. 326/SGU/PV/III/18.06.2020, Proiectul privind Învățământul Secundar (ROSE) 2019-2021, SCHEMA DE GRANTURI PENTRU UNIVERSITĂȚI – Programe de vară de tip punte (SGCU – PV) activități didactice. <p>Alte realizări: Editor asociat, Buletinul Institutului Politehnic din Iași, Secția Chimie și Inginerie Chimică, www.bipcic.icpm.tuiasi.ro</p>
<p>Bobu Roxana Lector dr.</p> <p>219. Pedagogie II</p>	<p>-Consilierea elevilor/studenților pentru carieră. Perspective constructiviste</p> <p>Realizări: Articole ISI/BDI: 1 Lucrări CNCSIS: 4</p>	<p>Lucrări ISI/BDI</p> <ol style="list-style-type: none"> 1. Jitaru, O., Bobu, R & Bostan, C. M. (2023). Social and emotional skills in adapting students to the academic environment. Revista Românească pentru Educație Multidimensională - The Romanian Journal for Multidimensional Education, Vol 15 (1), 590-605. (Indexat, Factor de impact = 2). DOI: https://doi.org/10.18662/rrem/15.1/713 - toți autorii au contribuții egale

	<p>Conferințe: 4 Articole neindexate: 2</p>	<p>Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.</p> <ol style="list-style-type: none"> 1. Jitaru, O., Bobu, R., Anghel, I. O. - <i>Social competence and the profile of the student aspiring to the teaching career</i>, în <i>Review of artistic education</i>, nr. 25-26, pp. 229-234, ISSN = 2501 – 238X, ISSN-L = 2069 – 7554, ISSN = 2069 – 7554, Artes Publishing House, România, 2023, Iași. 2. Bobu, R., Jitaru, O.: <i>The students emotional security and coping strategies in the context of the COVID-a9 pandemic</i>, în <i>Revista de Pedagogie/ Journal of Pedagogy</i>, 2022 (1), 31-48. 3. Anghel, O., Jitaru, O., Axinte, R.: <i>Teaching strategies applied by teachers during the pandemic generated by COVID 19</i>, în <i>Review of artistic education</i>, nr. 23-24, pp. 251-257, ISSN 2501-238X, ISSN-L 2069-7554, ISSN 2069-7554, Artes Publishing House, România, 2022, Iași. 4. Bobu, R., Jitaru, O.: <i>Personal and professional development of teachers in the context of the mentoring activity</i>, în <i>LES CAHIERS LINGUATEK, Revue semestrielle du Centre de Langues Modernes Appliquées et Communication LINGUATEK</i>, Universitatea Tehnică Gheorghe Asachi Iași, nr. 11-12, ISSN 2601-0313 ISSN-L 2559-7752, pp 87098, Editura Politehnicum, Iași, 2022. <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Bobu, R., Jitaru, O.: <i>Cognitive distortions and students' self-evaluation</i>, în volumul conferinței Values, education, responsibility. Peagogical research, Eikon Publishing House, coord. Scheau, I., Opriș, D., Aleksandrov, A., ISBN 978-606-49-1303-62024/ https://www.ceeol.com/search/book-detail?id=1285986 2. Jitaru, O., Bobu, R. - <i>Students` resilience and personal development in covid 19 pandemic</i>, coord. Soare, E., Langa, C, în vol. European
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		<p>Proceedings of Educational Sciences / EpES, pp 441-450, e-ISSN: 2672-815X, DOI: 10.15405/epes.23045.46, 2023.</p> <p>3. Bobu, R., Jitaru, O.: <i>Counseling beginning teachers and optimizing teacher-student relationsh</i>, în vol. "Values, models, education. Contemporary perspectives", Editori Opreș, D., Scheau, I., Aleksandrov, A., editura Eikon Publishing House, Bucharest, e-ISBN: 978-606-49-0815-5, doi: https://foi.org/10.56177//epvl.ch22.2022.en, 2022.</p> <p>4. Axinte, R., Jitaru, O. - <i>L activite didactique en ligne. Benefices et dilemes ethique</i>, în coord. Dîrțu, E., Baci, I., vol. Autor et a travers, pp. 95-106, ISBN 978-973-621-508-7, editura Politehnum, Iași, 2022.</p> <p>Articole/studii publicate în volumul unei manifestări științifice neindexate în baze de date</p> <p>1. Bobu, R., Jitaru, O., Cojan, M.: <i>Entrepreneurial skills, successful achievements in career development</i>, în vol „Adaptabilitatea-Competență SOFT în atingerea sustenabilității în context (post) pandemic: abordări interdisciplinare”, coord. Suslenco, A., Melnic, S. ISBN 970-606-687-502-8, pp 23-3, editura acreditată CNSIS, Tehnopress, Iași, 2022.</p> <p>2. Bobu, R., Jitaru, O.: <i>Creativitatea în formarea profesorilor/Creativity in teaching and training</i>, Vol. II, Proceedings of the International Scientific Conference "Genius, talent, creativity" 13th Edition, (coord. M. Rusu), ISBN 978-606-685-9066, pp 116-121, Iasi, Editura Performantica, 2022.</p>
<p>Buburuzan Marinela Adela Ș.L. dr. ing.</p> <p>214.1 Știința Materialelor</p>	<p>-Studii privind procesele de depoluare a unor fluxuri gazoase cu conținut de</p>	<p>Lucrări publicate în reviste recenzate incluse în baze de date internaționale:</p> <p>1 Buburuzan A.M., (2023), Effects of the Relative Humidity of Atmosphere on Performance of n-Hexane Vapors Adsorption Under Static Conditions, <i>Buletinul Institutului Politehnic din Iași: Chimie și Inginerie Chimică</i>, Volumul 69 (73), Numărul 2, 67-79, DOI: 10.5281/zenodo.8162888;</p>

<p>313.1. Analiza și sinteza proceselor tehnologice</p>	<p>compuși organici volatili</p> <p>- Noi materiale nanostructurale</p> <p>Realizări: Articole ISI/BDI: 2 Conferințe: 4 Contracte/granturi: 2</p>	<p>2 Buburuzan A.M., (2020), Adsorptive Performance of Hyper-Crosslinked Polymeric Resins Compared to Granular Activated Carbon for Toluene Vapours, Under Static Conditions and in Humid Environment, <i>Buletinul Institutului Politehnic din Iași: Chimie și Inginerie Chimică</i>, Volumul 66 (70), Numărul 1, 9-20.</p> <p>Lucrări prezentate la diferite manifestări științifice internaționale și naționale recunoscute internațional :</p> <p>1 Elena Fasniuc Pereu, Gabriela Lisa, Adela-Marilena Buburuzan and Laura Bulgariu, <i>Functionalization of PET fibers with alginate: Structural and adsorptive characteristics</i>, International Conference on e-Health and Bioengineering, EHB 2025, 13th Edition, 13-14 November 2025, Hybrid Conference, Iași, Romania - https://www.ehbconference.ro/Portals/0/EHB2025_Detailed_Program.pdf;</p> <p>2 Marilena-Adela Buburuzan, Dynamic behavior and comparative performance of VOCs adsorption on polymeric and carbon-based systems, ICEEM 13 Conference Abstracts Book – <i>Empower Sustainability</i>, 2025, ISSN 2457-7049/ECOZONE, p. 263-265.</p> <p>3 Adela-Marilena Buburuzan, <i>Comparative evaluation of the dynamic adsorption performance of toluene vapors from gaseous streams</i>, ICEEM 12 Conference Abstracts Book, 2023, ISSN 2457-7049/ECOZONE, p. 221-223.</p> <p>4 Adela-Marilena Buburuzan, <i>Comparative VOCs removal from gaseous streams by adsorption onto polymeric resins and activated carbon systems</i>, ICEEM 11 Book of Abstracts, 2021, ISSN 2457-7049/ECOZONE, p. 215-217.</p> <p>Contracte /granturi Membru în echipă</p>
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		<ol style="list-style-type: none"> 1. Grant finanțat COST ACTIONS OC-2023-1-26944, CA23157, <i>European Network for Multiple View Life Cycle Sustainability Assessment</i>, perioada 2024-2026, coordonator rețea națională, responsabil TUIASI – Conf.habil.dr.ing. Brîndușa Slușer, Adela Marilena Buburuzan - membru în echipa proiectului. 2. Grant finanțat de Banca Mondială, program Romanian Secondary Education (ROSE), contract AG nr. 195/SGU/NC/II/13.09.2019, proiect StepUp, ”Îmbunătățirea ratei de retenție a studenților in primul an de studii universitare, prin prevenirea abandonului de la Facultatea Inginerie Chimica si Protecția Mediului "Cristofor Simionescu", val. 700490 lei (TVA inclus), echivalent 150000 Euro, perioada 2019-2022, proiect derulat prin TUIASI_ CCTT Polytech, Universitatea Tehnica “Gheorghe Asachi” din Iasi, director proiect: Conf.habil.dr.ing. Brîndușa Mihaela Slușer, Adela Marilena Buburuzan - membru în echipa proiectului/formator – responsabil grup țintă;
<p>Buciscanu Ingrid Ioana Ș.L. dr. ing.</p> <p>206/302/304/305pr. Fenomene de transfer, utilaje și echipamente pentru industria chimică textilă 1/2/3/proiect</p> <p>2016. Ingineria proceselor in textile si pielarie</p>	<p>- Procese și produse ecoprietenoase</p> <p>-Tehnologii adaptabile producției robotizate</p> <p>- Obținerea de adsorbanți ecologici din resurse regenerabile și utilizarea acestora pentru tratamentul</p>	<p>Lucrări ISI:</p> <ol style="list-style-type: none"> 1. N. Nouj, Z. Majbar, I.I. Buciscanu, A.B. Hamou, A. Chaoui, M. R. Abelouah, M. Idbella, A. Ait Addi, N. Eladlani, A. Zourif, M. Benafqir, N. Hafid, I. Cretescu, A. Jada, N. El Alem, Shrimp shell-derived chito-protein nanocomposites for sustainable dye effluent remediation: efficiency, reusability, and environmental safety, <i>Materials Advances</i> 2026, 7, 1272 – 1290, FI₂₀₂₅ = 4.7. https://doi.org/10.1039/d5ma01010a 2. Nouj N., Majbar Z., Abelouah M.R., Ben Hamou A., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., Soreanu G., Cretescu I. Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation. <i>Journal of Environmental Chemical Engineering</i> 2024; 12, 112318. https://doi.org/10.1016/j.jece.2024.112318

<p>307. Bazele teoretice ale vopsirii și imprimării materialelor textile</p> <p>309. Chimia și structura fibrelor textile I</p> <p>408. Procedee speciale de finisare a materialelor textile</p> <p>411.1. Măsurarea culorii</p> <p>411.2. Stabilirea automată a rețetelor de vopsire și imprimare</p>	<p>poluării din finisajul chimic textile</p> <p>- Procese și produse ecoprietenoase: Funcționalizări sustenabile.</p> <p>- Proiectarea tehnologiilor și produselor cu grad scăzut de agresivitate asupra mediului și calității vieții. Sustenabilitatea în domeniul textilelor tehnice.</p> <p>- Procese și produse ecoprietenoase. Tehnici tradiționale în sfera textilelor și pielăriei.</p> <p>Realizări: Articole ISI/BDI: 7 Articole în străinătate: 6 Conferințe: 7 Contracte/granturi: 6 Coordonare disertații: 9 Cercuri științifice: 6</p>	<ol style="list-style-type: none"> 3. Diaconu M., Soreanu G., Balan C.D., Buciscanu I.I., Maier V., Cretescu I, Study of <i>Spirulina platensis</i> (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation. <i>Water</i> 2023, 15(22), 3962. https://doi.org/10.3390/w15223962 4. Lisa G, Anghel I, Preda D-M, Lisa C, Cretescu I, Buciscanu I.I., Diaconu M, Soreanu G. Moving towards Valorization of Biowastes Issued from Biotrickling Filtration of Contaminated Gaseous Streams: A Thermochemical Analysis-Based Perspective. <i>Sustainability</i>. 2022; 14(17):10737. https://doi.org/10.3390/su141710737 5. Nouj N, Hafid N, El Alem N, Buciscanu I.I., Maier SS, Samoila P, Soreanu G, Cretescu I, Stan CD. Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment. <i>Materials</i>. 2022; 15(8):2803. https://doi.org/10.3390/ma15082803 6. Popescu V, Buciscanu I.I., Pruneanu M, Maier SS, Danila A, Maier V, Pîslaru M, Rotaru V, Cristian IN, Popescu A, et al. Sustainable Functionalization of PAN to Improve Tinctorial Capacity. <i>Polymers</i>. 2021; 13(21):3665. FI₂₀₂₁= 4,967, FI₂₀₂₅=4.9. https://doi.org/10.3390/polym13213665 <p>Reviste indexate BDI</p> <ol style="list-style-type: none"> 1. Melinda PRUNEANU, Ruxandra BUCIȘCANU, Ingrid BUCIȘCANU, Extraction of anthocyanins from <i>Aronia melanocarpa</i>, as a potential natural textile dye, ANNALS OF THE UNIVERSITY OF ORADEA FASCILE OF TEXTILES, LEATHERWORK, Vol. 24, No. 2, 87-93, 2023. https://textile.webhost.uoradea.ro/Annals/AUO_FTL_Vol%2024_no%202%202023.pdf
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		<p>Functionalization of PAN to Improve Tinctorial Capacity. <i>Polymers</i>. 2021; 13(21):3665. FI₂₀₂₁= 4,967, FI₂₀₂₅=4.9</p> <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Romeo Pruneanu, Melinda Pruneanu, Ingrid-Ioana Bucîșcanu, Vasilica Popescu, <i>From Waste Fibers to Functionality: Wool-derived Melanin for Advanced Technical Textiles</i>, Proceedings of the International Symposium "Technical Textiles - Present and Future", Iași, Romania, 20 Nov. 2025, pp. 130-135. https://doi.org/10.2478/9788368412086-toc. 2. Melinda PRUNEANU, Ingrid Ioana BUCIȘCANU, Romeo PRUNEANU, <i>Physicochemical wool functionalization to achieve anti-felting characteristics</i>, Proceedings of The 19th Romanian Textiles and Leather Conference, November 7-9, 2024, Iași, Romania, pp. 176-183. https://doi.org/10.2478/9788367405829-toc. 3. Manuela Lăcrămioara AVĂDANEI, Irina IONESCU, Andreea TALPĂ, Antonela CURTEZA, Mirela BLAGA, Ingrid BUCIȘCANU, Environmental initiatives through gender-based training, Proceedings of The 8th INTERNATIONAL SYMPOSIUM "TECHNICAL TEXTILES - PRESENT AND FUTURE", 23 November 2023 Iasi, ROMANIA, pp.180-187. https://doi.org/10.0000/9788367405355 4. Melinda PRUNEANU, Ingrid-Ioana BUCIȘCANU, Marilena Corina BÎNDEANU: <i>UV-absorbing natural products and their potential applications in sun-protective textiles</i>, PROCEEDINGS of the 18th ROMANIAN TEXTILES AND LEATHER CONFERENCE, 17-19 November 2022, Iasi, Romania, pp. 288-295. https://doi.org/10.0000/9788367405133. 5. Ingrid-Ioana BUCIȘCANU and Melinda PRUNEANU: <i>Tools and courses of action for environmental sustainability in the tanning</i>
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		<p><i>industry</i>, PROCEEDINGS of the 18th ROMANIAN TEXTILES AND LEATHER CONFERENCE, 17-19 November 2022, Iasi, Romania, pp. 280-287. https://doi.org/10.0000/9788367405133.</p> <p>6. Bucișcanu I. and M. Pruneanu, <i>Key elements of sustainability in the field of technical textiles</i>, Proceedings of the 7th International Symposium Technical Textiles – Present and future, Iași, Romania, 12th Nov. 2021, pp. 122-129. https://doi.org/10.2478/9788366675735-021.</p> <p>7. M. Pruneanu, I. Bucișcanu, V. Maier, and S. Toma, <i>Recycling of chamois leather waste into valuable products with potential applications in the field of technical textiles</i>, in Proceedings of the 7th International Symposium Technical Textiles – Present and future, Iași, Romania, 12th Nov. 2021, pp. 179-186. https://doi.org/10.2478/9788366675735-030.</p> <p>Contracte de cercetare (ca membru în colectivul proiectului).</p> <p>1. PRNE/415/PRNE_P1/OP1/RSO1.1/PRNE_A1 - PR/NE/2024/P1/RSO1.1/1/2 - INFRASTRUCTURI CDI - Centrul pentru cercetare – inovare în domeniul textilelor și al industriei modei - SMART-Text-IS, Cod SMIS 334492, Contract 662 / 08.04.2025</p> <p>2. Metaskills - Alliance for Cooperation on Digital and Circular Economy Skills for the TCLF sector across Europe (2023-2026), https://euroleather.com/metaskills-project, ID Proiect: ERASMUS-EDU-2022-PI-ALL-INNO-BLUEPRINT101111842, Buget TUIASI: 2025- 53246 ron, Director proiect: Aura Mihai, Echipa implementare: Aura Mihai, Mariana Costea, Arina Seul, Manuela Avădanei, Luminița Ciobanu, Rodica Harpa, Cristina Piroi, Ingrid Ioana Bucișcanu, Melinda Pruneanu.</p> <p>3. AR4ReClothing - Stimulating gender-based innovative training methods to promote CLOTHING REcycling through Augmented</p>
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<p>Bulgariu Laura Prof. dr. chim.</p> <p>202. Chimie Analitică și analiză instrumentală</p>	<p>-Utilizarea deseurilor de biomasa pentru îndepărtarea metalelor grele din medii apoase</p>	<p>Articole publicate în reviste cotate ISI (selecție)</p> <ol style="list-style-type: none"> 1. L. Munteanu, D. Bulgariu, Laura Bulgariu, Efficient removal of phosphate ions on activated algae biomass: Biosorption characteristics and practical implications, Journal of Environmental Chemical Engineering, 13 (2025) 116341. https://doi.org/10.1016/j.jece.2025.116341

<p>(Chimie analitică 2)-curs</p>	<p>-Elaborarea de procedee ecologice de valorificare a deseurilor de PET</p> <p>Realizări: Articole ISI/BDI: 47+8 Conferințe: 4 Contracte/granturi: 6</p>	<ol style="list-style-type: none"> 2. B.E. Azanfire, D. Bulgariu, N. Cimpoeșu, Laura Bulgariu, Efficient Removal of Toxic Heavy Metals on Kaolinite-Based Clay: Adsorption Characteristics, Mechanism and Applicability Perspectives, <i>Water</i> 17, (2025) 1938. https://doi.org/10.3390/w17131938. 3. H. Liu, Laura Bulgariu, I. Cock, E. Kichamu, H. Zou, T. Li, S.H. Bai, Z. Xu, Global insights into the role of biochar in mitigating antibiotic resistance genes: Key properties and research trends, <i>Ecological Indicators</i>, 178 (2025) 113896. https://doi.org/10.1016/j.ecolind.2025.113896. 4. E. Fasniuc-Pereu, E.N. Drăgoi, D. Bulgariu, M.C. Popescu, Laura Bulgariu, Removal of Rifampicin and Rifaximin Antibiotics on PET Fibers: Optimization, Modeling, and Mechanism Insight, <i>Polymers</i> 2025, 17, 2089 https://doi.org/10.3390/polym17152089. 5. Laura Bulgariu, Ecological Synthesis of Precious Metal Nanoparticles: Harnessing the Potential of Marine Algae Biomass, <i>Nanomaterials</i> 2025, 15(19), 1492. https://doi.org/10.3390/nano15191492. 6. D.I. Fertu, Laura Bulgariu, M. Gavrilescu, Sustainable use of some natural materials and waste for the decontamination of environmental components polluted with heavy metals, <i>Environmental Engineering and Management Journal</i>, 23(7), (2024),1543-1569. http://doi.org/10.30638/eemj.2024.107. 7. D.I. Ferțu, A.A. Ciobanu, I.G. Cara, I. Motrescu, I. Ahmad, G. Nacu, Laura Bulgariu, Circular Approach of Using Soybean Biomass for the Removal of Toxic Metal Ions from Wastewater, <i>Water</i>, 16, (2024), 3663. https://doi.org/10.3390/w16243663. 8. A.A. Ciobanu, A.R. Lucaci, Laura Bulgariu, Efficient metal ions biosorption on red and green algae biomass: Isotherm, kinetic and thermodynamic study, <i>Journal of Applied Phycology</i>, 36, (2024), 3809–3827 https://doi.org/10.1007/s10811-024-03332-9.
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<p>Carja Gabriela Prof. dr. ing</p> <p>203. Chimie fizică 1 (Termodinamică) 207. Chimie fizică 2: Cinetica</p>	<p>-Sinteza nanostructurilor cu aplicații în produse avansate din industria textilă, acoperiri protectoare și protecția mediului</p> <p>-Obținerea de nanoargile - anionice și nonhibrizi derivați cu proprietăți texturale modelabile</p> <p>-Studiul ansamble nanostructurate cu organizare texturală controlată de tip LDH cu aplicații în protecția mediului</p>	<p>Articole publicate în reviste cotate ISI</p> <ol style="list-style-type: none"> Nouaa, S., Aziam, R., Carja, G., Chiban, M., & Froidevaux, R. (2025). Immobilization of <i>Trametes versicolor</i> laccase on LDH/alginate composite beads for improved textile dyes decolorization. <i>International Journal of Biological Macromolecules</i>, 303, 140577. Popa, I. M., Pischetola, C., Krumeich, F., Van Bokhoven, J. A., Carja, G., & Artiglia, L. (2025). Exploiting the LDH Memory Effect in the Carbon Dioxide to Methanol Conversion. <i>Advanced Functional Materials</i>, 2502812. Nouaa, S., Aziam, R., Benhiti, R., Carja, G., Zerbet, M., & Chiban, M. (2024). Exploiting RSM and ANN modeling methods to optimize phosphate ions removal using LDH/alginate composite beads. <i>Journal of Water Process Engineering</i>, 68, 106333. Gilea, D., Seftel, E. M., Van Everbroeck, T., Ababei, G., Cool, P., & Carja, G. (2024). NO reduction with CO on metal nanoparticles/layered double hydroxides heterostructures obtained via the structural memory effect. <i>Catalysis Today</i>, 425, 114342. Mureseanu, M., Cioatera, N., & Carja, G. (2023). Fe-Ce/layered double hydroxide Heterostructures and their derived oxides: electrochemical characterization and light-driven catalysis for the degradation of phenol from water. <i>Nanomaterials</i>, 13(6), 981.

<p>208. Electrochimie și coroziune</p>	<p>- Studiul coroziunii electrochimice</p> <p>Realizări: Articole ISI/BDI: 16</p>	<ol style="list-style-type: none"> 6. Benhiti, R., Bahnariu, T., Carja, G., Sinan, F., & Chiban, M. (2023). Layered double hydroxides with tuned nanoscale morphology as active adsorbents of two industrial dyes from water. <i>Nano-Structures & Nano-Objects</i>, 36, 101043. 7. S Nouaa, R Aziam, R Benhiti, G Carja, S Iaich, M Zerbet, M Chiban, Synthesis of LDH/Alginate composite beads as a potential adsorbent for phosphate removal: kinetic and equilibrium studies, <i>Chemical Papers</i> 77 (11), 6689-6705 8. Benhiti, R., Ait Ichou, A., Aboussabek, A., Carja, G., Zerbet, M., Sinan, F., & Chiban, M. (2023). Efficient removal of Cr (VI) from aqueous solution using memory effect property of layered double hydroxide material. <i>Chemosphere</i>, 341, 140127. 9. Ait Ichou, A., Benhiti, R., Abali, M., Dabagh, A., Carja, G., Soudani, A., ... & Sinan, F. (2023). Characterization and sorption study of Zn₂ [FeAl]-CO₃ layered double hydroxide for Cu (II) and Pb (II) removal. <i>Journal of Solid State Chemistry</i>, 320, 123869. 10. Gilea, D., Ciocarlan, R. G., Seftel, E. M., Cool, P., & Carja, G. (2022). Engineering heterostructures of layered double hydroxides and metal nanoparticles for plasmon-enhanced catalysis. <i>Catalysts</i>, 12(10), 1210. 11. Huang, Y., Liu, Z., Bo, A., Tang, X., Martens, W., Kou, L., ... & Sarina, S. (2022). High efficient arsenic removal by In-layer sulphur of layered double hydroxide. <i>Journal of Colloid and Interface Science</i>, 608, 2358-2366. 12. Zaghoul, A., Benhiti, R., Ait Ichou, A., Carja, G., Soudani, A., Zerbet, M., & Chiban, M. (2021). Characterization and application of MgAl layered double hydroxide for methyl orange removal from aqueous solution. <i>Materials Today: Proceedings</i>, 37, 3793-3797. 13. Zaghoul, A., Ichou, A. A., Abali, M., Benhiti, R., Soudani, A., Carja, G., ... & Sinan, F. (2021). Removal and comparative adsorption of anionic
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		<p>dye on various MgAl synthetic clay. <i>Biointerface Res. Appl. Chem</i>, 11(6), 14986-14997.</p> <p>14. Mureseanu, M., Eliescu, A., Ignat, E. C., Carja, G., & Cioatera, N. (2022). Different routes of MgAl-LDH synthesis for tailoring the adsorption of Pb (II) pollutant from water. <i>Comptes Rendus. Chimie</i>, 25(S3), 1-12.</p> <p>15. Ignat, E. C., Lutic, D., Ababei, G., & Carja, G. (2022). Novel heterostructures of noble plasmonic metals/Ga-substituted hydrotalcite for solar light driven photocatalysis toward water purification. <i>Catalysts</i>, 12(11), 1351.</p> <p>16. Boukarma, L., Aziam, R., Abali, M., Carja, G., Soudani, A., Zerbet, M., ... & Chiban, M. (2021). Algal biomass valorization for the removal of heavy metal ions. In <i>Inorganic-Organic Composites for Water and Wastewater Treatment: Volume 2</i> (pp. 267-302). Singapore: Springer Singapore.</p>
<p>Carlescu Irina Conf. dr. ing.</p> <p>205. Chimie Organică 2</p>	<p>- Noi materiale antiferoelectrice de tip bent-core pe bază de resorcinol cu potențiale aplicații electro-calorice</p> <p>- Filme azo-polimerice nanostructurate utilizate drept suport în cultive celulare</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. Berladean I., Epure, EL., Simion G., Simion A., *Carlescu I., Boussoualem Y., Duponchel B., Hurduc N., Daoudi, A., Chiral unsymmetrical bent-shaped dimers exhibiting cholesteric phases: synthesis, characterisation and liquid crystalline properties, <i>Liquid Crystals</i>, 52, 2025, DOI10. 10.1080/02678292.2025.2489434</p> <p>2. Ciobanu C., Epure EL., Soroaga L., Simion A., Lisa G., *Carlescu, I., Effects of the Central Unit Structure, Lateral Substitution and Symmetry on the Mesomorphic Behavior of Some Bent-Core Azoester Derivatives, <i>ChemistryOpen</i>, 14, 2025, DOI10.1002/open.202400454</p> <p>3. Berladean I., Epure E.L., Ciobanu C.I., *Carlescu I., Boussoualem Y., Danjou P.E., Bhat V, Duponchel B., Hurduc N., Daoudi A., Novel</p>

	<p>- Cristale lichide de tip bent-core cu potențială aplicabilitate în microelectronică</p> <p>- Polimeri multifuncționali fotosensibili pentru aplicații biologice</p> <p>Realizări: Articole ISI/BDI: 8 Conferințe: 4 Contracte/granturi: 2</p>	<p>antiferroelectric materials with resorcinol-based symmetrical fluorinated bent-core mesogens, <i>Journal of Molecular Liquids</i>, 388, 2023, DOI10.1016/j.molliq.2023.122753.</p> <p>4. Dragoi E.N., Carlescu I., Puf R., Vasiliu T., Epure E.L., Neuro-Evolutive Modeling of Transition Temperatures for Five-Ring Bent-Core Molecules Derived from Resorcinol, <i>Crystals</i>, 13(4), 2023, DOI10.3390/cryst13040583.</p> <p>5. Epure E.L., Lisa G., Simion G., Simion A., Ciobanu, C.I., *Carlescu I., Thermal behavior, decomposition mechanism by TG/MS/FTIR technique and theoretical study of some symmetric and asymmetric bent-core liquid crystals based on 2,7-dihydroxynaphthalene, <i>Journal of thermal analysis and calorimetry</i>, 147(21), 12033-12045, 2022, DOI10.1007/s10973-022-11378-5.</p> <p>6. Tripathi A.S.M., Kondratenko K., Duponchel B., Hurduc N., Carlescu I., Boussoualem Y., Daoudi A. Orientation in large-area semiconducting 2-amino-anthracene thin films fabricated by dynamic floating film transfer method, <i>Thin Solid Films</i>, 742, 139044, 2022, DOI: 10.1016/j.tsf.2021.139044.</p> <p>7. Ciobanu C. I., Berladean I, Epure E.-L., Simion A, Lisa G., Boussoualem Y., *Carlescu I. Mesomorphic and Thermal Behavior of Symmetric Bent-CoreLiquid Crystal Compounds Derived from Resorcinol andIsophthalic Acid, 11, 10, 2-15, 2021, DOI: 10.3390/cryst11101215.</p> <p>8. Kondratenko K., Carlescu I., Danjou P.-É., Boussoualem Y., Simion Aurel, Duponchel B., Blach J.-F., Legrand C., Hurduc N., Daoudi A. Novel organic semiconductors based on2-amino-anthracene: Synthesis, charge transport andphoto-conductive properties, <i>Physical Chemistry Chemical Physics</i>, 23, 25, 13885-13984, 2021. DOI: 10.1039/d1cp01427g.</p>
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<p>Cașcaval Dan Prof. dr. ing</p> <p>312.1. Biotehnologie Generală</p>	<p>- Studiul degradării lipidelor sub acțiunea diferitelor microorganism</p> <p>-Studiul proceselor de separare a acizilor carboxilici</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Lazar, RG; Blaga, AC; Dragoi, EN; Galaction, AI; Cascaval, D, Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier, Separation and Purification Technology 2021, 255, 117740. 2. Galaction, AI; Blaga, AC; Tucaliuc, A; Kloetzer, L; Cascaval, D, Modelling of ergosterol production by <i>S. cerevisiae</i> in presence of n-dodecane as oxygen-vector, ROMANIAN Biotechnological Letters 2021, 26 (2), 2464-2470. 3. Blaga, AC; Cascaval, D; Galaction, AI - Improved Production of alpha-Amylase by <i>Aspergillus terreus</i> in Presence of Oxygen-Vector, Fermentation 2022, 8 (6), 271. 4. Blaga, A.C.; Dragoi, E.N.; Munteanu, R.E.; Cascaval, D.; Galaction, A.I. Gallic Acid Reactive Extraction with and without 1-Octanol as Phase Modifier: Experimental and Modeling. Fermentation 2022, 8,633. 5. Kloetzer, L; Blaga, A.C.; Cascaval, D; Galaction, AI - Selective pertraction of dicarboxylic acids from simulated <i>Rhizopus oryzae</i> fermentation broths, Scientific Reports 2023, 13 (1). 6. Blaga, A.C.; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling. Molecules 2023, 28, 3339. 7. Blaga, A.C.; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling. Molecules 2023, 28, 3339. 8. Blaga, A.C.; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - Selective separation of
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		<p>vitamin C by reactive extraction using ionic liquid: Experimental and modelling, Journal of Industrial and Engineering Chemistry, 2024.</p> <p>9. Blaga, A.C.; Kloetzer, L.; Cascaval, D.; Galaction, A.-I.; Tucaliuc, A. Studies on Reactive Extraction of Itaconic Acid from Fermentation Broths. Processes 2024, 12, 725.</p> <p>10. Blaga, A.C., Dragoi, E.N., Tucaliuc, A., Kloetzer L., Puitel A.C., Cascaval, D., Galaction, A.I. - Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids - Experimental, modelling and optimisation with Artificial Neural Networks, Heliyon, 2024, 10(16), e36113.</p> <p>11. Dragoi, E.N., Blaga, A.C. (corresponding author), Cascaval, D., Galaction, A.I. - Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids, Journal of Molecular Liquids, 2024, 410, 125564.</p> <p>12. Turcov, D.; Paraschiv, M.; Blaga, A.C.; Tucaliuc, A.; Cascaval, D.; Galaction, A.-I. Natural Oils as Green Solvents for Reactive Extraction of 7-Aminocephalosporanic Acid: A Sustainable Approach to Bioproduct Recovery in Environmental Biotechnology. Biomolecules 2025, 15, 1371.</p> <p>13. Blaga, A.C., Dragoi, E.N., Cascaval, D. et al. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. Sci Rep 2025 15, 42677.</p> <p>14. Blaga, A.C.; Parvulescu, O.C.; Cascaval, D.; Galaction, A.I. Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids. Int. J. Mol. Sci. 2025, 26, 8970.</p>
<p>Catrinescu Cezar Florin</p>		<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p>

<p>Prof. dr. ing.</p> <p>214.1. Știința Materialelor</p>	<p>- Materiale avansate pentru eliminarea micropoluantilor organici din ape</p> <p>- Conversia unor molecule din biomasă prin procese catalitice nepoluante (green chemistry)</p> <p>- Materiale avansate pentru conversia catalitica a poluanților și a moleculelor provenite din biomasă</p> <p>- Procese catalitice avansate pentru eliminarea micropoluantilor organici din ape</p> <p>Realizări: Articole ISI/BDI: 4 Conferințe: 8 Contracte/granturi: 3</p>	<ol style="list-style-type: none"> 1. Ungureanu A., Bectoraș M., Ciotonea C., Gennequin C., Royer S., Catrinescu C., (2025), Iron oxide nanoparticles confined in SBA-15 via melt infiltration as efficient Fenton-like catalysts for lindane degradation, Journal of Environmental Chemical Engineering, 13, 120462. IF=7,2 Q1 2. Ciotonea C., Wei Y., Ungureanu A., Catrinescu C., Gardol O., Mamede A.-S., Dumeignil F., Paul S., Jalowiecki-Duhamel L., Royer S. (2023). Ni(0) Ex-Phyllosilicates as Efficient and Stable Low Temperature CH4 Dry Reforming Catalyst, ChemCatChem, 15 (14), e202300245 IF=4.5 Q2 3. Teles, C. A., Ciotonea, C., Gomes, N., Gonçalves, V. O. O., Ungureanu, A., Catrinescu, C., Richard, F. (2022). Hydrodeoxygenation of m-cresol over Pd/Al-SBA-15 catalysts: Effect of al content on the deoxygenation reaction pathways. Applied Catalysis A: General, 641, art. no. 118686 IF=5.5 Q2 4. Ciotonea, C., Chiriac, A., Dragoi B., Catrinescu C., E., Royer, Ungureanu, A. (2022). Cu–Ga2O3 nanoparticles supported on ordered mesoporous silica for the catalytic hydrogenation of cinnamaldehyde, Comptes Rendus Chimie, 25 (S3), 1-14 <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Cezar Catrinescu, Adrian Ungureanu, Advanced Oxidation Processes: Catalysts for Water Reuse in the Circular Economy, 13th International Conference on Environmental Engineering and Management (ICEEM), September 17-20, 2025, Iasi, Romania 2. Catrinescu, Cezar; Ungureanu, Adrian; Bectoraș, Mihaela; Ursu, Ana; Ciotonea, Carmen; Royer, Sebastien; Fenton-like oxidation of lindane over iron oxide nanocatalysts conned within the intra-wall pores of SBA-
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		<p>15 7th International Advanced Oxidation Processes, 8-10 aprilie 2025, Frankfurt</p> <p>3. Mihaela Bectoraş, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Copper Nanoparticles Stabilized on Mesoporous Silica via Deposition-Precipitation for the Selective Hydrogenation of Biomass-Derived Levulinic Acid To γ-Valerolactone, 13th International Conference on Environmental Engineering and Management (ICEEM), September 17-20, 2025, Iasi, Romania</p> <p>4. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Cédric Gennequin, Synthesis of highly active and stable Cu nanoparticles encapsulated in mesoporous silica for hydrogenation of levulinic acid, International Congress on Catalysis, July 14-19, 2024, Lyon, France.</p> <p>5. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Enhanced Oxidative Degradation of Reactive Red 120 Using Heterogeneous Fenton Catalysts based on Iron Oxide Nanoparticles Confined within the Pores of SBA-15 Silica, 7th International Conference of the Doctoral School, May 15-17, 2024, Iasi, Romania</p> <p>6. Cezar Catrinescu, Mihaela Bectoras, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer, Heterogeneous Fenton-like Oxidation of Reactive Red 120 Azo Dye over Iron Oxide Nanoparticles Confined in SBA-15 Mesoporous Silica, 12th International Conference on Environmental Engineering and Management (ICEEM), September 13-16, 2023, Iasi, Romania.</p> <p>7. Mihaela Bectoras, Cezar Catrinescu, Adrian Ungureanu, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Synthesis of highly active and stable Cu nanocatalysts encapsulated in mesoporous silica for the selective hydrogenation of levulinic acid to γ-valerolactone, 6th</p>
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		<p>International Conference of the Doctoral School, May 17-19, 2023, Iasi, Romania.</p> <p>8. Cezar Catrinescu, Adrian Ungureanu, Irina Mazilu, Carmen Ciotonea, Emil Dumitriu, Sébastien Royer, <i>Lindane removal by Fenton-like Oxidation over Iron Oxide Nanoparticles Confined in SBA-15 Mesoporous Silica</i>, Proceedings of the XVth International Symposium on Environment, Catalysis and Process Engineering, November 23-25, 2021, ECGP virtual, pp. 34-35.</p> <p>Contracte de cercetare.</p> <ol style="list-style-type: none"> 1. Grant PHC – Brâncuși - <i>Advanced catalytic nanomaterials for environmental applications (CatEnA)</i>, PN-IV-P8-8.3-PM-RO-FR-2024-0152, UEFISCDI, Project member 2. Grant GNaC-ARUT - <i>Sinteza, caracterizarea și utilizarea nanoparticulelor de oxid de fier, conținute în silicea mezoporoasă de tip SBA-15, pentru oxidarea Fenton a unor poluanți organici persistenți</i>, cod/ID: GnaC 2023_253, Granturi naționale de cercetare – Alianța Română a Universităților Tehnice, 01.02.2024-30.04.2025 (echivalentul a 10.000 euro) director de proiect 3. Contract nr.173/24.11.2023 – <i>Servicii de asistență tehnică privind modul de utilizare și funcționare al echipamentului dedicat analizei de trihalometani GC Agilent 8890</i>, Beneficiar APAVITAL S.A., 21-11.2023- 15.02.2024, 4000 lei + TVA, director de contractt
<p>Chiriac Bogdan Ș.L. dr. ing.</p>	<p>- Cercetări privind procesele</p>	<p>Lucrări indexate ISI/BDI publicate în ultimii 10 ani</p> <ol style="list-style-type: none"> 1. Cojocaru, D., Ianuș, G., Cârlescu, V., Chiriac, B., & Olaru, D. (2025). Friction Torque in Miniature Ball Bearings. <i>Lubricants</i>, 13(1), 12. https://doi.org/10.3390/lubricants13010012 2. Cojocaru, D., Ianuș, G., Cârlescu, V., Chiriac, B., & Olaru, D. (2025). Grease Film Behavior in Ball Bearings. <i>Lubricants</i>, 13(10), 429.

<p>209. Elemente de inginerie mecanică (curs)</p>	<p>de frecare și de uzare în tribosisteme de alunecare cu suport de sticlă</p> <p>Realizări: Articole ISI/BDI: 9 Conferințe: 1 Contracte/granturi: 3</p>	<ol style="list-style-type: none"> 3. Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024a). Glass Wear with Different Powders (Eutalloy Tung Tec, Metco 82VF-NS and MTS 8013). <i>Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section</i>, 70(3), 35–44. https://doi.org/10.2478/bipcm-2024-0014 4. Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024b). Wear of Glass with Soft Materials. <i>Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section</i>, 70(3), 57–64. https://doi.org/10.2478/bipcm-2024-0016 5. Achitei, G., Dontu, A. I., Chiriac, B., & Popescu, A. (2023). <i>State-of-the-Art and Future Trends of Thermoelectric Generation Systems in Automotive Industry</i> (pp. 1–8). https://doi.org/10.1007/978-3-031-45964-1_1 6. Cârlescu, V., Opreșan, C. M., Chiriac, B., Ianuș, G., & Olaru, D. N. (2022). <i>Influence of Hand Sanitisers on the Friction Properties of the Finger Skin Amid the COVID-19 Pandemic</i> (pp. 420–428). https://doi.org/10.1007/978-3-030-79165-0_39 7. Cârlescu, A. Tufescu, B. Chiriac, V., Opreșan, C. M. <i>Modelling of Static and Kinetic Friction Coefficient in Stick-slip Motion</i>. International Conference Innovation In Engineering, 392-401 8. Chiriac, B., Opreșan, C. M., Carlescu, V., & Olaru, D. N. (2022). Friction coefficient between glass surfaces and soft materials. <i>IOP Conference Series: Materials Science and Engineering</i>, 1262(1), 012004. https://doi.org/10.1088/1757-899X/1262/1/012004 9. Opreșan, C. M., V. Cârlescu, Chiriac, B., <i>A simplified friction force model of transient sliding contact between hard and soft surfaces</i>. BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI Volumul 70 (74), Numărul 4, 2024 DOI:10.2478/bipcm-2024-0018
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<p>Ciurariu Gabriela Lector dr.</p> <p>315.2.Economie industrială</p>	<p>-Protecția proprietății intelectuale – coordonată a dezvoltării pieței informațiilor în economia modernă</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Mihaela-Nona Chilian, Marioara Iordan, Gabriela CIURARIU, <i>Green transition and the business sector in the European Union and Romania</i>, <i>Holistica Journal of Business and Public Administration</i>, ISSN L2067-9785, nr. 14/2023, DOI:10.2478/hjbpa-2023-0015 <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Marioara Iordan, Mihaela-Nona Chilian, Gabriela CIURARIU, <i>Medium-Term Demographic and Economic Transition in the Macro-Region 1 of Romania</i>, în volumul INTERNATIONAL SCIENTIFIC

	<p>Realizări: Articole ISI/BDI: 1 Conferințe: 7</p>	<p>EVENT ECONOMY-HISTORY-SOCIETY -5-th edition Regional sustainable development through competitiveness, inovation and human capital -XII edition, Vasile Goldiș Western University of Arad, Romanian Academy, 6-7 November 2025</p> <p>2. Gabriela CIURARIU, Marioara Iordan, Mihaela-Nona Chilian, <i>The labor market in Romania, a challenge for young people</i>, în volumul 13th International Conference EUROPEAN PERSPECTIVES ON THE LABOUR MARKET – INNOVATION, COMPETENCES, PERFORMANCE – MOVING TOWARDS THE NEW NORMAL, 20th — 21th November 2025, Bucharest</p> <p>3. Gabriela CIURARIU, <i>Analysis of the company's profitability using the rate method</i>, în volumul International Conference Knowledge Economy-Challenges of the 21st Century-Europe strategic choices in the face of global Challenges, Pitești, 27 november 2025</p> <p>4. Gabriela CIURARIU, <i>Values of auditing company after the covid-19 pandemic</i>, în volumul The 9th Edition of the International Conference TRENDS IN THE CURRENT ECONOMIC ENVIRONMENT 12-13 December, 2024, Hyperion” University Bucharest</p> <p>5. Marioara Iordan, Mihaela-Nona Chilian, Gabriela CIURARIU, Resilience of the Romanian Regions and Counties: A Medium-Term View, în volumul The 10-th International Conference REGIONAL SUSTAINABLE DEVELOPMENT– THROUGH COMPETITIVENESS, INNOVATION AND HUMAN CAPITAL, 26 October 2023, Baia Mare</p> <p>6. Marioara Iordan, Mihaela-Nona Chilian, Gabriela CIURARIU, <i>SOME RECENT DEMOGRAPHIC AND OCCUPATIONAL TRENDS IN THE ROMANIAN LABOUR MARKET</i>, 11th International Conference European Perspectives on the Labour Market, 28-29 november 2023, București</p>
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		7. Gabriela CIURARIU, <i>The financing of Romanian companies before and after the onset of the Covid 19 pandemic</i> , International Conference Inclusive and sustainable economic growth. Challenges, measures and solutions, Transilvania University of Braşov, Romania, 27 May-2021.
<p>Creţescu Igor Prof. dr. ing.</p> <p>303. Optimizarea proceselor tehnologice</p>	<p>-Epurarea recuperativa prin schimb ionic a colorantilor ionici (anionici/cationici) din apele uzate provenite din industria textila.</p> <p>Realizări: Articole ISI/BDI: 28 Invenții: 3 Contracte/granturi: 6</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale</p> <ol style="list-style-type: none"> 1. Doumbi RT, Muguirrima PVM, de Morais A, Bohn F, Martinez-Huitle CA, Cretescu I, Correa MA (2025), High Efficiency of the Graphene-Decorated Boron Nitride for Dye Removal from Aqueous Solution: Modeling and Optimization Process Designed for Textile Wastewater Treatment, <i>ACS Omega</i> 10, 43: 51686-51699. 2. Soreanu G., Tanase C., Mardari C., Cretescu I, (2025), Assessment of air purification biosystems for environmental applications, <i>Process Safety and Environmental Protection</i>. 195, 106742 3. Ramona Elena Tataru-Farmus, Maria Harja, Lucia Tonucci, Liliana Lazar, Gabriela Soreanu, Igor Cretescu (2025), Green CO2 Capture from Flue Gas Using Potassium Carbonate Solutions Promoted with Amino Acid Salts, <i>Clean Technologies</i> 7, 4: 1-18. 4. Loredana-Vasilica Postolache, Gabriela Soreanu, Igor Cretescu, Nita Tudorachi, Daniela Rusu, Mirela-Fernanda Zaltariov, Ion Anghel, Dana Maria Preda, Gabriela Lisa (2025), Studies on energy recovery from microalgae and plants wastes, <i>Biomass and Bioenergy</i> 206, art 108586. 5. Loredana-Vasilica Postolache, Gabriela Soreanu, Igor Cretescu, Nita Tudorachi, Ion Anghel, Dana Maria Preda, Daniela Rusu, Mirela-Fernanda Zaltariov, Jose Luis Valverde, Gabriela Lisa (2025), Alternative energy sources from wastes and microalgae Chlorella vulgaris used for the capture of atmospheric CO2 in the production of cement, <i>Materials Today Sustainability</i> 31, art 101175.

		<ol style="list-style-type: none"> 6. Gabriela Lisa, Igor Cretescu, Catalin Tanase, Constantin Mardari, Nita Tudorachi, Andra-Cristina Enache, Petrisor Samoila, Gabriela Soreanu (2025). Assessment of Hedera helix response in polluted environment through cross-advanced investigation techniques, <i>Journal of Thermal Analysis and Calorimetry</i> 150: 9181–9194. 7. Lisa G., Cretescu I., Enache A.C., Tanase C., Samoila P., Mardari C., Soreanu G. (2025). Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy, <i>Renewable and Sustainable Energy Reviews</i>, 207, 114890. 8. Postolache L.V., Soreanu G., Cretescu I., Lisa G. (2025). Analysis of the thermal behaviour of various wastes co-processed in cement plants, <i>Environmental Engineering and Management Journal</i>, 24(1), 211-221. 9. Nouj N., Majbar Z., Abelouah M.R., Hamou A.B., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., Soreanu G., Cretescu I. (2024) Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation. <i>Journal of Environmental Chemical Engineering</i> 12, 112318. 10. Soreanu G., Tanase C., Mardari C., Gorgan D.L., Cretescu I. (2024). Physiological Investigations of the Plants Involved in Air Biofiltration: Study Case. <i>Sustainability</i> 16, 1529. 11. Muslim Hasan Allawi, Riyadh Sadiq ALMukhtar, Shurooq Talib Al-Humairi, Ali Dawood Salman, Tatjana Juzsakova, Viktor Sebestyén, Igor Cretescu (2023). Degradation of diisopropyl methylphosphonate in aqueous solutions by ultrasonic irradiation combined with oxidation process. <i>Chemistry Journal of Moldova</i> 18 (2), 28-34.
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<p>Dănăilă Vanda Ligia Ș.L. dr. ing.</p>		<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Dănăilă, V. L., Ignătescu – Manea, I. – Influence of parameters of the electro-hydraulic deforming equipment on the geometric characteristics of workpiece - JIDEG Journal of Industrial Design and Engineering

<p>108. Grafică asistată de calculator</p>	<p>- Aplicații ale geometriei descriptive în fabricarea unor semifabricate din tablă</p> <p>Realizări: Articole ISI/BDI: 4 Contracte/granturi: 1</p>	<p>Graphics, no. 19 (Special issue), Cluj-Napoca, 4 pag., ISSN 1843-3766, 2024.</p> <p>2. Ignătescu – Manea, I., Dănăilă, V. L. – Study on improving the teaching methods of graphic disciplines after the pandemic - JIDEG Journal of Industrial Design and Engineering Graphics, no. 19 (Special issue), Cluj-Napoca, 6 pag., ISSN 1843-3766, 2024.</p> <p>3. Anghel, A. A., Dănăilă, V. L. – Online teaching of graphic courses in the pandemic, JIDEG Journal of Industrial Design and Engineering Graphics http://sorging.ro/jideg/index.php/jideg, 4 pag., ISSN 2344-4861, 2023.</p> <p>4. Dănăilă, V. L., Anghel, A. A. – Considerations on the shape of discharging chambers for the electro-hydraulic deforming method, JIDEG Journal of Industrial Design and Engineering Graphics http://sorging.ro/jideg/index.php/jideg, 4 pag., ISSN 2344-4861, 20232022, 2023.</p> <p>Contracte de cercetare.</p> <p>1. Grant ROSE nr. 83/SGU/CI/I 2019 – 2022 „Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TU IAȘI (REMEDIUM)”, director de contract Seghedin M. E., valoare 906138 RON, 2019 – 2022.</p>
<p>Dănilă Angela Conf. dr. ing.</p> <p>402. Procese si utilaje pentru finisarea textilelor I</p> <p>406. Procese si utilaje pentru</p>	<p>- Proiectarea tehnologiilor și produselor cu grad scăzut de agresivitate asupra mediului și calității vieții</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. Lotos, E., Danila, A., Vasiliu, A., Rosca, I., Stroian, D., Simionescu, B. C., Mihai, M. (2024). The potential emulsions of xanthan gum and Daucus carota macerated oil in functional textiles for skincare applications: Formulation, characterization, and performance evaluation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 682, 132960. https://doi.org/10.1016/j.colsurfa.2023.132960, Accession Number WOS:001138452500001</p>

<p>finisarea textilelor II</p> <p>413.1.Tehnologia finisării materialelor textile din fibre naturale</p> <p>413.2.Tehnologia finisării materialelor textile din fibre chimice</p> <p>414.1.Procese și utilaje în finisarea materialelor textile din fibre naturale/</p> <p>414.2.Procese și utilaje în finisarea materialelor textile din fibre chimice</p>	<p>- Proiectarea și adaptarea tehnologiilor chimice în spiritul devizei „chimie curată”. Procese pentru obtinerea de materiale textile multifuncționale.</p> <p>Realizări: Articole ISI/BDI: 9 Conferințe: 2 Contracte/granturi: 6 Coordonare disertații: 4 Cercuri științifice: 5</p>	<p>https://www.webofscience.com/wos/woscc/full-record/WOS:001138452500001</p> <p>2. Cuturicu, L. L., Radu, C. D., Rusu, A. R., Lacătușu, C., Danila, A., Rîmbu, C. M., Munteanu, C., Istrate, B., Scripcariu, V., Lupascu, G., Luca, S. (2023). Studies on release of rifampicin from chitosan-based hydrogel. Cellulose Chemistry and Technology, DOI10.35812/CelluloseChemTechnol.2023.57.26, Accession Number WOS:001005161600004. https://www.webofscience.com/wos/woscc/full-record/WOS:001005161600004</p> <p>3. Cuturicu, L. L., Macarel, V. C., Rusu, R. A., Lacatusu, C., Danila, A., Statescu, L., Rimbu, C. M., Radu, C. D., Luca, S. (2023). A textile device for the therapy of patients with burn wounds by the use of a drug delivery from a hydrogel to dermis. Journal of Engineered Fibers and Fabrics. https://doi.org/10.1177/15589250231166113, DOI10.1177/15589250231166113, Accession Number WOS:001103968900001.https://www.webofscience.com/wos/woscc/full-record/WOS:001103968900001</p> <p>4. Rosu, G., Muresan, E. I., Spac, A. F., Diaconu, M., Ciolacu, D.E., Danila, A., Tita, C., Muresan, A. (2023). Aromatherapeutic and Antibacterial Properties of Cotton Materials Treated with Emulsions Containing Peppermint Essential Oil (Menthae piperitae aetheroleum). Polymers, 15(10), 2348. https://doi.org/10.3390/polym15102348 Accession Number WOS:000996614200001</p> <p>5. Danila, A., Costea, M., Profire, L., Rimbu, C. M., Baican, M., Lupascu, F., Tatarusanu, S., Profire, B., Muresan, E. (2021). A Sustainable Approach to a Cleaner Production of Antimicrobial and Biocompatible Protein Fibers. Polymers, 14(15), 3194.</p>
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<p>Drăgoi Elena Niculina Ș.L. dr. ing.</p>		<p>Lucrari stiintifice publicate in reviste cotate ISI sau indexate in baze de date internationale.</p> <p>Articole publicate in reviste cotate ISI</p>

<p>306. Automatizarea proceselor din industria chimică-aplicații</p>	<p>- Sinteza asistată de calculator a sistemelor din industria chimică</p> <p>Realizări: Articole ISI/BDI: 32 Lucrare în revistă CNCSIS: 1 Invenții: 1 Contracte/granturi: 4</p>	<ol style="list-style-type: none"> 1. Blaga AC, Dragoi EN, Cascaval D, Puitel AC, Galaction AI. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. <i>Scientific Reports</i>, 15, art no 42677, 2025. 2. Wu T, Zare N, Li Y, Zhang DX, Dragoi EN, Aminabhavi TM, Karimi-Maleh H. 3D printed monolithic adsorbent for removal of Congo red and silver ions: Batch and fixed bed column studies. <i>Chemical Engineering Journal</i>, 519, art no 164865, p. 1-19, ISSN: 1385-8947, 2025, DOI: 10.1016/j.ccej.2025.164865. 3. Marcoie N, Toma IO, Chihaiia S, Hraniciuc TA, Toma D, Balan CD, Dragoi EN, Nechita MT. Anthropogenic River Segmentation Case Study: Bahlui River from Romania. <i>Hydrology</i>, 12(9), art no 224, p. 1-23, 2025, DOI: 10.3390/hydrology12090224. 4. Fasniuc-Pereu E, Drăgoi EN, Bulgariu D, Popescu MC, Bulgariu L. Removal of rifampicin and rifaximin antibiotics on PET fibers: Optimization, modeling and mechanism insight. <i>Polymers</i>, 17(15), 2089, p. 1-24, 2025, DOI: 10.3390/polym17152089. 5. Lara-Montañó OD, Gómez-Castro FI, Gutiérrez-Antonio C, Dragoi EN. Success-Based Optimization Algorithm (SBOA): Development and enhancement of a metaheuristic optimizer. <i>Computers and Chemical Engineering</i>, 194, art no 108987, p. 1-15, ISSN: 0098-1354, 2025, DOI: 10.1016/j.compchemeng.2024.108987. 6. Wu, T; Karimi-Maleh, H; Li Y; Zhang, Z; Zhang, D; Wen, Y; Fu, L; Zhong, N; Dragoi, EN; Aminabhavi, TM. 3D printed monolithic nanocomposites as adsorbents to remove Congo red and mercury (II) from wastewater. <i>Chemical Engineering Journal</i>, 501(1), art no 157710, ISSN: 1385-8947, 2024, DOI: 10.1016/j.ccej.2024.157710. 7. Ahmadi, F; Samadi, MT; Godini, K; Moradi, S; Dragoi, EN; Suditu, GD. An Approachable Anaerobic Bioreactor for Remote Biogas Production: Experimental Analysis and Neuroevolution Modeling. <i>International</i>
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		<p>protecției atmosferei și a schimbărilor climatice. PN-III-P2-2.1-PED2019-1165,2020-2022, director: Gabriela Soreanu [National]</p> <p>2. From human to virus. optimization algorithms with chemical engineering applications. PN-III-P4-ID-PCE2020-1520, 2021-2023, director: Silvia Curteanu [National]</p> <p>3. Biofiltration of air from urban automotive underground spaces. PN-III-P4-ID-PCE-2020-0551, 2021 - 2023, director: Gabriela Soreanu [National]</p>
<p>Franke Bianca Iuliana Lector dr.</p> <p>111.1. Limba engleză 1 111.3. Limba germană 1</p> <p>213.1. Limba engleză 2 213.3. Limba germană 2</p>	<p>-Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study</p> <p>- Perfectionarea metodologiei predării limbii germane -Perfectionarea metodologiei predării limbii engleze</p> <p>Realizări: Articole ISI/BDI: 2 Conferințe: 10</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> Bianca-Iuliana Franke (Misinciuc), <i>Conceptualization, symbolism and metonymy as mechanisms of metaphorical meaning in idiomatic expressions: Interlinguistic comparison</i>, Buletinul Institutului Politehnic din Iași, Volumul 70 (74), nr. 3-4, Secția Științe Socio-umane, 2024, ISSN 1224-5860, pp. 21-34, baza de date CEEOL. Bianca-Iuliana Franke (Misinciuc), <i>Unique words and the cultural concepts behind them: discovering the world through language</i>, Les Cahiers Linguatex, Volumul 7, nr. 13-14, 2023, ISSN 2601-0313, ISSN-L 2559-7752, pp. 190-196, baze de date FABULA, CEEOL. <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> Bianca-Iuliana Franke (Misinciuc), <i>The miserable empath. About the dark side of emotional intelligence</i>, 12th International Conference: Synergies in Communication (SiC), Section 6: Multidisciplinary Approaches to Human Experience, Editura ASE, ISSN 2668-9375, București, 2025. Bianca-Iuliana Franke (Misinciuc), <i>The curse of intelligence: The lone genius and the mad scientist</i>, Mad Science International

		<p>Interdisciplinary Conference. Innovation, Genius, Madness, Les Cahiers Linguatek 15-16, Editura Politehniun, Iași, 2024.</p> <ol style="list-style-type: none"> 3. Bianca-Iuliana Franke (Misinciuc), <i>Natural mechanisms, pedagogical techniques and potential challenges in the process of multilingual language acquisition in a young child</i>, Values, systems, education. Challenges and Perspectives, International Conference „Education in the Perspective of Values”, XVth edition, Editura Eikon, e-ISBN 978-606-49-1052-3, București, 2023. 4. Bianca-Iuliana Franke (Misinciuc), <i>Humour in variants of idiomatic expressions</i>, Means and meanings of communication, Section: Language and Communication, The Proceedings of the International Conference „Communication, Context, Interdisciplinarity”, Volume no. 7, Editura Arhipelag XXI Press, ISBN 978-606-93691-9-7, Tîrgu Mureș, 2022. 5. Bianca-Iuliana Franke (Misinciuc), <i>The miserable empath. About the dark side of emotional intelligence</i>, 12th International Conference: Synergies in Communication (SiC), Section 6: Multidisciplinary Approaches to Human Experience, Editura ASE, ISSN 2668-9375, București, 2025. 6. Bianca-Iuliana Franke (Misinciuc), <i>Conceptualization, symbolism and metonymy as mechanisms of metaphorical meaning in idiomatic expressions: Interlinguistic comparison</i>, Buletinul Institutului Politehnic din Iași, Volumul 70 (74), nr. 3-4, Secția Științe Socio-umane, 2024, ISSN 1224-5860, pp. 21-34, baza de date CEEOL. 7. Bianca-Iuliana Franke (Misinciuc), <i>The curse of intelligence: The lone genius and the mad scientist</i>, Mad Science International Interdisciplinary Conference. Innovation, Genius, Madness, Les Cahiers Linguatek 15-16, Editura Politehniun, Iași, 2024. 8. Bianca-Iuliana Franke (Misinciuc), <i>Natural mechanisms, pedagogical techniques and potential challenges in the process of multilingual</i>
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Harja Maria Prof. dr. ing. 313.2. Bazele inginerii chimice 316. Managementul proiectelor si comunicare stiintifica	- Influența conținutului de carbonat de calciu asupra proprietăților vopselurilor pe baza de apă - Îmbunătățirea comunicării științifice în domeniul de cercetare aferent industriei chimice Realizări: Articole ISI/BDI: 44+14 Contracte/granturi: 13	Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale. 1. N. El Messaoudi, Y. Miyah, J. Georgin, D. S. P. Franco, A. N. Amenaghawon, B. Sardi, A.M. Al-Msiedeen, M. Harja*, Removal of kerosene from wastewater: current trends and emerging perspectives for environmental remediation, Sustainability 2026, 18(1), 277; https://doi.org/10.3390/su18010277 2. Tataru-Farmus R.E., Harja M*., Tonucci L, Coccia F., Ciulla M., Lazar L., Soreanu G. and Cretescu I., Green CO2 Capture from Flue Gas Using Potassium Carbonate Solutions Promoted with Amino Acid Salts, Clean Technol. 2025, 7(4), 99; https://doi.org/10.3390/cleantechnol7040099 3. Innovation in the Use of Recycled and Heat-Treated Glass in Various Applications: Mechanical and Chemical Properties Epure, C.; Munteanu, C.; Istrate, B.; Harja, M.; Lupu, F.C.; Luca, D. Coatings 2025, 15,651. https://doi.org/10.3390/coatings15060651 , WOS:001514706200001, ISSN - 2079- 6412 4. Epure, C.; Munteanu, C.; Istrate, B.; Harja, M.; Lupu, F.C.; Luca, D. Innovation in the Use of Recycled and Heat-Treated Glass in Various Applications: Mechanical and Chemical Properties Coatings 2025, 15,651. https://doi.org/10.3390/coatings15060651

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<p>Herghiligiu Cristina Maria Ș.L. dr. ing.</p> <p>201. Chimie Organică 1-aplicații</p> <p>205. Chimie Organică 2-aplicații</p>	<p>- Polimeri multifuncționali fotosensibili pentru aplicații biologice</p> <p>-Filme azo-polimerice nanostructurate utilizate drept suport în culturile celulare</p> <p>Realizări: Articole ISI/BDI: 4 Coordonare lucrări la cercuri științifice studențesti: 5</p>	<p>Articole publicate în reviste cotate ISI</p> <p>1. Herghiligiu, I-B. Robu, A. Vilcu, M. Pislaru, Ș.-C. Pohonțu-Dragomir, M. Cojocaru, C.M. Herghiligiu, Organizational sustainability score – probability approach using fuzzy logic Environmental Engineering and Management Journal, February 2024, Vol.23, No. 2, 233-470, DOI: 10.30638/eemj.2024.019</p> <p>Articole indexate în baze de date internaționale</p> <p>1. C.M. Herghiligiu, Photo-induced mass transport under continuous irradiation in nucleobase-modified azopolymers, Bulletin of the Polytechnic Institute of Iași, Materials Science and Engineering Section, Vol. 71(75), Nr. 4 (2025); https://sim.tuiasi.ro/bipi-2025-issue4/</p> <p>2. C.M. Herghiligiu, N. Hurduc, <i>Azo-polysiloxanes – surface properties studies</i>, Buletinul Institutului Politehnic Din Iași, Secția Chimie și Inginerie Chimică, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Volumul 68(72), Numărul 2, 2022, DOI: 10.5281/zenodo.7542923</p> <p>3. C.M. Herghiligiu, N. Hurduc, <i>Surface modification induced by aqueous environment of nucleobase-modified azo-polysiloxanic films</i>, Buletinul Institutului Politehnic Din Iași, Secția Chimie și Inginerie Chimică, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Volumul 68(72), Numărul 3, 2022; DOI: 10.5281/zenodo.7544308</p> <p>Coordonare lucrări la cercurile științifice studențesti: 5</p>
<p>Herghiligiu Ionut Viorel Prof. dr.</p>		<p>Lucrări științifice publicate în reviste cotate WoS (ISI) sau indexate în baze de date internaționale.</p> <p>1. Vilcu A., Palici A., Pislaru M., Herghiligiu I.V., Lăzărescu R., Leontică L. (Căs. Aioanei) Grămăticu V. (Căs.Damaschin), <i>Digital transformation of the supply chain in the raw materials area: a case</i></p>

<p>314.1.Management ul și ingineria sistemelor de producție</p> <p>314.2. Mangement și marketing</p>	<p>- Management si sisteme de productie</p> <p>-Evaluarea rolului digitalizării în contextul sustenabilității organizaționale</p> <p>-Cercetari privind sustenabilitatea organizationala</p> <p>Realizări: Articole ISI/BDI: 9 Conferințe: 32 Contracte/granturi: 4</p>	<p><i>study for FMS factory</i>, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 68(IV), 1035-1047, 2025. https://www.atna-mam.utcluj.ro/index.php/Acta/article/view/2981/2367</p> <p>2. Vilcu A., Palici A., Herghiligi I.V., Pislaru M., Ionesi S-D, Sustainable innovation management model based on Value Engineering Method,, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67, 1337-1346, 2024. WOS:001469721900047.https://www.webofscience.com/wos/woscc/full-record/WOS:001469721900047</p> <p>3. Pohontu-Dragomir S.C., Herghiligi I.V., Vilcu A., Cojocaru M.,Information System Evaluation from a Green Production Management Perspective in an Automotive Sector Company, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67(2), 841-848, 2024. WOS:001362561700042.https://www.webofscience.com/wos/woscc/full-record/WOS:001362561700042</p> <p>4. Herghiligi I.V., Dicu R.M., Aevoae G.M., Sahlian D.N., Popa A.F., Robu I.B Circular Causality Analysis of Corporate Performance and Accounting Quality in M&As,, PLOS ONE, 19(10), e0308608, 2024. https://doi.org/10.1371/journal.pone.0308608. Articol publicat în revistă din quartila: Q1. https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308608</p> <p>5. Vilcu A., Todiric D., Herghiligi I.V., Verzea I., Digital security system with artificial intelligence module for data communications into manufacturing company, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 66(4), 529-538, 2023. WOS:001236162800001.</p>
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		<p>proiect: 29869 lei (inclusiv TVA)/ 25100 lei (exclusiv TVA); Perioada/ anul: 2021; Director/ responsabil proiect: Conf.univ.dr.habil. Ionuț Viorel Herghiligiu.</p> <p>3. Titlul proiectului: Evaluarea rolului digitalizării în contextul sustenabilității organizaționale pe baza unui cadru inovativ de metode statistice și tehnici soft-computing – acronim: DIGIT-SUS-EV; Proiect de cercetare a Academiei Oamenilor de Știință Din România, AOSR-TEAMS II EDIȚIA 2023-2024, Transformarea Digitală în Științe; Numar contract/ tip: 11/ 11.04.2023; Valoare proiect: 45000 lei; Perioada/ anul: 2023-2024; Director/ responsabil proiect: Conf.univ.dr.habil. Ionuț Viorel Herghiligiu. https://www.aosr.ro/wp-content/uploads/2023/03/REZULTATE-FINALE-SITE-Comp-proiecte-2023-2024.pdf</p> <p>4. Titlul proiectului: Cercetări privind impactul indus mediului de activitățile desfășurate de SC KNUTH-ALLMETECH SRL în punctul de lucru din localitatea Tomești, jud. Iași, platforma industrială Comtom, Hala G4I; Numar contract/ tip: Agent economic nr. 7798/ 2021; Valoare proiect: 29869 lei (inclusiv TVA)/ 25100 lei (exclusiv TVA); Perioada/ anul: 2021; Director/ responsabil proiect: Conf.univ.dr.habil. Ionuț Viorel Herghiligiu.</p>
<p>Jitaru Oana Lector dr.</p> <p>119. Pedagogie I 321. Managementul clasei de elevi</p>	<p>- Competență civică și comportament prosocial în contextul crizei din România</p>	<p>Lucrări științifice publicate în reviste cotate WoS (ISI) sau indexate în baze de date internaționale.</p> <p>1. Jitaru, Oana, Bobu, Roxana și Bostan, Cristina Maria. (2023). Social and Emotional Skills in Adapting Students to the Academic Environment. Revista Românească pentru Educație Multidimensională, 15, 1, 590-605, https://doi.org/10.18662/rrem/15.1/713, ISSN: 2066- 7329 e-ISSN: 2067-9270. Covered in: Web of Science (WOS); EBSCO;</p>

	<p>-Managementul clasei de elevi</p> <p>Realizări: Articole ISI/BDI: 13 Articole in reviste CNCSIS: 1</p>	<p>ERIH+; Google Scholar; Index Copernicus; Ideas RePeC; Econpapers; Socionet; CEEOL; Ulrich ProQuest; Cabell, Journalseek; Scipio; Philpapers; SHERPA/RoMEO repositories; KVK; WorldCat; CrossRef; CrossCheck.</p> <p>2. Jitaru, Oana and Bobu, Roxana. (2023). Students' Resilience And Personal Development In Covid 19 Pandemic Pages: 441 - 450 Author(s), 9th International Conference Edu World 2022 "Education Facing Contemporary World Issues" (EDU WORLD 2022), 03-04 June, 2022, Pitești, Romania, Web of Science Conference Proceedings Citation Index - Social Sciences & Humanities (CPCI-SSH). https://www.europeanproceedings.com/book-series/EpES.</p> <p>Studii și articole publicate în reviste de specialitate, indexate în baze de date:</p> <p>1. Jitaru, Oana, Bobu, Roxana și Anghel, I.Ona, (2024). Enhancing a creative personal branding based on social competence, Proceeding of THE XXVIIIITH INTERNATIONAL CONFERENCE OF INVENTICS, Inventics 2024, Science of creativity, pp. 40-49, ISSN: 1844-7880. DOI: 10.2478/9788367405799-fm, DOI: 10.2478/9788367405799-toc. https://doi.org/10.2478/9788367405799-fm. Baze de date: SCIENDO</p> <p>2. Bobu, Roxana și Jitaru, Oana. (2024). Cognitive distortions and students' self-evaluation, in Values, education, responsibility. Pedagogical research. (pp. 201-207), International Conference "Education in the Perspective of Values", the XVIth edition, held at the "1 December 1918" University of Alba Iulia - Romania, on October 9 - 11, 2024. https://www.ceeol.com/search/book-detail?id=1285986. Baze de date: CEEOL</p> <p>3. Jitaru Oana, Bobu, Roxana și Anghel, Ionica Ona. (2023). Social competence and the profile of the student aspiring to the teaching career,</p>
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<p>Klotzer Lenuța Conf. dr. bioing.</p> <p>312.1. Biotehnologie Generală</p>	<p>- Studiul proceselor de separare a acizilor carboxilici</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. A.C. Blaga, E.N. Dragoi, D.G. Gal, A.C. Puitel, A. Tucaliuc, L. Kloetzer, D. Cașcaval, A.I. Galaction <i>Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling</i>, Journal of Industrial and engineering Chemistry, 133, 183-194, 2024.</p>

<p>113.2. Comunicare</p>	<p>- Importanța comunicării profesor-student, în cercetarea științifică</p> <p>Realizări: Articole ISI/BDI: 11 Articole în reviste CNCSIS: 3 Contracte/granturi: 3</p>	<ol style="list-style-type: none"> 2. A.C. Blaga, L. Kloetzer, D. Cașcaval, A.I. Galaction, A. Tucaliuc, <i>Studies on reactive extraction of itaconic acid from fermentation broths</i>, Processes, 12 (4),725, 2024. 3. A.C. Blaga, E.N. Dragoi, A. Tucaliuc, L. Kloetzer, A..C. Puitel, D. Cașcaval, A.I. Galaction, <i>Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids- Experimental, modelling and optimisation with Artificial Neural Networks</i>, Heliyon, 10 (16), e36113, 2024. 4. L. Kloetzer, A.C. Blaga, D. Cașcaval, A.I. Galaction - <i>Selective pertraction of dicarboxylic acids from simulated Rhizopus oryzae fermentation broths</i>, Scientific Reports, 13 (1), 1-10, 2023. 5. A.C. Blaga, E.N. Dragoi, A. Tucaliuc, L. Kloetzer, D. Cascaval, <i>Folic acid ionic-liquids-based separation: Extraction and modelling</i>, Molecules, 28 (8) 2023. 6. L. Kloetzer, A. Tucaliuc, A.-I. Galaction, D. Cașcaval - <i>Fractionation of dicarboxylic acids produced by Rhizopus oryzae using reactive extraction</i>, Scientific Reports 12, 2022. 7. A.C. Blaga, A. Tucaliuc, L. Kloetzer, <i>Applications of ionic liquids in carboxylic acids separation</i>, Membranes, 8 (12), 19, 2022. 8. A. Tucaliuc, L. Kloetzer, A. Cislaru, A.C. Blaga, <i>Strain development, substrate utilization, and downstream purification of vitamin C</i>, Processes, 10 (8), 13, 2022. 9. L. Kloetzer, A: Tucaliuc, D. Cascaval, A.I. Galaction, - <i>Influence of solvent polarity on reactive extraction of fumaric acid with Amberlite LA-2 from viscous solutions</i>, Separation Science And Technology, 57 (5), 698-706, 2022. 10. D. Cascaval, A.I. Galaction, A. Tucaliuc, L. Kloetzer - <i>Direct extraction of fumaric acid from rhizopus oryzae suspensions-interfacial mass transfer</i>, Biomolecules 2021, 11 (11), 2021.
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<p>Lisa Gabriela Prof. dr. ing.</p>	<p>- Studiul proprietăților fizico-chimice a unor sisteme binare și ternare</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>Articole publicate în reviste cotate ISI</p>

<p>301. Chimie fizică 3: sisteme polidisperse</p>	<p>- Caracterizarea fizico-chimica a unor noi materiale de natura organica si anorganica</p> <p>Realizări: Articole ISI/BDI: 61+8 Aricole în reviste CNCSIS: 2 Conferințe: 2 Contracte: 7</p>	<ol style="list-style-type: none"> 1. Serbezeanu, D; Vlad-Bubulac, T; Rusu, D; Lisa, G; Lupa, L; Coheci, L, Tailoring thermal, structural, and photocatalytic properties of electrospun poly(ether ether ketone) nanocomposite membranes through TiO₂ integration, Journal of Environmental Chemical Engineering, 2026, 14(1), 121000, http://doi.org/10.1016/j.jece.2025.121000, Q1. 2. Rusu, P; Creteanu, A; Ipate, AM; Danu, M; Zaltariov, MF; Rusu, D; Tuchilus, CG; Tantar, G; Lisa, G, Experimental Valorization of Recycled Palm Oil in Topical Formulations: Preparation, Characterization, and Antimicrobial Assessment, Molecules, 2026, 31(2), 335, http://doi.org/10.3390/molecules31020335, Q2 3. Postolache, LV (; Soreanu, G; Cretescu, I; Tudorachi, N; Rusu, D; Zaltariov, MF; Anghel, I; Preda, DM; Lisa, G, Studies on energy recovery from microalgae and plants wastes, Biomass & Bioenergy, 2026, 206, 108586, http://doi.org/10.1016/10.1016/j.biombioe.2025.108586, Q1 4. Nistor, L; Lisa, C; Michinobu, T; Lisa, G, Thermal degradation mechanism and isothermal sublimation kinetics of DDMEBT: Structure-property correlations for process optimization, Journal of Materials Research And Technology-JMR&T, 2025, 39, 7261-7276, http://doi.org/10.1016/j.jmrt.2025.11.046, Q1 5. Gutsanu V, Ipate A.-M., Lisa G. Botnaru M., Chrome-Polymer Composite as a Precursor for Obtaining a Sorbent with Selective Properties, Colloid Journal, 2025, 3, 87, 408-422, http://doi.org/10.1134/S1061933X25600447, Q4 6. Ipate, AM; Serbezeanu, D ; Iftimie, IA; Lisa, G; Rîmbu, CM; Vlad-Bubulac, T, Study on the Structure, Thermal Properties and Antibacterial Properties of Phosphorus-Modified PVA/TiO₂ Composite Films, Gels, 2025, 11, 12, 1020, http://doi.org/10.3390/gels11121020, Q1
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<p>Luca Florin Alexandru Prof. dr. 315.1. Marketing</p>	<p>- Adaptarea ofertei de produse și servicii ale întreprinderii industriale la cerințele pieței</p> <p>-Teorii și politici economice pentru România și Uniunea Europeană</p>	<p>Articole publicate cotate ISI</p> <ol style="list-style-type: none"> 1. Ciuculescu, L; Luca, FA (2025). Developing a Sustainable Cultural Brand for Tourist Cities: Insights from Cultural Managers and the Gen Z Community in Brasov, Romania, <i>Sustainability</i>, WOS:001475590400001 2. Țarcă V.; Luca FA; Țarcă E. (2024). The Digital Edge: Skills That Matter in the European Labour Market after COVID-19. <i>Economies</i>, 12(10), 273; DOI: 10.3390/economies12100273

<p>315.3. Politici economice ale Uniunii Europene</p>	<p>Realizări: Articole ISI/BDI: 9+6 Conferințe: 1 Contracte: 1</p>	<ol style="list-style-type: none"> 3. Luca, FA; Tiganas, CG; Grigoras-Ichim, CE; Filipeanu, D; Morosan-Danila, L. (2024). Critical Perspectives of Organisational Behaviour towards Stakeholders through the Application of Corporate Governance Principles. <i>Administrative Sciences</i>, 14(5), WOS: 001232283200001. 4. Ciuculescu, EL; Luca, FA. (2024). How Can Cities Build Their Brand through Arts and Culture? An Analysis of ECoC Bidbooks from 2020 to 2026. <i>Sustainability</i>, 16(8). WOS:001210863700001 5. Filipeanu, D; Luca, FA; Maha, LG; Tarca, V ; Tiganas, CG. (2023). The nexus between digital skills' dynamics and employment in the pandemic context. <i>Eastern Journal of European Studies</i>, 14 (2), pp. 245-264, WOS:001137028500002 6. Luca, AC; Curpan, AS; Iordache, AC; Mîndru, DE; Tarca, E; Luca, FA; Paduret, IA. (2023) Cardiotoxicity of Electronic Cigarettes and Heat-Not-Burn Tobacco Products-A Problem for the Modern Pediatric Cardiologist. <i>Healthcare</i>, 11(4). WOS:000938663800001 7. Luca, AC; Curpan, AS; Braha, EE; Tarca, E; Iordache, AC; Luca, FA; Adumitrachioaiei, (2022).Increasing Trends in Obesity-Related Cardiovascular Risk Factors in Romanian Children and Adolescents-Retrospective Study. <i>Healthcare</i> 10(12). WOS:000900913900001 8. Luca, AC; Miron, IC; Mîndru, DE; Curpan, AS; Stan, RC; Tarca, E; Luca, FA; Paduret, AI (2022). Optimal Nutrition Parameters for Neonates and Infants with Congenital Heart Disease. <i>Nutrients</i> 14 (8) WOS:000786146800001 9. Tarca, V; Tarca, E; Luca, FA (2022). The Impact of the Main Negative Socio-Economic Factors on Female Fertility. <i>Healthcare</i>, 10(4), WOS:000787506700001 <p>Articole publicate în reviste indexate în baze de date internaționale BDI</p>
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		<p>1. Proiect AUF ECO 2024 DRECO 8602- ECONANODERE, Membru proiect 2024-2025. Director proiect: Ș.l.dr.ing. Daniel Lepadatu</p>
<p>Maier Stelian Sergiu Conf. dr. ing.</p> <p>103. Informatică Aplicată 1 109. Informatică Aplicată 2</p>	<p>- Studiul și proiectarea de biotehnologii cu aplicabilitate în sfera textilelor și pielăriei</p> <p>- Cercetari în domeniul textilelor inteligente.</p> <p>- Realizarea de structuri destinate ingineriei tisulare</p> <p>Realizări: Articole ISI/BDI: 10 Invenții: 3 Contracte: 1 Coordonare disertatii: 12 Coordonare lucrări de cercetare prezentate la cercuri științifice studențești: 2</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Denisse I. Bostiog, Valentin Nastasa, Cristina M. Al-Matarneh*, Dragos Peptanariu, Mihai Mares, Sorin A. Pasca, Andra C. Bostanaru-Iliescu, Bogdan F. Craciun, Tudor Vasiliu, Razvan Puf, <u>Stelian S. Maier</u>, Mariana Pinteala, The Role of Spacer Segments in Increasing the Transfection Efficacy of Au-Core Polymeric-Shell Nanoparticulate Gene Vectors, <u>ACS Omega</u>, 11, 4430-4439, 2026, Access2026. DOI: 10.1021/acsomega.5c10142 2. Tudor Pinteala, <u>Stelian Sergiu Maier</u>, Norin Forna, Liliana Savin, Mihnea Theodor Sirbu, Dragos Cristian Popescu, Viorel Dan Cionca, Dan Constantin Putineanu, Paul Dan Sirbu, <i>A Meta-Analytical Way of Systematizing the Use of Hyaluronan Gels for the Relief of Osteoarthritis, Compared with New Treatment Alternatives</i>, Gels, 2024, 10 (7), 481. (ISI: 5) DOI: 10.3390/gels10070481. 3. Uritu C.M., Al-Matarneh C.M., Bostiog D.I., Coroaba A., Ghizdovat V., Filipiuc S.I., Simionescu N., Stefanescu C., Jalloul W., Nastasa V., Tamba B.I., <u>Maier, S.S.</u>, Pinteala M., <i>Radiolabeled multi-layered coated gold nanoparticles as potential biocompatible PET/SPECT tracers</i>, Journal of Materials Chemistry B, 2024, 12 (15), 3659–3675. (ISI: 6,1) DOI: 10.1039/d3tb02654j. 4. Bostiog D.I., Simionescu N., Coroaba A., Marinas I.C., Chifiriuc M.C., Gradisteanu Pircalabioru G., <u>Maier S.S.</u>, Pinteala M., <i>Multi-shell gold nanoparticles functionalized with methotrexate: a novel nanotherapeutic approach for improved antitumoral and antioxidant activity and enhanced biocompatibility</i>, Drug Delivery, 2024, 31(1). (ISI: 6,5) DOI: 10.1080/10717544.2024.2388624.

		<ol style="list-style-type: none"> 5. Niculescu A.-G., Georgescu M., Masinas I.-C., Ustundag C.B., Bertesteanu G., Pinteala M., <u>Maier S.S.</u>, Al-Matarneh C.M., Angheloiu M., Chifiriuc M.C., <i>Therapeutic Management of Malignant Wounds. An Update</i>, Current Treatment Options in Oncology, 2024, 25(1), 97-126. (ISI: 3,8) DOI: 10.1007/s11864-023-01172-2. 6. Zorila F.-L., Alexandru M., Marinas I.-C., Dumbrava A.S., Baltac A.-S., Cuturbinis M., Angheloiu M., <u>Maier S.-S.</u>, <i>Optimizing the staining of SDS-PAGE gels and highlighting the main protein chains of collagen after gamma irradiation in different dose and temperature conditions</i>, University Politehnica of Bucharest Scientific Bulletin, Series B Chemistry and Materials Science, 2024, 86(2), 121-138. (ISI:0,06) 7. Bianca-Maria Tihăuan, Grațiela Gradisteanu Pircalabioru , Mădălina Axinie (Bucos), Ioana Cristina Marinas, Anca-Cecilia Nicoară, Luminița Mărutescu, Ovidiu Oprea, Elena Matei, <u>Stelian Sergiu Maier</u>, <i>Crosslinked Collagenic Scaffold Behavior Evaluation by Physico-Chemical, Mechanical and Biological Assessments in an In Vitro Microenvironment</i>, Polymers, 2022, 14(12), 2430. (ISI: 4.967) 8. Anca-Roxana Petrovici, Mihaela Sillion, Natalia Simionescu, Rami Kallala, Mariana Pinteala, <u>Stelian S. Maier</u>, <i>Quantification of Low Amounts of Zoledronic Acid by HPLC-ESI-MS Analysis: Method Development and Validation</i>, International Journal of Molecular Sciences, 2022, 23(11), 5944. (ISI: 5.542) 9. Nisrine Nouj, Naima Hafid , Nouredine El Alem , Ingrid Ioana Bucîșcanu, <u>Stelian Sergiu Maier</u>, Petrișor Samoila, Gabriela Șoreanu, Igor Crețescu, and Cătălina Daniela Stan, <i>Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment</i>, Materials, 2022, 15(8), 2803. (ISI: 3.748) 10. Ajinkya Powar, Anne Perwuelz, Nemeshwaree Behary, Le Vinh Hoang, Thierry Aussenac, Carmen Loghin, <u>Stelian Sergiu Maier</u>, Jinping Guan,
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		<p>Guoqiang Chen, Decolorization of the Reactive Dyed Cotton Fabrics with the Use of Ozone Assisted Eco-technology?, Journal of Fiber Bioengineering and Informatics, 2022, 15(1), 27-33. (ISI: 0.33)</p> <p>Invenții.</p> <ol style="list-style-type: none"> 1. RO132589 B1-2022 - Compoziție și procedeu pentru retanarea pieilor cu derivați proteici și oxizi metalici, obținuți din deșeuri. 2. RO 133945 B1 – 2025 - Procedeu pentru izolarea și purificarea violaceinei destinate aplicațiilor biomedicale din culturi de <i>Janthinobacterium lividum</i>. 3. RO 133952 B1 -2025 - Procedeu pentru obținerea matricelor colagen-polizaharidice microporoase, cu conținut de violaceină, destinate aplicațiilor biomedicale și dermato-cosmetice. <p>Contracte de cercetare.</p> <ol style="list-style-type: none"> 1. PRNE/415/PRNE_P1/OP1/RSO1.1/PRNE_A1 - PR/NE/2024/P1/RSO1.1/1/2 - INFRASTRUCTURI CDI - Centrul pentru cercetare – inovare în domeniul textilelor și al industriei modei - SMART-Text-IS, Cod SMIS 334492, Contract 662 / 08.04.2025, <u>Director proiect</u> <p>Coordonare lucrări de cercetare/ disertatii, în perioada 2021-2025: 12</p> <ol style="list-style-type: none"> 1. Obținerea și caracterizarea hidroxiapatitei (HAP) in refacerea osoasă (Albu Octavian Ionuț, 2022). 2. Pretătirea culturilor de alge pentru utilizarea lor biotehnologii alternative privind epiurarea apelor (Braharu(Fotea) Andreea, 2022). 3. Formularea compozițiilor cu conținut de hidrolizat de cheratină pentru utilizarea lor în operația de vopsire a materialelor textile prin intermediul spumelor de coloranți (Hofnăr (Raita) Mirela- Alina, 2022).
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		<ol style="list-style-type: none"> 4. Obținerea și caracterizarea compozitelor atelocolagen –hidroxiapatită (AC-HAP) destinate dispozitivelor medicale cu aplicații în refacerea osoasă (Ilieș (Cojocaru) Gabriela-Elena, 2023) 5. Amorsarea culturilor de spirulina (<i>Arthrospira platensis</i>) destinate aplicațiilor biotehnologice în sfera textilelor și în domenii conexe acesteia Studiu documentar (Ifrim (Moldovan) Mihaela – Sonia, 2023). 6. Obținerea nanoparticulelor metalice din argint și utilizarea acestora în sfera textilelor medicale Studiu documentar (Florea (Moldovan) Maria Simona,2023). 7. Textile medicale - Structuri multistratificate cu potențial terapeutic (Sabadîș Ștefan, 2024). 8. Compozite bioactive din membrane colagenice cu inserție textilă, destinate chirurgiei abdominale (Mațoschi Mihai-Andrei. 2024). 9. Înglobarea culturilor de spirulina (<i>Arthrospira platensis</i>) în medii solide destinate aplicațiilor în sfera textilelor medicale și cosmetice (Vlad Bâzdăgă, 2024). 10. Nanoparticule metalice din argint utilizate în sfera textilelor medicale (Iancu (Postolache) Cătălina Iuliana, 2025). 11. Textile medicale compresive cu aplicații în ameliorarea insuficienței venoase cronice (Burlacu Ionuț,2025). 12. Vehiculanți proteici pentru pigmenți organici destinați finisării pieilor cu pelicule de acoperire (Mihăilă Ștefan, 2025). <p>Coordonare lucrări de cercetare prezentate în cadrul cercurilor științifice studentești, în perioada 2021-2025: 2</p>
<p>Maier Vasilica Ș.L. dr. ing.</p> <p>309. Chimia si structura fibrelor textile I</p>	<p>- Materiale și structuri avansate ca suporturi ale</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Nisrine Nouj, Zineb Majbarc, Bucîșcanu Ingrid, Maier Vasilica, Șoreanu Gabriela, Crețescu Igor, Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation, Journal of Environmental Chemical

<p>212. Practica de domeniu</p>	<p>tratamentelor chimice/finisare.</p> <p>-Analize fizico- chimice de laborator cu aplicații pe textile</p> <p>Realizări: Articole ISI/BDI: 3 Conferințe: 2 Invenții: 2 Contracte: 1 Coordonare disertatii: 13 Coordonare lucrări de cercetare prezentate la cercuri științifice studențești: 3</p>	<p>Engineering, 12 (2), 112318, 2024, 10.1016/j.jece.2024.112318. (ISI: 7,4)</p> <ol style="list-style-type: none"> 2. Diaconu, M., Soreanu, G., Balan, C.D., Maier, V., Cretescu, I., Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation, Water Switzerland, Open source preview, 2023, 15(22), 3962. (ISI: 3). 3. Vasilica Popescu, Ingrid Ioana Buciscanu, Melinda Pruneanu, Stelian Sergiu Maier, Angela Danila, Vasilica Maier, Marius Pîslaru, Vlad Rotaru, Irina Niculina Cristian, Andrei Popescu, Bogdan Istrate, Alexandra Cristina Blaga, Florin Ciolacu, Igor Cretescu, Petronela Chelariu, Marina Marin, Sustainable functionalization of PAN to improve tinctorial capacity, Polymers 2021, 13(21), 3665. (ISI: 4.329) <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Gabriela Soreanu, Constantin Mardari, Catalin Tanase, Irina Volf, Vasilica Maier, Igor Cretescu, <i>Preliminary assessment of air purification by aerial plant based biofilter</i>, Ecology & Safety, Volume 16, 2022, ISSN 1314-7234. 2. Maier Vasilica, Maier Stelian, <i>Formulation Study on the Preparation of Foams for Foam Dyeing of Denim Fabrics by Using Reactive Dyes</i>, CORTEP 2022, The 18th Romanian Textiles and Leather Conference (pp.237-242), 17-19 november 2022, Iasi, Romania. <p>Invenții.</p> <ol style="list-style-type: none"> 1. RO 133945 B1 – 2025 - Procedeu pentru izolarea și purificarea violaceinei destinate aplicațiilor biomedicale din culturi de <i>Janthinobacterium lividum</i>. 2. RO 133952 B1 -2025 - Procedeu pentru obținerea matricelor colagen-polizaharidice microporoase, cu conținut de violaceină, destinate
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		<p>aplicațiilor biomedicale și dermato-cosmetice.</p> <p>Contracte de cercetare.</p> <ol style="list-style-type: none"> 1. PRNE/415/PRNE_P1/OP1/RSO1.1/PRNE_A1 - PR/NE/2024/P1/RSO1.1/1/2 - INFRASTRUCTURI CDI - Centrul pentru cercetare – inovare în domeniul textilelor și al industriei modei - SMART-Text-IS, Cod SMIS 334492, Contract 662 / 08.04.2025 <p>Coordonare lucrări de cercetare/disertații: 13</p> <ol style="list-style-type: none"> 1. Cânepa ca resursă pentru obținerea fibrelor cu aplicații textile (Năstase Costică, 2022). 2. Studiul capacității tinctoriale a coloranților direcți și reactivi utilizați pentru vopsirea materialelor textile din fibre celulozice (Năstase Cosmin, 2022). 3. Metode de decolorare a apelor uzate de la vopsire prin procedee chimice (Mândru Liliana, 2022). 4. Metode fizico - chimice pentru îndepărtarea coloranților din apele uzate din industria textilă (Vârlan Costel, 2023). 5. Hidrolizate de colagen dopate cu oligoelemente destinate aplicațiilor biomedicale (Varga Patricia, 2023). 6. Izolarea și purificarea preliminară a acemannanului din parenchimul frunzelor de <i>Aloe barbadensis</i> Miller, supuse stresului foto-oxidativ (Pescari Andrada- Daniela, 2023). 7. Hidrofobizarea materialelor textile utilizând esteri glicidilici (Mihaela Pavel (Andreiana, 2024). 8. Materiale compozite cu fibre textile tratate chimic (Nechita Sebastian, 2024). 9. Materiale compozite ranforsate cu structuri textile (Toma Paul Nicu, 2025).
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		<p>10. Obținerea și caracterizarea pansamentelor colagenice (Prisăcaru Monica, 2025).</p> <p>11. Extragerea polizaharidelor din gelul frunzelor de Aloe Vera (Janosi (Moldovan) Erzsebet, 2025).</p> <p>12. Metode fizico - chimice pentru îndepărtarea coloranților din apele uzate din industria textilă (Foca (Ciudin) Andreea – Elena, 2025).</p> <p>13. Considerații privind îmbrăcămintea de protecție (Lungu (Jișa) Cosmina -Corina, 2024).</p> <p>Coordonare lucrări de cercetare prezentate în cadrul cercurilor științifice studentești, în perioada 2021-2025: 3</p>
<p>Măluțan Corina Ș.I. dr. ing.</p> <p>201. Chimie Organică 1</p>	<p>-Caracterizarea hartiilor si cartoanelor destinate ambalajelor alimentare</p> <p>-Sisteme nanostructurate utilizate pentru eliberarea controlata a agentilor farmacologici</p> <p>Realizări:</p> <p>Articole ISI/BDI: 2</p> <p>Cercuri stiintifice: 2</p> <p>Coordonare disertații: 5</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. Doina Humelnicu, A Pui, Corina Malutan, Th Malutan, I Humelnicu, Synthesis, characterization and theoretical investigations of new uranium (VI) and thorium (IV) complexes with 1-furfurylaldehyde-derived Schiff bases as ligands, Journal of Saudi Chemical Society, 24 (6), 451-460, 2020.</p> <p>2. Valentina Iordan (Constantin), Theodor Malutan, Corina Malutan, Control of Lignin Epoxydation by Reaction Calorimetry, Cellulose Chemistry and Technology, 52 (9-10), 789-793</p>
<p>Nacu Gabriela Ș.L. dr. ing.</p> <p>107. Chimie 2 (Chimie Analitică 1)-aplicații</p> <p>202. Chimie Analitică și analiză</p>	<p>- Metode instrumentale de analiza</p> <p>- Proprietatile adsorbitive ale unor noi materiale</p> <p>- Sinteza și analiza unor compuși organici cu aplicații în chimia analitică</p> <p>Realizări:</p>	<p>1. Laura Bulgariu, Gabriela Nacu, <i>Metode instrumentale de analiză, lucrări practice (Ediția a III-a)</i>, Ed. Performantica, Iași, 2022, ISBN 978-606-685-940-0</p> <p>Lucrări ISI</p> <p>1. Daniela-Ionela Ferțu, Alina-Alexandra Ciobanu, Irina Gabriela Cara, Iuliana Motrescu, Iftikhar Ahmad, Gabriela Nacu and Laura Bulgariu, <i>Circular Approach of Using Soybean Biomass for the Removal of Toxic Metal Ions from Wastewater</i>, Water 2024, 16(24), 3663</p>

instrumentală (Chimie analitică 2)-aplicații	Cărți: 1 Articole ISI/BDI: 1 Cercuri științifice: 5	
Nica Petru Edward Prof. dr. 102. Fizică 1 106. Fizică 2	-Depunerea straturilor subțiri prin metoda ablației laser secvențiale -Modelarea proceselor fizico-chimice în elaborarea unei metode noi, ecologice, de obținere a titanului Realizări: Articole ISI/BDI: 3 Conferințe: 5	Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale. 1. C. Ursu, P. Nica, GB. Rusu, C. Vitelaru, G. Popa, C. Focsa Laser absorption spectroscopy on a transient aluminum plasma generated by excimer laser ablation SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, 2022. 196, 106510 2. P. Nica, C. Ursu, C. Focsa, Electrical Characterization of Carbon Plasma Generated by Excimer Laser Ablation of Graphite, Appl. Surf. Sci. 2021, 540, 148412 3. P. Nica, C. Ursu, C. Focsa, Long-range oscillations of a laser-produced carbon plasma recorded by an electrostatic energy analyzer, JOURNAL OF APPLIED PHYSICS, 2021, 129(5), 53305 Lucrări științifice publicate în volumele conferințelor. 1. C. Ursu, A. Bele, G. Rusu, M. Dascalu, B. Ciubotaru, P. Nica , G. Stiubianu, Hybrid thermoregulatory nanocomposites developed for personal thermal comfort and camouflage, oral, "21st International Conference on Plasma Physics and Applications (Bucuresti, 1-5 Septembrie 2025), Internationala "National Institute for Laser, Plasma and Radiation Physics, Magurele, Ilfov, Romania, https://cespc.inflpr.ro/ pg. 161 ISSN 2344-0481 2. Bogdan-George Rusu, Cristian Ursu, Daniela Ionita, Victor Oancea, Mihaela Olaru, Gabriel Ababei, Petru Nica , FLUORESCENT CARBON NANOPARTICLES SUSPENSION GENERATED BY PULSED LASER ABLATION IN ETHANOL, International Conference Progress in Organic and Macromolecular Compounds 29th

		<p>Edition, Iasi, Romania, 4-6 October 2023, https://icmpp.ro/macroiiasi2023/index.php, Proceedings, pg. 50-52, ISSN 2810 – 2126 ISSN – L 2810 – 2126</p> <p>3. Cristian Ursu, Bogdan-George Rusu, Andrei Dascalu, Mihaela Olaru, Victor Oancea, Petru Nica, A COMBINED APPROACH FOR THE DEPOSITION HIGH QUALITY AND POROUS ZnO FILMS WITH APPLICATION IN PHOTOCATALYSIS, International Conference Progress in Organic and Macromolecular Compounds 29th Edition, Iasi, Romania, 4-6 October 2023, https://icmpp.ro/macroiiasi2023/index.php Proceedings, pg. 83-85 ISSN 2810 – 2126 ISSN – L 2810 – 2126</p> <p>4. P. Nica, C. Ursu, G. Rusu, C. Focsa, Characterization of carbon ions in excimer laser-generated plasma using the electrostatic energy analyzer, "19th INTERNATIONAL CONFERENCE ON PLASMA PHYSICS AND APPLICATIONS, CPPA 2021, August 31-September 3, 2021, Magurele-Bucharest, Romania", https://cppa2021.inflpr.ro/</p> <p>5. P. Nica, C. Ursu, G. Rusu, C. Focsa, Current oscillations recorded by an electrostatic energy analyzer from a Carbon laser-produced plasma, "19th INTERNATIONAL CONFERENCE ON PLASMA PHYSICS AND APPLICATIONS, CPPA 2021, August 31-September 3, 2021 Magurele-Bucharest, Romania", https://cppa2021.inflpr.ro/</p>
<p>Piroi Cristina Ș.L. dr. ing.</p> <p>412.1. Tehnologia filarii și țeserii</p> <p>412.2. Tehnologia tricotării și</p>	<p>-Aspecte privind influența tehnologiei de țesere asupra caracteristicilor definatorii ale țesăturii crude</p> <p>-Textile netesute consolidate prin procedee mecanice.</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. Harpa R., Piroi C., Cristian, I., Blaga M. <i>Sensory analysis and Principal Component Analysis: a sustainable approach for quality control of stretch denim fabrics</i>, Industria textila, Vol. 73(5), p. 519-529, 2022, (ISI /WOS)</p> <p>Lucrări științifice publicate în volumele conferințelor.</p>

<p>confeționării</p>	<p>-Textile netesute consolidate prin procedee fizico-chimice</p> <p>Realizări: Articole ISI/BDI: 1 Conferințe: 7 Contracte: 3</p>	<p>- Conferințe indexate ISI și BDI</p> <ol style="list-style-type: none"> 1. Harpa R, Piroi C, Oprea M, Cristian I., <i>A sustainable diversification strategy for stretch denim production: "in-house" washing of finished fabrics</i>, Proceedings of the 19th Romanian Textiles and Leather Conference-CORTEP 2024, p.211-220, Sciendo, 2025 (EBSCO); 2. Piroi C., Harpa R., Cristian I., <i>One-piece weaving of a double-walled tubular 3D-fabric with two connecting elements</i>, Proceedings of the 8th International Symposium „Technical Textiles – Present and Future” TTPF2023, p.33-40, Sciendo, 2024 (EBSCO).; 3. Harpa R., Piroi C., Cristian I., Asăvoaei C., <i>Sustainable consumer behaviour and the fashion footprint of children's clothing: a role for mothers.</i>, Proceedings of the 8th International Symposium „Technical Textiles – Present and Future” TTPF2023, p.86-93, Sciendo, 2024 (EBSCO).; 4. Harpa R., Piroi C., Cristian I., <i>Ripped jeans: the discrepancy between quality assurance strategies in the sustainable production of denim and the market strategies of fashion manufacturers</i>, Proceedings of the 18th Romanian Textiles and Leather Conference-CORTEP 2022, p.142-151, Sciendo, 2023 (EBSCO).; 5. Harpa R., Piroi C, <i>Regarding the Quality Profile of an Assortment of Sewing Threads</i>, Proceedings of the 7-th International Symposium "Technical Textiles - Present and Future-TTPF2021, p.89-94, Sciendo, 2022 (EBSCO).; 6. Blaga M., Harpa R., Piroi, C., <i>Design-Based Learning in Knitting through the Educational Modules of Erasmus+ Projects</i>, Proceedings of the 7-th International Symposium "Technical Textiles - Present and Future-TTPF2021, p.212-218, Sciendo, 2022 (EBSCO).; <p>Conferințe internaționale neindexate:</p>
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		<p>1. Blaga, M., Harpa, R., Piroi, C., Jonesi S.D., <i>Software Tools for Textile Creatives: Design and Modelling of Knitted Structures</i>, The XXV International Scientific Conference "INVENTICA 2021", July 23-25, Iasi, 2021</p> <p>Contracte de cercetare (membru)</p> <p>1. METASKILLS - Alliance for Cooperation on Digital and Circular Economy Skills for the TCLF sector across Europe, Proiect ERASMUS-EDU-2022-PI-ALL-INNO-BLUEPRINT, Contract nr. 101111842.</p> <p>2. Textile Manufacturing for the Future in Uzbekistan and Kazakhstan - Tex4FUTURE, Proiect ERASMUS-101128738-EDU-2023-CBHE</p> <p>3. Direct access to students - DAS, Proiect nr.2SOFT/1.1/112</p>
<p>Popa Doina Mihaela Conf. dr. 111.2. Limba franceză 1 213.2. Limba franceză 2</p>	<p>- Studii si cercetări lingvistice, pedagogice si de metodologie a predării limbii franceze pentru nevoi specifice.</p>	<p>Cărți:</p> <p>1. Doina Mihaela POPA, <i>Communiquer en français II</i>, manual, Iași, Ed. Performantica, 2018, 300 pag. ISBN: 978-606-685-046-9</p> <p>2. Doina Mihaela POPA, <i>Communiquer en français, I</i> manual, Iași, Ed. Stef, 2017, 225 pag., ISBN: 978-606-575-786-8.</p>
<p>Popescu Vasilica Prof. dr. ing. 215. Descoperiri si concepte in chimie si inginerie chimica</p>	<p>- Proiectarea tehnologiilor și produselor cu grad scăzut de agresivitate asupra mediului și calității vieții -Tehnologii ecologice de finisare textilă</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>1. Romeo Pruneanu, Melinda Pruneanu, Stelian-Sergiu Maier, Vasilica Popescu, Vasilica Maier, Viorica Vasilache, Daniel Timpu, Diana-Elena Ciolacu, Structure-Property Relationships in Periodate Oxidized Cotton fabrics: Role of Textile Pretreatments, <i>Textiles</i>, 6 (2), 45, 2026, https://doi.org/10.3390/textiles6020045</p> <p>2. Vasilica Popescu, Ana-Diana Alexandrescu, Gabriel Popescu, Viorica Vasilache, <i>Eco-Friendly Extraction of Curcumin from Turmeric and</i></p>

<p>404. Tehnologia vopsirii si imprimarii materialelor textile</p> <p>405. Tehnologia pregătirii și finisării textilelor</p>	<p>- Procese și produse eco-prietenoase</p> <p>-Proiectarea și adaptarea tehnologiilor chimice în spiritul devizei „chimie curată”</p> <p>Realizări: Articole ISI/BDI: 12 Aricole în străinătate: 6 Conferințe: 5 Contracte: 3 Recenzii: 71 Coordonare doctorate: 6 Coordonare disertații: 10 Cercuri știintifice: 6</p>	<p><i>Dyeability of Textile Fibers</i>, <i>Fibers</i>, 13, 73, (2025), FI₂₀₂₅ =3,9.</p> <ol style="list-style-type: none"> 3. Valentina-Gabi Stănescu, Vasilica Popescu*, Viorica Vasilache, Gabriel Popescu*, Cristina Mihaela Rimbu and Andrei Popescu, <i>Cleaner Processes for Making Laundry Soap from Vegetable Oils and an Essential Oil</i>, <i>Applied Sciences (Appl. Sci.)</i>, 15, 3821, (2025) p. 1-30, FI₂₀₂₅ =2,5. 4. Vasilica Popescu*, Alexandra Cristina Blaga, Dan Cașcaval, Andrei Popescu, <i>Beta vulgaris L. - A source with a great potential in the extraction of natural dyes intended for the sustainable dyeing of wool</i>, <i>Plants</i> 12(10), article no.1933, (2023), FI₂₀₂₂=4,5, FI₂₀₂₅=4.1. 5. Diana Serbezeanu, Tachita Vlad-Bubulac, Mihaela Dorina Onofrei, Florica Dorofti, Corneliu Hamciuc, Alina-Mirela Ipate, Alexandru Anisie, Gabriela Lisa, Ion Anghel, Ioana-Emilia Sofran, Vasilica Popescu, <i>Phosphorylated poly(vinyl alcohol) electrospun mats for protective equipment applications</i>, <i>Nanomaterials</i>, 12, no. 15, (2022), article no. 2685, FI₂₀₂₂ =5.3, FI₂₀₂₅=4.3 6. Vasilica Popescu*, Marioara Petrea, Andrei Popescu, <i>Multifunctional Finishing of Cotton with Compounds Derived from MCT-₂-CD and Quantification of Effects Using MLR Statistical Analysis</i>, <i>Polymers</i> MDPI 13, 410, (2021) p.1-23, FI₂₀₂₁=3.426, FI₂₀₂₅=4.9. 7. Alexandru Cocean, Iuliana Cocean, Nicanor Cimpoesu*, Georgiana Cocean, Ramona Cimpoesu, Cristina Postolachi, Vasilica Popescu, Silviu Gurlui*, <i>Laser Induced Method to Produce Curcuminoid-Silanol Thin Films for Transdermal Patches Using Irradiation of Turmeric Target</i>, <i>Appl. Sci.</i>, 11, 4030, (2021) p.1-12, FI₂₀₂₁= 2.474, FI₂₀₂₅=2.5 8. Popescu, V; Buciscanu, II; Pruneanu M., (...); Cretescu Igor; Chelariu P; Marin, M., <i>Sustainable functionalization of PAN to improve tinctorial capacity</i>, <i>Polymers</i> 13, 21 (2021), FI₂₀₂₁= 4,967, FI₂₀₂₅=4.9 9. Popescu, V; Blaga, AC; Pruneanu M., (...); Cretescu Igor; Cascaval, D,
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Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials, Polymers 13, no. 22, (2021), FI₂₀₂₁= 4,967, FI₂₀₂₅=4.9.

Reviste indexate BDI

1. Valentina Gabi Miron*, Niki Vlad Mancași, **Vasilica Popescu***, Andrei Popescu, *Physico-Chemical Characteristics of Some Ecological Products Used for Textile Care*, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Volumul 71 (75), Numărul 1, 2025, Secția Chimie și Inginerie Chimică. DOI: [10.5281/zenodo.15063019](https://doi.org/10.5281/zenodo.15063019)
2. Romeo Pruneanu, **Vasilica Popescu**, Melinda Pruneanu, *Review - Chemical functionalization of cotton fabrics by selective oxidation*, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Secția Chimie și Inginerie Chimică, Volumul 71 (75) Numărul 3, **2025**, 85-121. DOI: [10.5281/ZENODO.17357520](https://doi.org/10.5281/ZENODO.17357520).
3. Nicoleta Tofănescu (Mihai), **Vasilica Popescu**, *Valorization of Prunus Spinosa extract as sustainable coloring agents in textile finishing: A green chemistry approach*. Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Volumul 71 (75), Numărul 4, 9-25, **2025**, Secția Chimie și Inginerie Chimică, DOI: [10.5281/zenodo.19660106](https://doi.org/10.5281/zenodo.19660106)

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		<ol style="list-style-type: none"> 1. Vasilica Popescu, Ana-Diana Alexandrescu, Gabriel Popescu, Viorica Vasilache, <i>Eco-Friendly Extraction of Curcumin from Turmeric and Dyeability of Textile Fibers</i>, <i>Fibers</i>, 13, 73, (2025), FI₂₀₂₅ =3,9. 2. Valentina-Gabi Stănescu, Vasilica Popescu*, Viorica Vasilache, Gabriel Popescu*, Cristina Mihaela Rimbu and Andrei Popescu, <i>Cleaner Processes for Making Laundry Soap from Vegetable Oils and an Essential Oil</i>, <i>Applied Sciences (Appl. Sci.)</i>, 15, 3821, (2025) p. 1-30, FI₂₀₂₅ =2,5. 3. Vasilica Popescu*, Marioara Petrea, Andrei Popescu, <i>Multifunctional Finishing of Cotton with Compounds Derived from MCT-₂-CD and Quantification of Effects Using MLR Statistical Analysis</i>, <i>Polymers MDPI</i> 13, 410, (2021) p.1-23, FI₂₀₂₁=3.426, FI₂₀₂₅ =4.9. 4. Alexandru Cocean, Iuliana Cocean, Nicanor Cimpoesu*, Georgiana Cocean, Ramona Cimpoesu, Cristina Postolachi, Vasilica Popescu, Silviu Gurlui*, <i>Laser Induced Method to Produce Curcuminoid-Silanol Thin Films for Transdermal Patches Using Irradiation of Turmeric Target</i>, <i>Appl. Sci.</i>, 11, 4030, (2021) p.1-12, FI₂₀₂₁= 2.474, FI₂₀₂₅ =2,5. 5. Popescu, V; Buciscanu, II; Pruneanu M., (...); Cretescu Igor; Chelariu P; Marin, M., <i>Sustainable functionalization of PAN to improve tinctorial capacity</i>, <i>Polymers</i> 13, 21 (2021), FI₂₀₂₁= 4,967, FI₂₀₂₅ =4.9. 6. Popescu, V; Blaga, AC; Pruneanu M., (...); Cretescu Igor; Cascaval, D, <i>Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials</i>, <i>Polymers</i> 13, no. 22, (2021), FI₂₀₂₁= 4,967, FI₂₀₂₅ =4.9. <p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Andreea Timofte, Alina Mihaela Palcu, Valentina-Gabi Stanecu, Ioana Roxana Corduneanu, Vasilica Popescu, <i>Application of ecodesign principles in the dyeing of natural fibre textiles</i>, The 9th
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		<p>edition of the International Symposium "Technical Textiles - Present and Future", Iasi, Romania, 20 November 2025.</p> <p>2. Iuliana Petcu, Nicoleta Tofănescu, Angela Dănilă, Romeo Pruneanu, Vasilica Popescu, <i>Green chemistry approaches to textile dyeing using plant waste extracts</i>, The 9th edition of the International Symposium "Technical Textiles - Present and Future", Iasi, Romania, 20 November 2025.</p> <p>3. Romeo Pruneanu, Melinda Pruneanu, Ingrid-Ioana Bucişcanu, Vasilica Popescu, From Waste Fibers to Functionality: Wool-derived Melanin for Advanced Technical Textiles, International Symposium "Technical Textiles - Present and Future 2025.</p> <p>4. Vasilica Popescu, Daniela Rotariu, Niki Vlad Mancaşi, Andrei Popescu, <i>Establishing the optimal method of scouring - bleaching flax fibres using a mathematical method based on equally important criteria</i> CORTEP 2022 IASI-RO DOI: 10.2478/9788367405133-036, Proceedings of the 18th Romanian Textiles and Leather Conference CORTEP 2022, 17-19 November, Iaşi, Romania, publicat în Sciendo în Februarie 2023, https://www.sciendo.com/ ; ISBN 978-83-67405-13-3 https://doi.org/10.0000/9788367405133; tip BDI, Managing editors: Rodica Harpa, Cristina Piroi, Adrian Buhu, Luminita Ciobanu, https://sciendo.com/book/9788367405133?tab=authors</p> <p>5. Vasilica Popescu, Lucian-Florin Puchin, Vlad Rotaru, Andrei Popescu, <i>Cotton Functionalization by Crosslinking Cellulose with Compounds Type Chlorohydrin</i> In Proceeding of the 7th International Symposium "Technical Textiles - Present and Future", 2021, 12 November, Iaşi, Romania, publicat în Editura Sciendo în Februarie 2022, ISBN978-83-66675-73-5, DOI:10.2478/9788366675735-012; tip BDI https://sciendo.com/chapter/9788366675735/10.2478/9788366675735</p>
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Contracte de cercetare.

1. PRNE/415/PRNE_P1/OP1/RSO1.1/PRNE_A1 - PR/NE/2024/P1/RSO1.1/1/2 - INFRASTRUCTURI CDI - Centrul pentru cercetare – inovare în domeniul textilelor și al industriei modei - SMART-Text-IS, Cod SMIS 334492, Contract 662 / 08.04.2025- membru
2. *Cercetari privind obtinerea de materiale superabsorbnte*, Proiect de cercetare nr. 16717/2022 încheiat cu un agent economic, valoare 59500 lei (cu TVA inclus), director de proiect Popescu Vasilica;
3. Grant pentru susținerea capacității de publicare, Grant intern GI/P11/2021, valoare 45000 lei, director de proiect Popescu Vasilica.

Alte realizări semnificative în domeniul cercetării:

Recenzor la 34 reviste ISI și 6 reviste non-ISI, dar in perioada 2021-2026

a efectuat un numar de 71 recenzii pentru 21 jurnale: *Carbohydrte Polymers, Textile Research Journal, Polymers, Molecules, Materials, Electronics, Fibers, Sensors, Textiles, Water, Nanomaterials, Journal of Composites Science, Coatings, Sustainability, Journal of Functional Biomaterials, Processes, Textiles, Fibers and Polymer, Natural Product Research, Cellulose, Carbohydrate Polymer Technologies and Applications* .

Coordonare doctorate: 6 (Miron (Stănescu) Valentina Gabi, Tofănescu (Mihai) Nicoleta , Timofte Andrea, Palcu (Condrea) Alina, Petcu (Căinoiu) Iuliana

Coordonare lucrări de cercetare/disertații: 10

		<ol style="list-style-type: none"> 1. Vopsirea materialelor tip bumbac realizată în mod simultan cu tratamentul de neșifonabilizare (Panfil Ștefan, 2022). 2. Comparatii între vopsirea clasică și vopsirea sustenabilă a firelor acrilice (Leonte Oana. 2022). 3. Tehnici moderne de imprimare aplicate în domeniul textil (Stănescu (Miron) Valentina-Gabi, 2023). 4. Vopsirea lânii asistată de biomordant extras din ceai negru (Ababei (căs. Amihăesei) Claudia, 2023). 5. <i>Daucus carota</i> L. ssp. <i>sativus</i>: sursă valoroasă de coloranți pentru vopsirea materialelor din cânepă (Marin Marina, 2024). 6. Optimizarea multifuncționalizării țesăturilor din 100% poliester, prin finisări succesive de ignifugare și hidrofobizare (Mancași Niki-Vlad, 2024). 7. Proiectarea unui flux tehnologic de finisare, de tip green, pentru țesături de cânepă (Dumitriu Oana. 2024). 8. Modalități de realizare de modele repetitive utile în imprimarea digitală a materialelor textilelor cu Photoshop și GIMP (Postudor Bogdan, 2025). 9. Influența tratamentelor preliminare asupra efectelor mercerizării tricotelurilor tubulare din bumbac 100% obținute prin procedeul sm (stretch mercerization) – (Ciopeică (Grecu) Mariana Eliza, 2025). 10. Vopsirea sustenabilă a cânepii cu extracte obținute din procese asistate de ultrasunete (Ciolacu (Corduneanu) Ioana Roxana, 2025). <p>Coordonare lucrări de cercetare prezentate în cadrul cercurilor științifice, în perioada 2021-2025: 6</p>
<p>Prună Liviu Conf. dr. ing.</p>		<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Liviu Prună, Andrei Slonovschi, The Automatic Representation Of The Oval When One Of Its Radii, JIDEG, Vol 20 No.1, Issue 1, pg. 77-82,

<p>108. Grafică asistată de calculator-aplicații</p>	<p>Utilizarea programelor de calculator care folosesc modelarea 3D ca punct de pornire în reprezentarea pieselor mecanice</p> <p>-</p> <p>Realizări: Articole ISI/BDI: 11</p>	<p>Online ISSN 2344-4681, Print ISSN 1843-3766, 2025.</p> <ol style="list-style-type: none"> 2. Prună L., Slonovschi A., The Automatic Plotting Of The Arcs Of Circle In The Chamfered Hexagonal Prism Case Representation, JIDEG, Vol 19 ISSUe 1, pg. 27-30, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024. 3. Baci, I.R., Prună L., Slonovschi A., Maxineasa, S., G., The Transformative Impact Of Advanced Graphics Technologies And Computer-Generated Imagery In Civil Engineering, JIDEG, Vol 19 ISSUe 1, pg. 77-82, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024. 4. Liviu Prună, Andrei Slonovschi, Using Free Contours To Obtain Specific Ornaments for Decorative Elements In A Garden, JIDEG Vol. 18, pg 9 – 12, ISSUE 1, Online ISSN 2344-4681, Print ISSN 1843-3766, 2023. 5. Andrei Slonovschi, Liviu Prună, Computer-Assisted Determination Of The Developments of Polyhedra And Intersection Polygons Determined By The Intersection of Two or More Polyhedra, Revista JIDEG, Vol. 17, No. 2, pg. 51 – 54, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022 6. Liviu Prună, Andrei Slonovschi, Visualisation Of Intersection Curves Resulting From The Intersection Of Two Cylindrical-Conical Surfaces, Vol. 17 No. 1, 2022, pg 43 – 46, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022 7. Prună Liviu, Slonovschi Andrei, The building process' automatization of the furniture for rest from a garden, Lucrări Științifice Seria Horticultură, Vol.64 / 2021, USAMV Iași, ISSN 1454 – 7376, 2021, pag. ?. 8. Prună Liviu, Slonovschi Andrei, Common mistake in the representation in triple orthogonal projection of cylindrical-conical and methods for their elimination, Lucrări Științifice Seria Horticultură, Vol.64 / 2021,
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		<p>USAMV Iași, ISSN 1454 – 7376, 2021.</p> <p>9. I-R Baci, D N Isopescu, M L Lupu, S G Maxineasa, L Pruna and S Dan, Ventilated façade solutions, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.</p> <p>10. M L Lupu, D N Isopescu, I-R Baci, S G Maxineasa, L Pruna and R Gheorghiu, Hempcrete - modern solutions for green buildings, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.</p> <p>11. S G Maxineasa, D N Isopescu, M L Lupu, I-R Baci, L Pruna and C Somacescu, The use of perlite in civil engineering applications, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.</p>
<p>Pruneanu Melinda Ș.L. dr. ing.</p> <p>218. Stimularea creativității</p> <p>308. Protecția mediului și a muncii în tehnologia chimică textilă</p> <p>311. Practica de</p>	<p>- Materiale, procese și produse inovative</p> <p>- Filosofia „producției curate”. Strategii și tactici sectoriale</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <p>Reviste cotate ISI</p> <p>1. Romeo Pruneanu, Melinda Pruneanu, Stelian-Sergiu Maier, Vasilica Popescu, Vasilica Maier, Viorica Vasilache, Daniel Timpu, Diana-Elena Ciolacu, <i>Structure-Property Relationships in Periodate Oxidized Cotton fabrics: Role of Textile Pretreatments</i>, Textiles, 6(2), 45, 2026. https://doi.org/10.3390/textiles6020045 (Q1, IF=4.9)</p> <p>2. Popescu, V., Blaga, A.C., Pruneanu M., (...); Cascaval, D, <i>Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials</i>, Polymers, 13, (22), 2021. https://www.mdpi.com/2073-4360/13/22/3867. (Q1, IF=4.9)</p>

<p>specialitate – 4 săptămâni 312.2. Prevenirea poluarii și protecția mediului 317. Siguranța utilajelor și instalațiilor industriale 402. Procese si utilaje pentru finisarea textilelor I 403. Chimia colorantilor si auxiliariilor utilizati în industria textilă II 407. Calitate si control în tehnologia chimică textilă</p>	<p>- Mediul și calitatea vieții. Bio-materiale și biotehnologii</p> <p>- Filosofia „producției curate”. Strategii și tactici sectoriale</p> <p>- Proiectarea tehnologiilor și produselor cu grad scăzut de agresivitate asupra mediului și calității vieții</p> <p>- Materiale, procese și produse inovativ: Funcționalizarea chimică a textilelor.</p> <p>Realizări: Articole ISI/BDI: 4 Conferințe: 7 Coordonare lucrări disertație: 15 Coordonare lucrări prezentate</p>	<p>3. Popescu, V; Buciscanu, I.I.; Pruneanu M., (...), Marin, M., <i>Sustainable functionalization of PAN to improve tinctorial capacity</i>, Polymers, 13(21), 2021. https://www.mdpi.com/2073-4360/13/21/3665. (Q1, IF=4.9)</p> <p>Revista indexate BDI</p> <p>1. Romeo Pruneanu, Vasilica Popescu, Melinda Pruneanu, <i>Review - Chemical functionalization of cotton fabrics by selective oxidation</i>, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Secția CHIMIE și INGINERIE CHIMICĂ, Volumul 71 (75) Numărul 3, 2025, 85-121, ISSN: 2537-2947. DOI: 10.5281/zenodo.17357520.</p> <p>Lucrări științifice publicate în volumele conferințelor Articole publicate in volumele unor simpozioane internaționale indexate BDI</p> <p>1. Romeo Pruneanu, Melinda Pruneanu, Ingrid-Ioana Buciușcanu, Vasilica Popescu, <i>From Waste Fibers to Functionality: Wool-derived Melanin for Advanced Technical Textiles</i>, Proceedings of the 9th International Symposium "Technical Textiles - Present and Future", 2026, 130-135. DOI: 10.2478/9788368412086-018</p> <p>2. Melinda PRUNEANU, Ingrid Ioana BUCIUȘCANU, Romeo PRUNEANU, <i>Physicochemical wool functionalization with an isocyanate derivative to achieve anti-felting properties</i>, Proceedings of the 19th Romanian Textiles and Leather Conference, Iasi, 07-09 November 2024, 2025, 176 - 183. DOI: 10.2478/9788367405829-027.</p> <p>3. Ingrid Ioana BUCIUȘCANU, Melinda PRUNEANU, <i>Tools and Courses of Action for Environmental Sustainability in the Tanning Industry</i>, Proceedings of the 18th Romanian Textiles and Leather Conference 2022, 2023, 280-287. DOI: 10.2478/9788367405133-043.</p>
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	<p>la cercuri științifice studentești: 8 Contracte: 4</p>	<ol style="list-style-type: none"> 4. Ingrid Ioana BUCIȘCANU, Melinda PRUNEANU, Marilena Corina BÎNDEANU, <i>UV-Absorbing Natural Products and their Potential Applications in Sun-Protective Textiles</i>, Proceedings of the 18 th Romanian Textiles and Leather Conference, 2023, 288-285. DOI: 10.2478/9788367405133-044. 5. Melinda Pruneanu, Ruxandra Bucișcanu, Ingrid Bucișcanu, <i>Extraction of Anthocyanins from Aronia Melanocarpa, as a Potential Natural Textile Dye</i>, Annals of the University of Oradea, FASCICLE OF TEXTILES, LEATHERWORK 2023, 87-94. 6. Melinda Pruneanu, Ingrid Bucișcanu, Vasilica Maier, Sorin Toma, <i>Recycling of Leather waste into valuable products with potential application in the field of technical textiles</i>, 7th International Symposium Technical Textiles - Present & Future, Iasi, Romania, 21021, 2022, 176-186. . https://doi.org/10.2478/9788366675735-030179 7. Ingrid Bucișcanu, Melinda Pruneanu, <i>Key elements of sustainability in the field of Technical Textiles</i>, 7th International Symposium Technical Textiles - Present & Future, Iasi, Romania, 12 noiembrie 2021, Book of Abstract, edition online, https://ttpf.ro/ <p>Contracte de cercetare științifică</p> <ol style="list-style-type: none"> 1. Contract METASKILLS - Alliance for Cooperation on Digital and Circular Economy Skills for the TCLF sector across Europe, ERASMUS-EDU-2022-PI-ALL-INNO-BLUEPRINT101111842, 2022-2025. https://euroleather.com/metaskills-project. (membru în colectivul de cercetare). 2. Contract EDRESS - European Digital Readiness Strategy for Clothing Studies, 2021-1-DE01-KA220-HED-000023124, 2021-2024. https://edressproject.com/edress/. (membru în colectivul de cercetare).
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		<p>3. Contract Skills4Smart TCLF Industries 2030 - Enhancing the modernisation and competitiveness of the European Union's Textile, Clothing, Leather, and Footwear (TCLF) sectors, TCLF nr. 2017-3536/001-001, 2017-2023, http://www.s4tclfblueprint.eu/. (membru al colectivului de cercetare).</p> <p>4. PRNE/415/PRNE_P1/OP1/RSO1.1/PRNE_A1 - PR/NE/2024/P1/RSO1.1/1/2 - INFRASTRUCTURI CDI - Centrul pentru cercetare – inovare în domeniul textilelor și al industriei modei - SMART-Text-IS, Cod SMIS 334492, Contract 662 / 08.04.2025- membru</p> <p>Coordonare lucrări de cercetare/disertații: 15</p> <ol style="list-style-type: none"> 1. Obținerea unei forme colagenice cu aplicații în bio-funcționalizarea fibrelor textile (Toma Sorin, 2021). 2. Absorbanti UV naturali cu aplicabilitate în finisarea materialelor textile cu protecție solară (Năsălean (Bîndeanu Marilena Corina, 2022). 3. Obținerea hidrogelurilor pe bază de colagen cu aplicații în domeniul textilelor medicale, cosmetice (Ioja (Saxon) Mariana Felicia, 2022). 4. Tratatment de anti-împâslire aplicabil fibrelor de lână (Pescari Tatiana-Ana, 2023). 5. Obținerea biopigmentului melaninic din deșeuri de lână, alternativă eco friendly de obținere a unor textile funcționale (Papp Eniko, 2023). 6. Efectul terapeutic al microemulsiilor pe bază de uleiuri esențiale (Luca Emese Csilla, 2023). 7. Textile medicale pe bază de colagen pentru tratarea leziunilor pielii (Pintilie (Cojocaru) Oana Veronica, 2024). 8. Obținerea aromotextilelor utilizând microemulsii pe bază de uleiuri esențiale (Lupu (Ungureanu) Nicoleta, 2024). 9. Vopsirea naturală a lânii cu antocianine extrase din fructele de aronia (<i>Aronia melanocarpa</i>) –(Bucîșcanu Ruxandra – Elena, 2024). 10. Lyocell, o fibră sustenabilă (Palotas Tunde Evi, 2025).
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		<p>11. Obținerea de nanofibre din polimeri naturali (Kiralay (Borzan) Ecaterina, 2025).</p> <p>12. Antistatizarea materialelor textile din fibre sintetice. (Florea (Pescari) Andra, 2025).</p> <p>13. Nanotehnologia în finisarea materialelor textile, (Borzan Ioan, 2025).</p> <p>14. Modelarea matematică și caracterizarea fermentării naturale pentru optimizarea reutilizării flotei în vopsirea naturală a lânii (Popescu Andrei, 2025).</p> <p>15. Strategii Ecologice Emergente în Finisarea Funcțională a Textilelor (Pescari Valentin, 2025).</p> <p>Coordonare lucrări de cercetare prezentate în cadrul cercurilor științifice studențești, în perioada 2021-2025: 8</p>
<p>Romaniuc Simona Conf. dr. mat.</p> <p>101. Analiză matematică și algebră liniară 105. Metode numerice si statistică matematică</p>	<p>Structuri geometrice pe varietăți diferențiabile</p> <p>Curbe magnetice pe varietăți diferențiabile</p> <p>Realizări: Capitole/Cărți sau pe web: 4 Articole ISI/BDI: 6</p>	<p>Cărți publicate în străinătate, în țară, pe plan local și pe web :</p> <ol style="list-style-type: none"> 1. Romaniuc, S. L., <i>Elemente de analiză matematică</i>, 280 pagini, Editura Performantica, Iași 2022, ISBN 978-606-685-953-0. 2. Druță – Romaniuc, S. L., Inoguchi, J. I., Munteanu, M. I., <i>Killing slant magnetic curves in the 3-dimensional Heisenberg group Nil₃</i>, International Journal of Geometric Methods in Modern Physics, 6 (2023) 2350094 (28 pp.), https://doi.org/10.1142/S0219887823500949 3. Druță – Romaniuc, S. L., <i>General natural α-structures parallel with respect to the Shouten-Van Kampen connection on the tangent bundle</i>, Mediterranean Journal of Mathematics, 19 (2022), 195, 21 pp., https://doi.org/10.1007/s00009-022-02093-4 4. Bejan, C. L., Druță – Romaniuc, S. L., <i>Magnetic curves on cotangent bundles endowed with the Riemann extension</i>, Colloquium Mathematicum, 168 (2022), 47-58, https://doi.org/10.4064/cm7924-12-2020 <p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p>

		<p>Articole publicate în reviste cotate ISI</p> <ol style="list-style-type: none"> 1. Druță-Romaniuc, S. L., Hrețcanu, C. E., Gezer, A., New structures of golden type on the tangent bundle, Turkish Journal of Mathematics 49 (2025), 6, 850-871, https://doi.org/10.55730/1300-0098.3629 2. Druță – Romaniuc, S. L., Hrețcanu, C. E., <i>On the geometry of semi-invariant submanifolds in (α, p)-golden Riemannian manifolds</i>, Mathematics, 12 (23) (2024), Art. No. 3735, 16 pp., https://doi.org/10.3390/math12233735 3. Druță – Romaniuc, S. L., <i>Quasi-statistical Schouten–van Kampen connections on the tangent bundle</i>, Mathematics 11 (2023), 4614, 20 pp., https://doi.org/10.3390/math11224614 4. Druță – Romaniuc, S. L., Inoguchi, J. I., Munteanu, M. I., <i>Killing slant magnetic curves in the 3-dimensional Heisenberg group Nil_3</i>, International Journal of Geometric Methods in Modern Physics, 6 (2023) 2350094 (28 pp.), https://doi.org/10.1142/S0219887823500949 5. Druță – Romaniuc, S. L., <i>General natural α-structures parallel with respect to the Shouten-Van Kampen connection on the tangent bundle</i>, Mediterranean Journal of Mathematics, 19 (2022), 195, 21 pp., https://doi.org/10.1007/s00009-022-02093-4 6. Bejan, C. L., Druță – Romaniuc, S. L., <i>Magnetic curves on cotangent bundles endowed with the Riemann extension</i>, Colloquium Mathematicum, 168 (2022), 47-58, https://doi.org/10.4064/cm7924-12-2020
<p>Sibiescu Doina Ș.L. dr. ing.</p>		<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale. Articole indexate în baze de date internaționale</p>

<p>104. Chimie 1 (Chimie Anorganică)- aplicații</p> <p>112.1. Chimia compușilor coordinativi</p>	<p>-Metode moderne de extracția coloranților naturali</p> <p>- Influența câmpului magnetic asupra sintezei unor combinații complexe</p> <p>Realizări: Articole ISI/BDI: 2 Articole în străinătate: 1 Articole în reviste CNCSIS: 5 Conferințe: 2</p>	<ol style="list-style-type: none"> 1. Nkemaja Dydimus Efeze, Eteme Enama Serge, Nsangou Abdouramane, Doina Sibiescu, Fabien Ebanda Betene, Pierre Marcel Anicet Noah, Hambaté Gomdjé Valery, <i>Bio-Textiles Against Arthropod Pests: A Review</i>, Environmental Engineering and Management Journal, April 2024, Vol. 23, No. 4, 729-734, doi.org/10.30638/eemj.2024.056 2. Nsangou Abdouramane, Doina Sibiescu, Nkemaja Dydimus Efeze, Pierre Marcel Anicet Noah, Fabien Ebanda Betene, Hambaté Gomdjé Valery, <i>Analysis Of Bio-Based Antimicrobial Textiles: A Review</i>, Environmental Engineering and Management Journal June 2023, Vol.22, No. 6, 1137-1143, http://doi.org/10.30638/eemj.2023.094. <p>Lucrări științifice publicate în reviste din străinătate.</p> <ol style="list-style-type: none"> 1. Mfourigam Isofa, Evariste Fongzossie, Joseph Zobo Mfomo, Achille Bernard Biwole, Nsangou Abdouramane, Doina Sibiescu, <i>Meta-Analysis of Pellet Manufacturing in Cameroon</i>, September 2025, Open Access Library Journal 12(9):14020, DOI: 10.4236/oalib.1114020, ISSN Online: 2333-9721, ISSN Print: 2333-9705 <p>Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.</p> <ol style="list-style-type: none"> 1. Nangou Abdouramane, Eteme Enama Serge, Nkemaja Dydimus Efeze, Betene Fabien Ebanda, Doina Sibiescu, Noah Pierre Marcel Anicet, Mewoli Armeledwige, Betene Omgba Achille Desire, Ngum Lesley Ngum, Ndoum Anigue Ngoulouma Gaspard, <i>Bio-Insecticide Impact of Sida Rhombifolia Fabric Treated With Aloe Vera On Wild Anopheles Gambiae</i>, , Buletinul Institutului, Politehnic din Iași, Volumul 71 (75), Numărul 3, 2025, Secția CHIMIE și INGINERIE CHIMICĂ, DOI: 10.5281/zenodo.17357350 2. Abdouramane Nsangou, Doina Sibiescu, Pierre Marcel Anicet Noah, Nkemaja Dydimus Efeze, Fabien Ebanda Betene, Benjamin Ii Castro Mpah Ekoume, Valery Hambaté Gomdjé, <i>Benchmarking On Aloe Vera</i>
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		<p><i>Gel Extraction</i>, Buletinul Institutului, Politehnic din Iași, Volumul 69 (73), Numărul 1, 2023, Secția CHIMIE și INGINERIE CHIMICĂ, DOI: 10.5281/zenodo.7767181</p> <p>3. Abdouramane Nsangou, Doina Sibiescu, Dydimus Efeze Nkemaja, Pierre Marcel Anicet Noah, Fabien Ebanda Betene, Valery Hambaté Gomdjé, <i>Aloe Vera Gel As A Biomordant In The Finishing Of Vegetable Textiles: A Review</i>, Buletinul Institutului, Politehnic din Iași, Volumul 68 (72), Numărul 4, 2022, Secția CHIMIE și INGINERIE CHIMICĂ, December 2022, DOI: 10.5281/zenodo.7539811</p> <p>4. Abdouramane Nsangou, Doina Sibiescu, Dydimus Nkemaja Efeze, Pierre Marcel Anicet Noah, Fabien Ebanda Betene and Valery Hambaté Gomdjé, <i>Preliminary Study on the Interaction of Skin Microbes in the Development of Cosmetic and Textile Products: A Review</i>; Buletinul Institutului Politehnic din Iași, Secția Chimie si Inginerie Chimică, Volumul 68 (72), Numărul 3, 2022, 10.5281/zenodo/7544341</p> <p>5. Sibiescu D., Vizitiu M., Natural dye extraction from <i>Pelargonium roseum</i> plants using the ultrasound method, Bul. Inst. Polit. Iași, s. Chimie și Inginerie Chimică, Volumul 66 (70), Numărul 4, 2020, ISSN (Online): 2537-2947, ISSN (Print): 0254-7104.</p> <p>Lucrări științifice publicate în volumele conferințelor.</p> <p>1. Dydimus Efeze Nkemaja, Serge Eteme Enama, Abdouramane Nsangou, Doina Sibiescu, Fabien Ebanda Betene, Pierre Marcel Anicet Noah, Achille Désiré Betenéomgba, <i>Design of an Ecological Insecticidal Knitting, (PDF) Book of abstracts CORTEP 2024</i>. 19th Romanian Textiles and Leather Conference CORTEP 07- 09 November 2024, Ed. Performantica Iasi, ISBN 978-630-328-118-6</p> <p>2. Sibiescu Doina, Carmen Mita, Mihaela Vizitiu, Andra Manuela Crudu, <i>New complexes of silver (I) with N-hydroxy-succinimide</i>,</p>
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		December 2016, SPIE - The International Society for Optical Engineering, Conference: Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies, 2016, DOI: 10.1117/12.2243370
<p>Soreanu Gabriela Conf. dr. ing.</p> <p>303. Optimizarea proceselor tehnologice-aplicații</p>	<p>-Procese de oxidare avansata aplicate in epurarea apelor uzate textile incarcate cu coloranti greu biodegradabili.</p> <p>-Studiul indepartarii colorantilor textili din apele uzate folosind sorbenti pe baza de deseuri textile.</p> <p>-Modelarea si optimizarea performantei de remediere a calitatii aerului utilizand noi materiale de tip aerogel</p> <p>Realizări: Articole ISI/BDI: 18 Conferințe: 2 Invenții: 3 Contracte: 6</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internationale.</p> <ol style="list-style-type: none"> 1. Loredana-Vasilica Postolache, Gabriela Soreanu, Igor Cretescu, Nita Tudorachi, Ion Anghel, Dana Maria Preda, Daniela Rusu, Mirela-Fernanda Zaltariov, Jose Luis Valverde, Gabriela Lisa. <i>Alternative energy sources from wastes and microalgae Chlorella vulgaris used for the capture of atmospheric CO2 in the production of cement. Materials Today Sustainability 31, art 101175, 2025.IF=7.92.</i> 2. Ramona Elena Tataru-Farmus, Maria Harja, Lucia Tonucci, Liliana Lazar, Gabriela Soreanu, Igor Cretescu. <i>Green CO₂ Capture from Flue Gas Using Potassium Carbonate Solutions Promoted with Amino Acid Salts. Clean Technologies 7, 4: 1-18, 2025.IF=4.7</i> 3. Gabriela Lisa, Igor Cretescu, Catalin Tanase, Constantin Mardari, Nita Tudorachi, Andra Cristina Enache, Petrisor Samoila, Gabriela Soreanu*. <i>Assessment of Hedera helix response in polluted environment through cross advanced investigation techniques. Journal of Thermal Analysis and Calorimetry 150: 9181–9194, 2025.IF=3.1</i> 4. Soreanu G.*, Tanase C., Mardari C., Cretescu I. <i>Assessment of air purification biosystems for environmental applications. Process Safety and Environmental Protection. 195, 106742, 2025 IF=6.9(zona rosie – autor principal)</i> 5. Lisa G., Cretescu I., Enache A.C., Tanase C., Samoila P., Mardari C., Soreanu G.*. <i>Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy. Renewable and</i>

		<p>Sustainable Energy Reviews 207, 114890, 2025.IF=16.3.(zona rosie – aut princip (coresp))</p> <ol style="list-style-type: none"> 6. Postolache L.V., Soreanu G., Cretescu I., Lisa G. Analysis of the thermal behaviour of various wastes co-processed in cement plants. Environmental Engineering and Management Journal 24(1), 211-221, 2025.IF=0.9 7. Nouj N., Majbar Z., Abelouah M.R., Hamou A.B., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., Soreanu G., Cretescu I. Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation. Journal of Environmental Chemical Engineering 12, 112318, 2024.IF=7.4 8. Soreanu G.*, Tanase C.,Mardari C., Gorgan D.L.,Cretescu I. Physiological Investigations of the Plants Involved in Air Biofiltration: Study Case. Sustainability 16, 1529, 2024.IF=3.3 9. Diaconu M., Soreanu G.*, Balan C.D., Buciscanu I.I., Maier V., Cretescu I. Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation. Water 15, 3962: 1-18, 2023.IF=3 10. G. Lisa, I. Anghel, D.M. Preda, C. Lisa, I. Cretescu, I.I. Buciscanu, M. Diaconu, G. Soreanu*. Moving towards valorization of biowastes issued from biotrickling filtration of contaminated gaseous streams: A thermochemical analysis-based perspective. Sustainability 14(17), 10737: 1-11, 2022. IF=3.3 11. N. Nouj, N. Hafid, N. El Alem, I.I. Buciscanu, S.S. Maier, P. Samoila, G. Soreanu, I. Cretescu, C.D. Stan. Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment. Materials 15(8), 2803: 1-27, 2022.IF=3.1
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		<p>12. Diaconu M., Volf I., Cretescu I., Juzsakova T., Soreanu G.* Carbon biocapture in the frame of climate change and air quality issues: a preliminary microbiota screening. <i>Environmental Engineering and Management Journal</i> 21(2): 333-341, 2022.IF=0.9</p> <p>Articole indexate în baze de date internaționale</p> <p>13. Loredana Vasilica Postolache, Gabriela Soreanu, Igor Cretescu, Gabriela Lisa. Modeling and Optimization of Thermal Stability and Heat Release Capacity of Waste Mixtures with Biomass Residues (<i>Chlorella vulgaris</i>). <i>Advanced Chemical Process Analysis</i> 1(1): 6. doi: 10.53941/acpa.2025.100006, 2025</p> <p>14. Balaes T., Tanase C., Soreanu G.*, Mardari C., Cretescu I. (2023). Soil Fungi Resistant To Organic Pollutants As A Potential Solution For Air Biofiltration. <i>Ecology & Safety</i> 17: 16-23</p> <p>15. Lazar L., Lisa G., Soreanu G., Harja M. (2023). Conversion of plaster molds wastes into the new inorganic products by thermal dehydration. <i>Ecology & Safety</i> 17: 24-34</p> <p>16. G. Soreanu*, C. Mardari, C. Tanase, I. Volf, L. Lazar, I. Cretescu (2022). Carbon dioxide reduction potential of some plants involved in the removal of air pollutant mixtures by biofiltration. <i>Ecology & Safety</i> 16: 27-33</p> <p>17. G. Soreanu*, C. Mardari, C. Tanase, I. Volf, V. Maier, I. Cretescu (2022). Preliminary assessment of air purification by aerial plant based biofilter. <i>Ecology & Safety</i> 16: 34-41</p> <p>18. Cretescu I., R. Borodaev, D. Lutic, G. Soreanu, L. Lazar, J. Gitlestad, E. Zubcov (2022). Redox state assessment for the Danube water in the Sulina channel using a mobile water quality monitoring station. <i>Annals of "Dunarea De Jos" University of Galati – Fascicle II, year XIV (XLV), No. 2.</i> 122-125. https://doi.org/10.35219/ann-ugal-math-phys-mec.2022.2.13</p>
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		<p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. G. Soreanu*, I. Cretescu, D. Lutic, M. Harja, S.S. Maier (2022). Study of microalgae influence on carbon capture from gaseous streams within the biotrickling filtration process. In: Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 02 - 11 July, 2022, Albena, Bulgaria, Vol22, Issue 4: 391-398. 10.5593/sgem2022/4.1/s19.50.(ISI Conference) 2. G. Soreanu*, I. Cretescu, E.N. Dragoi, D. Lutic, F. Leon (2022). Towards low-carbon emission biotrickling filtration of volatile organic compounds from air: an artificial neural network approach. In: Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 02 - 11 July, 2022, Albena, Bulgaria, Vol22, Issue 4: 429-436. 10.5593/sgem2022/4.1/s19.55.(ISI Conference) <p>Invenții.</p> <ol style="list-style-type: none"> 1. Ignat M., Samoila P., Bele A., Cojocaru C., Cretescu I., Soreanu G., Harabagiu V. (2024). Procedeu de obtinere a silicei poroase cu aplicatii in dezumidificarea fluxurilor gazoase. Brevet RO, 134885 (A2), in baza Hotararii OSIM din 30.07.2024. 2. Cretescu I., Arghirescu M., Gorecki G.P., Soreanu G., Lazar L., Harja M. (2024). Izoleta de pat cu sistema de purificare a aerului. Brevet RO, nr. 134366 B1/30.09.2024. 3. Cretescu I., Dragoi E.N., Soreanu G. (2022). Sistem de monitorizare a calitatii apei de suprafata amplasat pe o nava de pasageri. Brevet RO, nr. 135089 B1/2022 <p>Contracte de cercetare.</p>
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		<p>Director de grant/contract</p> <ol style="list-style-type: none"> 1. Proiect PCE 39/2021, Program PN-III-P4/ Fundamental and frontier research (UEFISCDI), 2021-2023, title: Biofiltration of air from urban automotive underground spaces / BIO-AUTO (director) 2. Proiect 301PED/2020, Programul PN-III-P2-2.1/ Competitivitate prin cercetare, dezvoltare și inovare (UEFISCDI), 2020-2022, titlu: Biotrickling filtration upgrade in the context of atmospheric protection and climate change / BIO-UP (director) <p>Membru in colectiv</p> <ol style="list-style-type: none"> 3. Upcycling of wastes and by-products to green chemicals and energy (UP2Green), awarded in the internal research grants competition of INGENIUM Project, financed by the Erasmus-Edu-2022-Eur-Univ Project, nr. 101090042, 2024-2025 (membru) 4. Proiect ERANET 107/01.05.2019, 2019-2022, title: Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources/Water Harmony (membru) 5. Proiect 739 / 25.07.2025, Program PR/NE/2024/P1/RSO1.1_RSO1.3/1 / Proiecte de CDI și investiții în IMM, 2025-2027, titlu: Instalație inovatoare de obținere a hidrogenului verde prin gazeificarea Biomasei, cu sistem de filtrare avansat "Green-Gas-H2" (membru) 6. Contract de cercetare 19592/2019 "Noi materiale pe baza de Fibra de sticla si valorificarea avansata a deseurilor din cadrul SC BICO INDUSTRIES SRL", 2019-2022 (membru)
<p>Stanciu Tudor Conf. dr.</p> <p>319. Instruire asistată de calculator</p>	<p>Contribuții la creșterea competitivității în domeniul învățământului ingineresc</p>	<p>Lucrări științifice publicate în volumele conferințelor.</p> <ol style="list-style-type: none"> 1. Stanciu T. (2023), Effect of religious beliefs on motivation for learning. A scoping review, în volumul conferinței Themes and Fundamental Ideas in the Field of Psychology and Educational Sciences, Iași, 2023. 2. Stanciu T. (2023), Metodologie educațională pentru învățare automată și calculul neural, în volumul Simpozionul Științific Național Paradigma

<p>320. Practică pedagogică în învățământul preuniversitar obligatoriu (1) 322. Practică pedagogică în învățământul preuniversitar obligatoriu (2)</p>	<p>Realizări: Cărți: 15 Conferințe: 2 Contracte: 3</p>	<p>conștiinței - abordări multi și interdisciplinare, Ediția a V-a: Spiritualitate și / sau inteligență artificială, Iași, decembrie 2023.</p> <p>Contracte de cercetare/granturi.</p> <ol style="list-style-type: none"> 1. ROSE AG-329, Școala de vară pentru elevi „Vreau să fiu student”, MECSTUD, 2020 -2024, 28 luni, director de grant IANUȘ GELU, categorie de grant SGCUPV sesiuni de formare: Nediscriminarea – egalitate de șanse în carieră Valoare grant 914617 Lei, in 2024: 182.923 lei. 2. “Bariere Ridicate Acum pentru Viitorul Elevilor la CMMI – BRAVE, 2020-2024” organizat de Facultatea de Construcții de Mașini și Management Industrial, în cadrul Proiectului privind Învățământul Secundar (ROSE), Schema de Granturi Competitive pentru Universități - SGCUPV, proiect AG324. Valoarea bugetului /2024 este de 287352,38 RON lei in 2024. 3. CNFIS-FDI-2024-F-0036 cu titlul “Dezvoltare instituțională pentru consolidarea angajabilitatii absolvenților TUIASI– TechGo3”, domeniul 7, 265000 lei in 2024.
<p>Știrbu Cătălina Conf. dr. 110 / 211. Educație fizică și sport 1 / 2</p>	<p>Nu este cazul</p>	
<p>Suditu Gabriel Dan Ș.L. dr. ing. 306. Automatizarea proceselor din industria chimică</p>	<p>-Modelarea si optimizarea sistemelor chimice -Retele neuronale folosite la modelarea sistemelor chimice</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Ahmadi, F; Samadi, MT; Godini, K; Moradi, S; Dragoi, EN; Suditu, GD. An Approachable Anaerobic Bioreactor for Remote Biogas Production: Experimental Analysis and Neuroevolution Modeling. International Journal of Energy Research, 2024, art no 4260678, ISSN: 0363-907X, 2024, DOI: 10.1155/er/4260678.

	<p>-Algoritmi genetici cu utilizare in optimizarea sistemelor chimice</p> <p>Realizări: Capitole/Cărți sau pe web: 2 Articole ISI/BDI: 6 Conferințe: 1</p>	<ol style="list-style-type: none"> 2. Suditu GD, Dragoi EN, Puitel AC, Nechita MT. Technological and Economic Optimization of Wheat Straw Black Liquor Decolorization by Activated Carbon. <i>Water</i>, 15(16), art no 2911, ISSN: 2073-4441, 2023, DOI: 10.3390/w15162911 3. Puitel AC, Suditu GD, Dragoi EN, Danu M, Ailiesei GL, Balan CD, Chicet DL, Nechita MT. Optimization of Alkaline Extraction of Xylan-Based Hemicelluloses from Wheat Straws: Effects of Microwave, Ultrasound, and Freeze-Thaw Cycles. <i>Polymers</i>, 15 (4), art no 1038, 2023, DOI: 10.3390/polym15041038 4. MT Nechita GD Suditu, (...); EN Dragoi, <i>Differential evolution-based optimization of corn stalks black liquor decolorization using active carbon and TiO2/UV</i>, <i>Scientific Reports</i> 11 (1), 2021 5. AC Puitel, GD Suditu, D Gavrilescu, <i>Fractionation of agricultural waste biomass by means of integrated biorefinery concept</i>, <i>Environmental Engineering and Management Journal</i> 20 (3), pp.389-396, 2021 6. GD Suditu, AC Puitel; (...), D Gavrilescu, <i>Treatment of corn stalk pulping effluent by electro-coagulation</i>, <i>Environmental Engineering and Management Journal</i> 20 (3) , pp.347-353, 2021 <p>Articole publicate în volume indexate ISI Proceedings</p> <ol style="list-style-type: none"> 1. Elena Niculina DrăgoiGabriel Dan SudituSilvia Curteanu, Optimization of Polyacrylamide Based Multicomponent Hydrogels Synthesis Using a Neuro-Evolutionary Strategy, <i>International Conference on Engineering Optimization, EngOpt 2018: EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization</i> pp 164-171.
<p>Șuteu Daniela</p>		<p>Contracte/granturi:</p>

<p>Prof. dr. ing.</p> <p>318. Educație antreprenorială</p> <p>415. Educație antreprenorială.</p> <p>Antreprenoriat creativ I+II</p>	<p>- Cum să gândești ca antreprenor</p> <p>- Creativitatea în sfera antreprenoriatului.</p> <p>Realizări:</p> <p>Contracte/granturi: 3</p>	<ol style="list-style-type: none"> 1. PN-III-P2-2.1-PED-2019-1063 . Contract nr. 490 PED/2020, 2020-2022. 2. Expert grup tinta, Proiect POCU/626/6/13/130661, Titlu proiect: ”Stagii de PRACTICĂ performante pentru studenții Universității Tehnice Gheorghe Asachi Iași – PRACTIC”, Contract de finanțare OIRPOSDRU NE: 10538/ 22.09.2020,Cod SMIS: 130661, Dr.proiect : Prof.uni.dr. Neculai Seghedin, 2020 3. Director proiect: Obținerea de Materiale cu Valoare Adaugata prin Valorificarea Subproduselor Industriale (AddValueMat)”
<p>Tufeanu Magda</p> <p>Lector dr.</p> <p>118. Psihologia educației</p> <p>119. Pedagogie I-aplicații</p>	<p>-Psihologia educației – repere conceptuale și practice</p> <p>- Subrealizarea școlară a adolescenților contemporani în contextul schimbării sociale</p> <p>Realizări:</p> <p>Capitole/Cărți sau pe web: 1</p> <p>Articole ISI/BDI: 6</p> <p>Contracte/granturi: 1</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Tufeanu, M., Caranfil, N. G., & Robu, V. (2025). Smartphone addiction in preadolescents and adolescents: Predictors and consequences. Journal of Innovation in Psychology, Education and Didactics, 29(2), 223-240. doi:10.29081/JIPED.2025.29.2.06, (revistă indexată în EBSCO, CEEOL, ProQuest, ERIH PLUS, DOAJ, Scipio, International Innovative Journal Impact Factor, CiteFactor, EuroPub database, Open Academic Journals Index, ResearchBib, Universal Impact Factor). A se accesa: https://jiped.ub.ro/archives/4061 2. Robu, V., Tufeanu, M., Stoica, C.-M., (2024), Social representation of problematic students based on the perspective of preschool and primary school teachers. Journal of Innovation in Psychology, Education and Didactics, vol. 28, nr. 2/2024, pp. 227-238. ISSN (print) 2247-4579, e-ISSN 2392-7127 (revistă indexată în EBSCO, CEEOL, ProQuest, DOAJ, SCIPPIO, International Innovative Impact Factor, CiteFactor, EuroPub Database, Open Academic Journals Index, ResearchBib, Universal Impact Factor). A se accesa https://jiped.ub.ro/archives/3915 . doi: 10.29081/JIPED.2024.28.2.08

		<p>3. Tufeanu, M., Robu, V., (2023), Reprezentarea socială a subrealizării școlare în rândul elevilor de ciclu primar: perspectiva cadrelor didactice, <i>EcoSoEn. Științe Economice, Sociale și Inginerești</i>, vol 6, nr. 3-4/2023, pp. 72-82, revistă editată de Universitatea Liberă Internațională din Moldova, ISSN 2587-344X, e-ISSN 2587-425X (indexată în CEEOL, DOAJ, IBN, Index Copernicus International, Munich Personal RePEc Archive/MPRA, Academia.edu). https://ibn.idsi.md/ro/vizualizare_articol/194545 , doi https://doi.org/10.54481/ecosoen.2023.3.07</p> <p>4. Robu, V., Caranfil, N. G., Tufeanu, M., Sandovici, A., (2023), Predicting engagement with school: A study on Romanian adolescents. <i>Journal of Innovation in Psychology, Education and Didactics</i>, vol. 27, nr. 2/2023, pp. 211-230, ISSN: 2247-4579, e-ISSN: 2392-7127 (revistă indexată în CEEOL, DOAJ, E-International Journals of Academic & Scientific Research, Open Academic Journals Index, ResearchBib, SCIPPIO). A se accesa https://jiped.ub.ro/archives/3688 . doi: 10.29081/JIPED.2023.27.2.06</p> <p>5. Tufeanu, M., Robu, V., Petrescu, Z.-M., (2022), Abilitățile sociale în rândul cadrelor didactice care lucrează în învățământul primar: studiu exploratoriu. <i>EcoSoEn. Științe Economice, Sociale și Inginerești</i>, vol. 5, nr. 1-2/2022, pp. 143-154, rev. editată de Universitatea Liberă Internațională din Moldova, ISSN 2587-344X, e-ISSN 2587-425X (revistă în CEEOL, DOAJ, IBN, Index Copernicus International, Munich Personal RePEc Archive/MPRA, Academia.edu). http://ecosoen.ulim.md/index.php?id=100. doi: https://doi.org/10.54481/ecosoen.2022.1-2.16</p> <p>6. Robu, V., Tufeanu, M., (2021), Reprezentarea socială a muncii educatorilor: perspectiva studenților care urmează programul de studii pedagogia învățământului primar și preșcolar. În revista "Psihologie-</p>
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<p>Ungureanu Adrian Prof. dr.</p> <p>214.2. Cataliză Industrială și Catalizatori</p>	<ul style="list-style-type: none"> - Hidrogenarea catalitică a moleculelor platformă derivate din biomasă - Hidrodeoxigenarea catalitică a compușilor derivați din biomasă - Sinteza și caracterizarea nanoparticulelor metalice (oxidice) pe suporturi mezoporoase ordonate cu arhitecturi 2D și 3D pentru aplicații catalitice 	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. <u>Adrian Ungureanu</u>, Mihaela Bectoras, Carmen Ciotonea, Cédric Gennequin, Sébastien Royer, Cezar Catrinescu, Iron oxide nanoparticles confined in SBA-15 via melt infiltration as efficient Fenton-like catalysts for lindane degradation, Journal of Environmental Chemical Engineering, 13, 2025, 120462. 2. Carmen Ciotonea, Yaqian Wei, <u>Adrian Ungureanu*</u>, Cezar Catrinescu, Olivier Gardol, Anne-Sophie Mamede, Franck Dumeignil, Sébastien Paul, Louise Jalowiecki-Duhamel, Sébastien Royer, Ni (0) ex-phyllsilicate as efficient and stable low temperature CH₄ dry reforming catalyst, ChemCatChem, 2023, e202300245. 3. Camila A. Teles, Carmen Ciotonea, Nicolas Gomes, Vinicius O.O. Goncalves, <u>Adrian Ungureanu</u>, Cezar Catrinescu, Maya Marinova, Jean-Marc Clacens, Sébastien Royer, Fabio B. Noronha, Frederic Richard, Hydrodeoxygenation of m-cresol over Pd/Al-SBA-15 catalysts: Effect of Al content on the deoxygenation reaction pathways, Applied Catalysis A: General, 641, 2022, 118686.

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<p>Ursan Maria Ș.L. dr. ing.</p> <p>204. Electrotehnică și electronică</p>	<p>- Cercetări privind dezvoltarea și testarea de materiale compozite nano- conductive pentru ecranare electromagnetice</p> <p>-Studiul influenței parametrilor neliniari ai miezului asupra preciziei transformatoarelor de măsură</p> <p>Realizări: Conferințe: 7 Coordonari lucrări pentru cercurile științifice: 5 Coordonari disertatie: 5</p>	<p>Lucrări științifice publicate în volumele conferințelor științifice indexate in baze de date internaționale (BDI)</p> <ol style="list-style-type: none"> O. Plopa, W. Zodi and M. Ursan, "Study of the Influence of Nonlinear Core Parameters on the Precision of Instrument Transformers," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 740-744, doi: 10.1109/SIELMEN67352.2025.11260656 G. A. Ursan, M. Ursan, O. Plopa and A. Chirica, "Use of Recycled Plastic for Educational Purposes," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 312-315, (doi: 10.1109/EPEi63510.2024.10758185./, BDI: IEEE Data Base, SCOPUS U. Maria, U. George-Andrei and P. Olga, Practical Application for Monitoring the Behavior of a Series RLC Circuit, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 065-068,(BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600325) U. George-Andrei, P. Olga, O. Alin-Alexandru, I. Ursu and U. Maria, Dielectric Properties of Malleable Composite Materials in Electromagnetic Field, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 1-4, (BDI: IEEE Data Base DOI: 10.1109/SIELMEN53755.2021.9600422)

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<p>Velniciuc Adi-Mihaiță Asistent dr.</p> <p>210. Elemente de inginerie mecanică (proiect)</p>	<p>- Cercetări privind influența masei și vitezei vehiculelor asupra deplasării podurilor</p> <p>Realizări: Articole ISI/BDI: 9</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale</p> <ol style="list-style-type: none"> 1. Velniciuc, A. M., Bujoreanu C. and Boacă G., (2024), Numerical Analysis Of Vehicle Loads Using Matlab, Environmental Engineering and Management Journal (EEMJ), vol.23, numărul 11, 2379-2388, IF = 0.9/2024 2. Alaci, S., Ciornei, FC., Romanu, IC., Velniciuc, A. M., Bujoreanu, C. (2023), Study of Vibrations of a Cantilever Beam with Uniformly Distributed Mass. In: Doroftei, I., Nitulescu, M., Pisla, D., Lovasz, EC. (eds) Proceedings of SYROM 2022 & ROBOTICS 2022. IISSMM 2022. Mechanisms and Machine Science, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-031-25655-4_11 (SCOPUS)

		<ol style="list-style-type: none"> 3. Velniciuc, A. M and Bujoreanu, C., (2022), Some analyzes on box girders bridges - literature review , IOP Conference Series: Materials Science and Engineering, Volume 1262, The 10th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2022), doi:10.1088/1757-899X/1262/1/012039 (Google Scholar, Index Copernicus) 4. Oprișan, G., Benchea, M., Bujoreanu, C., Cozmanciuc, R., Romila, C., & Velniciuc, A. M., (2025), Sustainable Materials for Soundproofing of the Educational and Residential Spaces, Proceedings of the XXV International Scientific Conference VSU'2025, Sofia, Bulgaria, ISSN 1314-071X. 5. Velniciuc, A. M., & Bujoreanu, C., (2023), Loads on Bridges - Overview, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 69 (73), pp. 9-22. doi:10.2478/bipcm-2023-0011 (Google Scholar, Index Copernicus) 6. Velniciuc, A. M., & Bujoreanu, C., (2022), Vehicles Loads Influence on Box Girder Bridges, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 68 (72), pp. 41-50. doi:10.2478/bipcm-2022-0013 (Google Scholar, Index Copernicus) 7. Velniciuc, A. M., Bujoreanu, C., & Tufescu, A., (2025), Finite Element Analysis of A Scaled Bridge Span: Influence of Vehicle Mass on Displacements, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 71 (75), pp. 1-13, doi: 10.2478/bipcm-2025-0036 (Google Scholar, Index Copernicus) 8. Maftai, A., Pernin T., Coman, B., Bujoreanu, C., & Velniciuc, A. M., (2025), Nvh Investigation on Vehicle Chasis, Bulletin of the Polytechnic Institute of Iași, Machine constructions Section, 71 (75), pp. 1-13, doi: 10.2478/bipcm-2025-0026 (Google Scholar, Index Copernicus)
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<p>Vizitiu Mihaela Aurelia</p> <p>Ș.L. dr. chim.</p> <p>104. Chimie 1 (Chimie Anorganică)- aplicații</p> <p>112.2. Chimie bioanorganică 114. Noțiuni fundamentale în chimie</p> <p>207. Chimie fizică 2: Cinetica</p> <p>208. Electrochimie și coroziune</p>	<p>- Reducerea coloranților în mediu acid</p> <p>- Sinteza și studiul unor combinații complexe importante sursa de microelemente pentru plante</p> <p>- Studiul proprietăților fizico-chimice a unor sisteme binare</p> <p>- Studiul termo-cinetic al unor compusi coordinați ai unor metale cu bioliganzi</p> <p>- Studiul coroziunii electrochimice</p> <p>Realizări:</p> <p>Articole ISI/BDI: 4</p>	<p>Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.</p> <ol style="list-style-type: none"> 1. Nicolae Apostolescu, Corina Cernătescu, Claudia Cobzaru, Ramona Elena Tătaru-Fărnuș, Mihaela Aurelia Vizitiu, Gabriela Antoaneta Apostolescu, <i>Recent Advances in Anticorrosive Phosphate Pigments</i>, Buletinul Institutului Politehnic din Iași, Volumul 66, Numărul 3, Chimie Și Inginerie Chimică (2020). 2. D.Sibiescu, M.Vizitiu <i>Natural dye extraction from Pelargonium roseum plants using ultrasound method</i>, Buletinul Institutului Politehnic din Iași, Tomul 66(70) Fasc. 4, 31-38; Chimie și Inginerie Chimică; (2020); ISSN 0254-7104 3. Gabriela Antoaneta Apostolescu, Mihaela Aurelia Vizitiu, Corina Cernătescu, Claudia Cobzaru, Ramona Elena Tătaru-Fărnuș, Nicolae Apostolescu <i>Thermochromic Materials: Oxides With Applications In Intelligent Technologies</i>, , Buletinul Institutului Politehnic Din Iași, Volumul 67; Numărul 1; Secția Chimie Și Inginerie Chimică (2021) 4. Nicolae Apostolescu, Mihaela Aurelia Vizitiu, Corina Cernătescu, Ramona Elena Tătaru Fărnuș, Claudia Cobzaru, and Gabriela Antoaneta Apostolescu <i>Current Trends In The Recovery Of Precious Metals From Electrical And Electronic Waste</i>, *, Buletinul Institutului Politehnic Din Iași, Volumul 68, Numărul 1; Secția Chimie Și Inginerie Chimică (2022)

	Coordonari lucrări de cercetare pentru cercurile științifice: 5 Coordonare lucrări de cercetare / disertatii: 5	
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Întocmit,

Prof. univ. dr. ing. Vasilica Popescu