

**Universitatea Națională de Știință și Tehnologie POLITEHNICA București**

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **Inginerie Chimică și Biochimică**

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Gradul didactic: **conferențiar**

## **L I S T A**

### **lucrărilor științifice în domeniul disciplinelor din postul didactic**

#### **A. Teza de doctorat**

Sandu (Jipa) I.M., Procese chimice și biochimice cu transfer prin interfața lichid-lichid; Universitatea Politehnica din București, 2009.

#### **B. Cărți și capitole în cărți publicate**

1. Parvulescu, O.C., Isopencu, G., Busuioc, C., Răducanu, C., Mocanu, A., Deleanu, I., Stoica-Guzun, A., Antimicrobial Textiles from Natural Resources, The Textile Institute Book Series, 2021, Pages 513-556, Woodhead Publishing, DOI: 10.1016/B978-0-12-821485-5.00013-5.
2. Grosu, E., Antoniac, A., Antoniac, I., Deleanu I.M., Robu, A., Perspective în sistemele terapeutice transdermice, în Materiale utilizate în medicină – aspecte interdisciplinare, Ed. Printech, 2021, ISBN 978-606-23-1306-7.
3. Stoica, A., Stroescu, M., Jipa, I.M., Dobre, T., Proiectarea tehnologică a coloanelor de rectificare cu talere. Amestecuri binare, Ed. Printech, 2010, ISBN 978-606-521-513-9, 290 pag.

#### **C. Lucrări indexate ISI/BDI publicate**

1. Dobre, T., Isopencu, G.O., Ahmed, S.B., *Deleanu I.M.*, Heavy Metal Pollution and Solutions for Its Control: General Aspects with a Focus on Cobalt Removal and Recovery from Aqueous Systems, *ChemEngineering* 8(6) 118 (2024), eISSN: 2305-7084, <https://doi.org/10.3390/chemengineering8060118>, WOS:001383735300001.
2. *Deleanu, I.M.*, Grosu, E., Ficăi, A., Ditu, L.M., Motelica, L., Oprea, O.-C., Gradisteanu Pircalabioru, G., Sonmez, M., Busuioc, C., Ciocoiu, R., Antoniac, V.A., New Antimicrobial Materials Based on Plasticized Polyvinyl Chloride for Urinary Catheters: Preparation and Testing. *Polymers* 16(21) 3028 (2024), ISSN: 2073-4360, <https://doi.org/10.3390/polym16213028>, WOS:001351846700001.
3. *Deleanu, I.M.*, Busuioc, C., Deleanu, M., Stoica-Guzun, A., Rotaru, M., Ștefan, V.A., Isopencu, G., Antimicrobial Carboxymethyl Cellulose-Bacterial Cellulose Composites Loaded with Green Synthesized ZnO and Ag Nanoparticles for Food Packaging, *International Journal of Molecular Sciences* 25(23) 12890 (2024), <https://doi.org/10.3390/ijms252312890>. WOS:001376405600001.
4. Khikani, M., Isopencu, G.-O., *Deleanu, I.-M.*, Jinga, S.-I., Busuioc, C. Green Synthesis of Nanoparticle-Loaded Bacterial Cellulose Membranes with Antibacterial Properties. *Journal of Composites Science* 8(11) 475 (2024), ISSN: 2504-477X, <https://doi.org/10.3390/jcs8110475>, WOS:001365335900001.
5. Mitroi, R., Covaliu-Mierla, C.I., Enascuta, C.E., Pshenovschi, G., *Deleanu, I.*, VALUATION OF THE ENERGY POTENTIAL OF AGROZOOOTEHNIC WASTE, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 69 (4) (2024), 159-170, ISSN 1224-7154, DOI10.24193/subbchem.2024.4.11, WOS:001404529500011.

6. Busuioc, C., Isopencu, G.O., *Deleanu, I.M.*, Bacterial Cellulose–Polyvinyl Alcohol Based Complex Composites for Controlled Drug Release, *Applied Sciences-Basel* 13 (2) (2023) 1015, eISSN: 2076-3417, DOI: 10.3390/app13021015, WOS:000914322500001.
7. Isopencu, G.O., Covaliu-Mierla, C.I., *Deleanu, I.M.*, From Plants to Wound Dressing and Transdermal Delivery of Bioactive Compounds, *PLANTS-BASEL* 12 (14) (2023) 2661, eISSN: 2223-7747, DOI: 10.3390/plants12142661, WOS:001036515900001.
8. Ilie, M.C., Maior, I., Raducanu, C.E., *Deleanu, I.M.*, Dobre, T., Parvulescu. O.C., Experimental Investigation and Modeling of Film Flow Corrosion, *Metals* 13 (8) (2023) 1425, eISSN: 2075-4701, DOI: 10.3390/met13081425, WOS:001055983400001.
9. Isopencu, G., *Deleanu, I.*, Busuioc, C., Oprea, O., Surdu, V.-A., Bacalum, M., Stoica, R., Stoica-Guzun, A., Bacterial Cellulose-Carboxymethylcellulose Composite Loaded with Turmeric Extract for Antimicrobial Wound Dressing Applications, *International Journal of Molecular Sciences* 24 (2) (2023) 1719, eISSN: 1422-0067, DOI: 10.3390/ijms24021719, WOS:000915281200001.
10. Matei, P.L., *Deleanu, I.*, Brezoiu, A.M., Chira, N.A., Busuioc, C., Isopencu, G., Cîlțea-Udrescu, M., Alexandrescu, E., Stoica-Guzun, A., Ultrasound-Assisted Extraction of Blackberry Seed Oil: Optimization and Oil Characterization, *Molecules* 28 (6) (2023), 2486, eISSN: 1420-3049; DOI: 10.3390/molecules28062486, WOS:000957665900001.
11. Ilie, M.C., Chiș, T.V., Maior, I., Raducanu, C.E., *Deleanu, I.M.*, Dobre, T., Parvulescu. O.C., Experimental Investigation and Modeling: Considerations of Simultaneous Surface Steel Droplets' Evaporation and Corrosion, *Metals* 13 (10) (2023) 1733, eISSN: 2075-4701, DOI: 10.3390/met13101733, WOS:001090032200001.
12. Isopencu, G.O., Stoica-Guzun, A., Busuioc, C., Stroescu, M., *Deleanu, I.M.*, Development of antioxidant and antimicrobial edible coatings incorporating bacterial cellulose, pectin, and blackberry pomace, *CARBOHYDRATE POLYMER TECHNOLOGIES AND APPLICATIONS*, 2 (2021), 100057, ISSN: 2666-8939, DOI: 10.1016/j.carpta.2021.100057, WOS:000821573700037.
13. Ahmed, S.B., Dobre, T., Kamar, F.H., Mocanu, A., *Deleanu, I.M.*, Full factorial design and dynamic modelling of silent and ultrasound-assisted lead and cadmium removal by porous biosorbent, *Scientific Reports*, 12 (1) (2022) 6948, ISSN: 2045-2322, DOI: 10.1038/s41598-022-10792-x, WOS:000790978000021.
14. Ahmed, S.B., Dobre, T., Kamar, F.H., *Deleanu, I.M.*, Biosorption of lead and cadmium onto hazelnuts shells in a fixed-bed column, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science*, 84 (3) (2022), ISSN: 1454-2331, WOS:000860369300001.
15. Busuioc, C., Alecu, A.E., Costea, C.C., Beregoi, M., Bacalum, M., Raileanu, M., Jinga, S.-I., *Deleanu, I.-M.*, Composite Fibers Based on Polycaprolactone and Calcium Magnesium Silicate Powders for Tissue Engineering Applications, *Polymers* 14 (21) (2022) 4611, eISSN: 2073-4360, DOI: 10.3390/polym14214611, WOS:000882815700001.
16. Isopencu, G.O., Mocanu, A., *Deleanu, I.M.*, A Brief Review of Photocatalytic Reactors Used for Persistent Pesticides Degradation, *ChemEngineering* 6 (6) (2022) 89, eISSN: 2305-7084, DOI: 10.3390/chemengineering6060089, WOS:000900677100001.
17. Gheorghita, D., Grosu, E., Robu, A., Ditu, L.M., *Deleanu, I.M.*, Gradisteanu Pircalabioru, G., Raiciu, A.D., Bită, A.I., Antoniac, A., Antoniac, V.I., Essential Oils as Antimicrobial Active Substances in Wound Dressings, *Materials* 15 (19) (2022) 6923, ISSN: 1996-1944, <https://doi.org/10.3390/ma15196923>, WOS:000866914900001.
18. Busuioc, C., Isopencu, G., Banciu, A., Banciu, D.D., Oprea, O., Mocanu, A., *Deleanu, I.*, Zaulet, M., Popescu, L., Tanasuica, R., Vasilescu, M., Stoica-Guzun, A., Bacterial Cellulose Hybrid Composites with Calcium Phosphate for Bone Tissue Regeneration, *International Journal of Molecular Sciences* 23 (24) (2022) 16180, eISSN: 1422-0067; DOI: 10.3390/ijms232416180, WOS:000902535300001.

19. Ahmed, S. Bdaiwi, Stoica-Guzun, A., Kamar, F. H., Dobre, T., Gudovan, D., Busuioc, C., *Jipa, I.M.*, Ultrasound enhanced removal of lead from wastewater by hazelnut shell: an experimental design methodology, *International Journal of Environmental Science and Technology*, 16 (3) (2019), 1249-1260, ISSN: 1735-1472, DOI: 10.1007/s13762-018-1782-z. WOS:000460696700003.
20. Isopencu, G., Marfa, M., *Jipa, I.*, Stroescu, M., Stoica-Guzun, A., Chira, N., Popescu, M., Optimisation of the Oil Extraction from *Nigella sativa* Seeds Using Response Surface Methodology, *Revista de Chimie*, 68 (2) (2017), 331-336, ISSN 0034-7752. WOS:000397043100029.
21. Dobre, T., Pârvulescu, O.C., Stoica-Guzun, A., Stroescu, M., *Jipa, I.*, Al Janabi, A.A.A., Heat and mass transfer in fixed bed drying of non-deformable porous particles, *International Journal of Heat and Mass Transfer*, 103 (1) (2016), 478-485; ISSN: 00179310; DOI: 10.1016/j.ijheatmasstransfer.2016.07.079, WOS:000384777800045.
22. Stroescu, M., Stoica-Guzun, A., *Jipa, I.M.*, Vanillin release from poly(vinyl alcohol)-bacterial cellulose mono and multilayer films, *Journal of Food Engineering*, 114 (2) (2013) 153-157; ISSN: 0260-8774; doi:10.1016/j.jfoodeng.2012.08.023. WOS 000311657900002.
23. Stoica-Guzun, A., Stroescu, M., *Jipa, I.*, Dobre, L., Zaharescu, T., Effect of  $\gamma$  irradiation on poly (vinyl alcohol) and bacterial cellulose composites used as packaging materials, *Radiation Physics and Chemistry*, 84 (2013), 200-204; ISSN: 0969-806X; doi: 10.1016/j.radphyschem.2012.06.017. WOS 000316095100040.
24. Stroescu, M., Stoica-Guzun, A., Ghergu, S., Chira, N., *Jipa, I.*, Optimization of fatty acids extraction from *Portulca oleracea* seed using response surface methodology, *Industrial Crops and Products*, 43 (2013), 405-411; ISSN: 0926-6690; doi: 10.1016/j.indcrop.2012.07.051. WOS 000311865000062.
25. Stoica-Guzun, A., Stroescu, M., Jinga, S.I., *Jipa, I.M.*, Dobre, T., Microwave assisted synthesis of bacterial cellulose-calcium carbonate composites, *Industrial Crops and Products*, 50 (2013), 414-422; ISSN: 0926-6690; doi: 10.1016/j.indcrop.2013.07.063. WOS:000326903600055.
26. *Jipa, I.M.*, Dobre, L., Stroescu, M., Stoica-Guzun, A., Jinga, S., Dobre, T., Preparation and characterization of bacterial cellulose-poly(vinyl alcohol) films with antimicrobial properties, *Materials Letters*, 66 (1) (2012), 125–127; ISSN: 0167-577X; doi: 10.1016/j.matlet.2011.08.047. WOS 000297660300037.
27. *Jipa, I.M.*, Stoica, A., Stroescu, M., Dobre, L.M., Dobre, T., Jinga, S., Tardei, C., Potassium sorbate release from poly(vinyl alcohol)-bacterial cellulose films, *Chemical Papers*, 66 (2) (2012), 138-143, ISSN: 0366-6352, doi: 10.2478/s11696-011-0068-4. WOS:000297363800008.
28. *Jipa, I.M.*, Stroescu, M., Stoica-Guzun, A., Dobre, T., Jinga, S., Zaharescu, T., Effect of gamma irradiation on biopolymer composite films of poly(vinyl alcohol) and bacterial cellulose, *Nuclear Instruments and Methods in Physical Research B*, 278 (2012), 82-87; ISSN: 0168-583X, doi:10.1016/j.nimb.2012.02.024. WOS 000303097500015.
29. *Jipa, I.M.*, Stoica-Guzun, A., Stroescu, M., Controlled release of sorbic acid from bacterial cellulose based mono and multilayer antimicrobial films, *LWT-Food Science and Technology*, 47(2) (2012), 400-406; ISSN: 0023-6438; doi:10.1016/j.lwt.2012.01.039. WOS 000302852400026.
30. Dobre, L., *Jipa, I.M.*, Stoica, A., Stroescu, M., Dobre, T., Ferdes, M., Ciumpiliac, S., Modeling of Sorbic Acid Diffusion through Bacterial Cellulose Based Antimicrobial Films, *Chemical Papers*, 66 (2) (2012), 144-151, ISSN: 0366-6352, doi: 10.2478/s11696-011-0086-2. WOS:000297363800009.
31. Csaba Zoltán Kibédi-Szabó, Stroescu, M., Anicuta Stoica-Guzun, Sorin Ion Jinga, Szabolcs Szilveszter, *Jipa, I.*, Tanase Dobre, Biodegradation Behavior of Composite Films with Poly (Vinyl Alcohol) Matrix, *Journal of Polymers and the Environment*, 20 (2), (2012), 422-430. ISSN: 1566-2543; doi: 10.1007/s10924-011-0391-4. WOS: 000304147400019.

32. Maria, G., Ene, M.D., *Jipa, I.*, Modelling enzymatic oxidation of D-glucose with pyranose 2-oxidase in the presence of catalase, *Journal of Molecular Catalysis B: Enzymatic*, 74 (3-4) (2012), 209-218, ISSN: 1381-1177, doi: 10.1016/j.molcatb.2011.10.007. WOS:000300036000010.
33. Stoica-Guzun, A., Stroescu, M., Jinga, S., *Jipa, I.*, Dobre, T., Dobre, L., Ultrasound influence upon calcium carbonate precipitation on bacterial cellulose membranes, *Ultrasonics Sonochemistry*, 19 (4) (2012), 909-915; ISSN: 1350-4177; doi: 10.1016/j.ultsonch.2011.12.002. WOS 000302044000030.
34. Stroescu, M. , Stoica-Guzun, A., Jinga, S. , Dobre, T., *Jipa, I.M.*, Dobre, L.M., Influence of sodium dodecyl sulfate and cetyl trimethylammonium bromide upon calcium carbonate precipitation on bacterial cellulose, *Korean Journal of Chemical Engineering*, 29 (9) (2012), 1216-1223; ISSN: 0256-1115, doi: 10.1007/s11814-011-0290-3. WOS:000308260100016.
35. Ene, M.D., *Jipa, I.*, Maria, G., Stoica-Guzun, A., Stroescu, M., Quick procedure to evaluate the oxygen mass transfer resistance in aerated laboratory-scale bioreactors, *Revista de Chimie*, 62 (2) (2011), 227-232, ISSN 0034-7752. WOS:000288838800022.
36. Stoica-Guzun, A., Jecu, L., Gheorghe, A., Raut, I., Stroescu, M., Ghiurea, M., Danila, M., *Jipa, I.*, Fruth, V., Biodegradation of Poly(vinyl alcohol) and Bacterial Cellulose Composites by *Aspergillus niger*, *Journal of Polymers and the Environment*, 19 (1) (2011), 69-79; ISSN: 1566-2543; doi: 10.1007/s10924-010-0257-1. WOS:000289801700007.
37. Dobre, T., Parvulescu, O.C., Calota, L., *Jipa, I.*, Modelling of fixed bed multicomponent ion exchange, *Revista de Chimie*, 61 (2) (2010), 213-217, ISSN 0034-7752. WOS:000276216200020
38. Dobre, L., Stoica, A., Stroescu, M., Jinga, S., Ciumpiliac, S., *Jipa, I.M.*, Parvulescu, O., Dobre, T., Antimicrobial packaging material based on bacterial cellulose membranes, *Proceedings of 19th International Congress of Chemical and Process Engineering*, 2010, Praga, vol. 5, p. 314, ISBN 978-80-02-02210-7.
39. *Jipa, I.*, Dobre, T., Stroescu, M., Stoica, A., Acetic acid extraction from fermentation broth: experimental and modelling studies, *Revista de Chimie*, 60 (10) (2009), 1084-1089, ISSN 0034-7752. WOS:000272273600019.
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#### **D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**

##### **- Reviste**

1. *Deleanu, I.M.*, Dobre, T., Bdaiwi Ahmed, S., HEAVY METALS REMOVAL FROM SOIL AND AIR – A BRIEF REVIEW, *Bulletin of Romanian Chemical Engineering Society* 10 (1) (2023), 38-49 ISSN 2360-4697.
2. Petraș, L., Koncsag, C., Pârvulescu, O., *Deleanu, I.*, Răducanu, C., Dobre, T., A SIMPLE MODEL FOR GASOLINE HYDROFINING, *Bulletin of Romanian Chemical Engineering Society* 9 (2) (2022), 134-139; ISSN 2360-4697.
3. Dobre, T., Stroescu, M., Stoica-Guzun, A, *Jipa, I.M.*, LIQUID-LIQUID EXTRACTION COUPLED WITH SOLVENT RECYCLING BY DISTILLATION–MODELLING AND SCALE-UP OF THE CONTINUOUS PROCESS, *Bulletin of Romanian Chemical Engineering Society* 5 (1) (2018), 49-57; ISSN 2360-4697.

#### **E. Brevete obținute în întreaga activitate**

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