

**LISTA PUBLICAȚIILOR****TEZA DE DOCTORAT**

**Ionela Daniela FERȚU**, *Utilizarea durabilă a unor materiale naturale și deșeuri pentru decontaminarea componentelor de mediu.*

Domeniul – Ingineria Mediului, 2016.

Conducător științific Prof. emerit.dr.ing. Gavrilescu Maria, Universitatea Tehnică "Gheorghe Asachi" Iași

**Cărți publicate la edituri naționale**

1. **Ferțu I.D.**, Natural biosorbents - green solutions for reduction contaminants and protect public health, Editura Grapho Press, 2024, ISBN 978-606-8912-76-9, 107 pg 107

**Articole publicate in reviste indexate ISI**

1. **Ferțu I.D.**, Ciobanu A.A., Cara I.G., Motrescu I., Ahmad I., Nacu G., Bulgariu L., *Circular Approach of Using Soybean Biomass for the Removal of Toxic Metal Ions from Wastewater*, Water, 2024, Vol. 16 (24), pag.3663, DOI: 10.3390/w16243663, IF(2024)= 3.0  
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2. **Ferțu I.D.**, Bulgariu L., Gavrilescu M., *Sustainable use of some natural materials and waste for the decontamination of environmental components polluted with heavy metals*, Environmental Engineering and Management Journal (EEMJ), 2024, Vol. 23, Nr.7, pag.1543-1569, ISSN: 1582-9596, eISSN: 1843-3707, IF (2024) = 1,065, DOI: 10.30638/eej.2024.106  
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3. Asiminicesei D.M., **Ferțu I.D.**, Gavrilescu M., *Impact of heavy metal pollution in the environment on the metabolic profile of medicinal plants and their therapeutic potential*, Review, Plants, 2024, Vol. 13 (6), ISSN: 2223-7747, DOI:10.3390/plants13060913, WOS:001192891400001, IF(2024)=4.0,  
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4. **Ferțu I.D.**, Batîr-Marin D., Tudor M., *Etephon residue analysis in commonly used vegetable foods by a HPLC-PDA method*, Environmental Engineering and Management Journal (EEMJ), 2023, Vol. 22 (8), pag.1349, ISSN: 1582-9596, eISSN: 1843-3707, DOI: 10.30638/eemj.2023.112  
WOS: 001138547500006, IF (2023) = 0.9  
[http://www.eemj.icpm.tuiasi.ro/pdfs/vol22/no8/3\\_191\\_Fertu\\_23.pdf](http://www.eemj.icpm.tuiasi.ro/pdfs/vol22/no8/3_191_Fertu_23.pdf), Q4
5. **Ferțu I.D.**, Dragoi E.N., Bulgariu L., Curteanu S., Gavrilesco M., *Modeling the Biosorption Process of Heavy Metal Ions on Soybean Based Low-Cost Biosorbents Using Artificial Neural Networks*. Processes. 2022, Vol. 10 (3), pag. 603-628, eISSN 2227-9717  
DOI: 10.3390/pr10030603, WOS:000774456800001, IF (2022) = 3.5  
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6. **Ferțu I.D.**, Bulgariu L., Gavrilesco M., *Modeling and Optimization of Heavy Metals Biosorption by Low-Cost Sorbents Using Response Surface Methodology*. Processes. 2022, Vol. 10 (3), eISSN 2227-9717, DOI:10.3390/pr10030523, WOS: 000774386200001, IF(2022)=3.5, <https://doi.org/10.3390/pr10030523>, <https://www.mdpi.com/journal/processes>, <https://www.mdpi.com/2227-9717/10/3/523>, Q2
7. Vasilachi I.C., Asiminicesei D., **Ferțu I. D.**, Gavrilesco M., *Occurrence and Fate of Emerging Pollutants in water Environment and Options for Their Removal*, Water, vol.13 (2), Pag. 181- 215, 2021, eISSN: 2073-4441, DOI: 10.3390/w13020181, WOS: 000611771400001, IF(2022)=3,530 <https://doi.org/10.3390/w13020181>, <https://www.mdpi.com/2073-4441/13/2>, <https://www.mdpi.com/2073-4441/13/2/181>, Q2
8. Bulgariu L., **Ferțu I.D.**, Cara I.G., Gavrilesco M., *Efficacy of Alkaline-Treated SoyWaste Biomass for the Removal of Heavy-Metal Ions and Opportunities for Their Recovery*. Materials. 2021, Vol. 14 (23), 7413-7429, eISSN 1996-1944, DOI:10.3390/ma14237413, WOS: 000734767100001, IF (2021) = 3.748 <https://doi.org/10.3390/ma14237413>, <https://www.mdpi.com/1996-1944/14/23>, <https://www.mdpi.com/1388636>, Q2
9. Diaconu M., Pavel L.V., Hlihor R.M., Roșca M., **Ferțu I.D.**, Lenz M., Corvini P.X., Gavrilesco M., *Characterization of heavy metal toxicity in some plants and microorganisms – A preliminary approach for environmental bioremediation*. New Biotechnology. 2020, vol. 56, pag.130 – 139, ISSN: 1871-6784, eISSN : 1876-4347, DOI: 10.1016/j.nbt.2020.01.003, WOS: 000518105700017, IF (2020) = 5.079, <https://0h10avac5-y-https-doi-org.z.e-nformation.ro/10.1016/j.nbt.2020.01.003>, <https://www.sciencedirect.com/science/article/abs/pii/S1871678419300603>, Q1

10. Sobariu D.L., **Tudorache Ferțu I.D.**, Diaconu M., Pavel L.V., Hlihor R.M., Drăgoi E.N., Curteanu S., Lenz M., Corvini P.X., Gavrilescu M., *Rhizobacteria and Plant Symbiosis in Heavy Metal Uptake and Its Implications for Soil Bioremediation*. New Biotechnology. 2017, 39 (A), Pag. 125-134, ISSN: 1871-6784, DOI: 10.1016/j.nbt.2016.09.002, IF (2017) = 3,73, <https://doi.org/10.1016/j.nbt.2016.09.002>  
<https://www.sciencedirect.com/journal/new-biotechnology/special-issue/103J0ZBG78B>, Q1
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12. Hlihor R.M., Diaconu M., **Ferțu I.D.**, Chelaru C., Sandu I., Tavares T., Gavrilescu, M., *Bioremediation of Cr (VI) polluted wastewaters by sorption on heat inactivated Saccharomyces cerevisiae biomass*, International Journal of Environmental Research (IJER), 2013, Volum 7, Emisiune 3, Pag. 681-694, WOS: 000319952600007, ISSN: 1735-6865, eISSN: 2008-2304, <https://www.webofscience.com/wos/woscc/summary/96515f2a-58a6-41ac-94b7-28cac60211bb-0118932c0a/relevance/1>, IF (2013) = 1.818,
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14. **Tudorache Ferțu I.D.**, Gavrilescu M., *Application of natural zeolites as sorbents in the clean-up of aqueous streams*. Environmental Engineering and Management Journal (EEMJ), 2012, Vol.11 (4), pag. 867-878, ISSN: 1582-9596 eISSN: 1843-3707, DOI: 10.30638/eej.2012.110, IF (2012) = 1,117 [http://www.eemj.icpm.tuiasi.ro/pdfs/vol11/no4/20\\_Fertu\\_11.pdf](http://www.eemj.icpm.tuiasi.ro/pdfs/vol11/no4/20_Fertu_11.pdf), Category Quartile: Q4

#### Articole publicate în reviste indexate BDI

1. Lisa E., Tudor M., **Ferțu ID.**, *Food additives: role, regulation and health effects*, Animal & Food Sciences Journal Iasi, ISSN 2821-6644, vol. 82(6), 2024, pag. 71-75, [https://www.uaiasi.ro/firaa/Pdf/Pdf\\_Vol\\_82/E\\_Lisa.pdf](https://www.uaiasi.ro/firaa/Pdf/Pdf_Vol_82/E_Lisa.pdf)

2. Grigorescu C., Tudor M., **Ferțu I.D.**, *Management strategies regarding the quality of foods animal origin*, Animal & Food Sciences Journal Iasi, ISSN 2821-6644, Vol. 82(6), 2024, pag. 35-38, [https://www.uaiasi.ro/firaa/Pdf/Pdf\\_Vol\\_82/C\\_Grigorescu.pdf](https://www.uaiasi.ro/firaa/Pdf/Pdf_Vol_82/C_Grigorescu.pdf)
3. Manolache N., Stoleriu G., **Ferțu I.D.**, Lungu M., *The Role of Heredity in chronic venous disease*. Dermatologie. 2022, Vol. 67 (2), pag.29-32, ISSN 2559-6101, [www.srd.ro](http://www.srd.ro), [https://revistasrd.ro/includes/files/articles/5\\_en\\_452.pdf](https://revistasrd.ro/includes/files/articles/5_en_452.pdf)
4. Manolache N., **Ferțu I.D.**, *How and when chronic diseases affect chronic venous disease*. Annals of University Dunărea de Jos din Galați, Fascicula XVII Medicine. 2019,1, pag.35-45 ISSN: 1583-2074, [www.gup.ugal.ro](http://www.gup.ugal.ro)
5. Bulgariu L., **Tudorache Ferțu I.D.**, Gavrilescu M. *Sustainable use of biomass for cleaning-up aqueous effluents contaminated with heavy metals*. Annals of the Academy of Romanian Scientists. Series on Chemistry Sciences, 2014, 1(1), 5-18, ISSN: 2537 – 4761, eISSN: 2393 – 2902, [www.aosr.ro](http://www.aosr.ro), <https://aos.ro/editura/analeleaosr/annals-on-chemistry/archive/volume-1-no-1-2014>.

#### Articole publicate în reviste neindexate

1. **Ferțu I.D.**, Ștefan S., Tudor M., Ciubucă A., Grigorescu C., *Impact of Climate Dynamics on Vineyards in the South-Eastern Region of Galati County, Romania*, Environmental Analysis & Ecology Studies, 2024, 12, (3), pag.1427-1334, ISSN: 2578-0336, DOI: 10.31031/EAES.2024.12000786, IF (2023-2024)=1.496, [www.crimsonpublishers.com/eaes/](http://www.crimsonpublishers.com/eaes/)
2. Diaconu M., Pavel L.V., Hlihor R.M., Sobariu D.L., **Tudorache Ferțu I.D.**, Lenz M., Gavrilescu M., *Heavy metals tolerance of some microorganisms and plants: Consequences and potential applications to environmental bioremediation*. The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania (Poster), volumul 16(3) 509-512. <http://omicron.ch.tuiasi.ro/EEMJ/>
3. **Tudorache Ferțu I.D.**, Istrate B., Roșca M., Bulgariu L., Hlihor R.M., Gavrilescu M., *Removal of Pb(II) ions from aqueous media by biosorption onto soy biomass*. The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania (Poster), 16(3) 509-512. <http://omicron.ch.tuiasi.ro/EEMJ/>
4. **Daniela Ionela Tudorache Ferțu**, B. Istrate, L. Bulgariu, D. Bulgariu, M. Gavrilescu. *Valorisation of soy waste biomass as biosorbent for heavy metals removal from the environment*. The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania (Poster), 16(3) 509-512. <http://omicron.ch.tuiasi.ro/EEMJ/>

**Lucrări prezentate la conferințe indexate ISI/ Clarivate Analytics Proceedings sau IEEE Proceedings**

1. Tudor M., Stoica M., Grigorescu C., **Ferțu ID.**, *Antimicrobial investigation of polyphenol action present in forest fruits and red wine extracts*, European Horticulture Congress (EHC), 12-16 may 2024, Bucuresti, ISSN 0567-7572, eISSN 2406-6168, <https://ehc.usamv.ro/wp-content/uploads/2024/05/Program-S04-ver-10-May-13.pdf>, <https://www.ishs.org/acta-horticulturæ>
2. Vasilachi I.C., Tapciuc L., Chelaru G.M., Asiminicesei D.M., Rosca M., Cozma P., Comanita-Ungureanu E.D., Smaranda C., Hlihor R.M., **Ferțu I.D.**, Gavrilescu M., *Pesticide în mediu și indicatori de risc armonizanți*, Conferința Internațională de e-sănătate și bioinginerie 2020 (EHB), 2020, ISSN: 2575-5137, eISSN: 2575-5145, ISBN 978-1-7281-8803-4, DOI: 10.1109/EHB50910.2020.9280252, WOS: 000646194100121, IF (2020) = 1.065, <https://www.webofscience.com/wos/woscc/summary/639bb1f7-0611-4ca7-a2a6-531d5df85f6a-0118902c47/relevance/1>, Category Quartile: Q4

**Lucrări prezentate la conferințe indexate BDI**

1. Ștefan C.S., Grigorescu C., **Ferțu I.D.**, *The effects of neavy metal pollution on the metabolism of plants*, Lucări științifice seria horticultură, Iași, 2024, ISSN = 1454 – 7376, eISSN 2069 – 8275, 67 (1/2), pag. [https://www.uaiasi.ro/revista\\_horti/files/Nr1\\_2024/vol%2067\\_1\\_2024%20\(1\).pdf](https://www.uaiasi.ro/revista_horti/files/Nr1_2024/vol%2067_1_2024%20(1).pdf)
2. Topor G., Tudor M., **Ferțu ID.**, *Protection of biological diversity of medicinal plants*, Lucări științifice seria horticultură, Iași, 2024, ISSN = 1454 – 7376, eISSN 2069 – 8275, 67 (1/2), pag. [https://www.uaiasi.ro/revista\\_horti/files/Nr1\\_2024/vol%2067\\_1\\_2024%20\(1\).pdf](https://www.uaiasi.ro/revista_horti/files/Nr1_2024/vol%2067_1_2024%20(1).pdf)
3. Lisa E., Tudor M., **Ferțu ID.**, *Food additives: role, regulation and health effects*, Animal & Food Sciences Journal Iasi, ISSN 2821-6644, vol. 82(6), 2024, pag. 71-75, [https://www.uaiasi.ro/firaa/Pdf/Pdf\\_Vol\\_82/E\\_Lisa.pdf](https://www.uaiasi.ro/firaa/Pdf/Pdf_Vol_82/E_Lisa.pdf)
4. Grigorescu C., Tudor M., **Ferțu ID.**, *Management strategies regarding the quality of foods animal origin*, Animal & Food Sciences Journal Iasi, ISSN 2821-6644, Vol. 82(6), 2024, pag. 35-38, [https://www.uaiasi.ro/firaa/Pdf/Pdf\\_Vol\\_82/C\\_Grigorescu.pdf](https://www.uaiasi.ro/firaa/Pdf/Pdf_Vol_82/C_Grigorescu.pdf)
5. Vrânceanu T., Comăniță-Ungureanu E.D., Lazăr Coșbuc E., Cozma P., **Ferțu Tudorache I.D.**, Gavrilescu A.D., Gavrilescu M., *Sustainable alternatives for hazardous waste management*, Annals of the Academy of Romanian Scientists Online Edition Series on Physics and Chemistry Sciences, ISSN: 2559-1061 Volume 5, Number 2/2020, pag 93-108
6. **Ferțu I.D.**, Bulgariu L, Malutan T, Gavrilescu M. *Biosorbitive performances of soy waste biomass in environmental remediation processes*. The 10th International Conference Environmental Engineering and

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<http://www.eemj.icpm.tuiasi.ro/>; <http://www.eemj.eu>

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2. Ștefan S.C., Plătică-Voicu D.A., Tudor M., **Ferțu I.D.**, *Determination of total polyphenols concentration and antimicrobial activity of Lavandula Angustifolia extracts based on protic ionic liquid*, Conferința Națională de Analize Medico-Farmaceutice de Laborator: de la concepte teoretice la aplicații practice, Ed. II, Galați 3-5 octombrie 2023, pag.69-70, ISSN 3061-3736, ISBN 978-606-669416-2, <https://www.medfarmlab.ugal.ro/>.
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4. Ciovîrtă V., **Ferțu I.D.**, *Perspective ale utilizării biopesticidelor în soluționarea problemelor legate de siguranța alimentelor*, SCSS MEDUGAL, Galați, 17 mai 2024, ISSN: 2501-7594, ISSN-L: 2501-7594
5. Lupu M., **Ferțu I.D.**, *Potențialul toxicologic al micro și nano-plasticelor*, SCSS MEDUGAL, Galați, 17 mai 2024, ISSN: 2501-7594, ISSN-L: 2501-7594
6. Tudor M., Bafîr-Marin D., **Ferțu I.D.**, *Cercetarea acțiunii antimicrobiene a antocianilor prezenți în extractele de fructe de pădure și vinuri roșii*, Congresul Național cu participare internațională Galmed, Ediția a XIII-a Galați, 24-26 noiembrie 2023, pag. 143, ISSN: 537-4907, ISSN-L: 2537-4907, <https://www.galmed.ssmg.ro/>
7. Ciovîrtă V., **Ferțu I.D.**, *Influența biopesticidelor asupra sănătății umane*, Congresul Național cu participare internațională Galmed, Ediția a XIII-a Galați, 24-26 noiembrie 2023, pag. 150, ISSN: 537-4907, ISSN-L: 2537-4907, <https://www.galmed.ssmg.ro/>
8. Lupu M., **Ferțu I.D.**, *Micro și nano-plastice – impact asupra sănătății umane*, Congresul Național cu participare internațională Galmed, Ediția a XIII-a Galați, 24-26 noiembrie 2023, pag. 155, ISSN: 537-4907, ISSN-L: 2537-4907, <https://www.galmed.ssmg.ro/>
9. Manolache G., Tudor M., **Ferțu I.D.**, *ICP-MS o metodă investigativă de actualitate în laboratoarele toxicologice*, Conferința Națională de Analize Medico-Farmaceutice de Laborator: de la concepte teoretice la aplicații practice, Galați 6-8 octombrie 2023, pag.41-44, ISBN 978-606-669416-2,

<https://www.medfarmlab.ugal.ro/>

10. Tudor M., Dănilă G., Bucur A., **Ferțu I.D.**, Batîr-Marin D., *GC-MS și LC-MS metode investigative a intoxicațiilor determinate de compuși organofosforici în laboratoarele toxicologice*, Conferința Națională de Analize Medico-Farmaceutice de Laborator: de la concepte teoretice la aplicații practice, Galați 6-8 octombrie 2023, pag.166-168, ISBN 978-606-669416-2, <https://www.medfarmlab.ugal.ro/>
11. **Ferțu I.D.**, Bulgariu L., Gavrilescu M., *Efficient removal of heavy metal ions from aqueous media using alkaline treated soy waste biomass*, 10th International Conference on Environmental Engineering and Management – ICEEM10, 18-21 September 2019, Iași, Romania
12. **Ferțu I.D.**, Răvoiu A., Chiriac A., *Studiul clinic al consumului substanțelor de abuz*. A 17 a editie a Congresului Național de Farmacie, 26-29 septembrie 2018, Bucuresti, România (poster), 13:95-96. <https://archive.org/details/RezumateCongresulNationalFarmacie2018/page/n13/mode/2up>
13. **Ferțu I.D.**, Bulgariu L., Măluțan T., Gavrilescu M., *Biosorptive Performances of Soy Waste Biomass in Environmental Remediation Processes*, 4th International Conference on Chemical Engineering ICEE-2018, 31 October – 02 November 2018, Iași, Romania
14. Comanita D.E., Hlihor R.M., **Tudorache Ferțu I.D.**, Nacu G., Smaranda C., Puitel A.C., Gavrilescu D.A., Bulgariu L., Gavrilescu M., *Assessing biomass potential for environmental clean-up and sustainable energy*. 6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece (Poster),
15. Bulgariu L., Hlihor R.M., Comanita D.E., **Tudorache Ferțu I.D.**, Nacu G., Dragoi E.N., Curteanu S., Gavrilescu M., *Modelling and optimization of the removal of some relevant heavy metals ions from aqueous effluents by waste biomass*. 6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece (Poster)
16. Hlihor R.M., Diaconu M., **Tudorache Ferțu I.D.**, C. Chelaru, I. Sandu, T. Tavares, M. Gavrilescu. *Bioremediation of Cr(VI) Polluted Wastewaters by Heat Inactivated Saccharomyces cerevisiae Biomass*. International Journal of Environmental Research. 2013, 7(3), 581-594, ISSN 1735-6865, <https://www.sid.ir/paper/301087>

### Indice Web of Science – IWS

IWS (2025) = 10

<https://0h10qva6c-y-https-www-webofscience-com.z.e-nformation.ro/wos/author/record/AFL-7658-2022>

### Indice Scopus – IS

IS (2025) = 11

<https://0h109va76-y-https-www-scopus-com.z.e-nformation.ro/authid/detail.uri?authorId=55255174600>

**Indice Google Scholar – IGS**

IGS (2025) = 12

[https://scholar.google.com/citations?hl=ro&user=8gG9YboAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=ro&user=8gG9YboAAAAJ&view_op=list_works&sortby=pubdate)

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**Ș.L.dr. Ionela Daniela FERȚU**