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Gradul didactic: sef lucrari

Instituția unde este titular: Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Chimica si Biotehnologii

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Procedee de iradiere utilizate la tratarea/decontaminarea efluentilor lichizi care contin bifenili policlorurati” Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor, 2011

B. Cărți si capitole în cărți publicate în ultimii 10 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

[1] Ioan Calinescu; Timothy J. Mason; Daniela Ghimpeteanu; M. Vinatoru; Adrian Trifan*, "A simple new approach for mapping an ultrasonic tank for sonochemistry", *Ultrasonics sonochemistry*, Elsevier BV, 106940, 2024, WOS:001250318800001, **Q1**

[2] Ioan Calinescu; Oana Cristina Pârvulescu; Grigore Psenovschi; Petre Chipurici; Adrian Trifan; Adina I. Gavrilă; Anamaria Vartolomei; M. Vinatoru "Ultrasound-Assisted Alkaline Pretreatment of Biomass to Enhance the Extraction Yield of Valuable Chemicals", *Agronomy*, 14(5), MDPI, pg. 903, 2024, WOS:001233105800001, **Q1**

[3] Ioan, Calinescu; Grigore, Psenovschi; Mihaela, Cojocaru; Ciprian Gabriel, Chisega-Negrila; Carmen, Albulescu; Mihai Adrian, Brebu; Adrian, Trifan; Nicoleta Daniela, Ignat; Petre, Chipurici "Catalytic Pyrolysis of Low-Density Polyethylene Waste", *Sustainability*, 16 (6), MDPI AG, pg. 6788, 2024, WOS:001307534200001, **Q1**

[4] A. Vintila, A. Trifan, I. Calinescu, Lower olefins synthesis in Fischer–Tropsch process using supported iron-catalysts, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, ISSN 14542331, 84 (3), p. 3-14, 2022, WOS:

[5] A. Diacon, E. Rusen, A. Trifan, R. Somoghi, O. Tutunaru, G. Craciun, C. Busuioc and G. Voicu - Preparation of metal and metal oxide doped silica hollow spheres and the evaluation of their catalytic performance, *Colloid and Polymer Science*, ISSN 0303-402X, 298 (10), p. 1401-1410, 2020, WOS:000561723700002.

- [6] A. M. Brezoiu, C. Matei, M. Deaconu, A. M. Stanciuc, A. Trifan, A. Gaspar-Pintiliescu and D. Berger - Polyphenols extract from grape pomace. Characterization and valorisation through encapsulation into mesoporous silica-type matrices, *Food and Chemical Toxicology*, ISSN 0278-6915,133 11, 2019, WOS:000491684000050.
- [7] I. Asofiei, I. Calinescu, A. Trifan and A. I. Gavrila - A Semi-Continuous Process For Polyphenols Extraction From Sea Buckthorn Leaves, *Scientific reports*, ISSN 2045-2322,9 7, 2019, WOS:000481590200085.
- [8] A. Racoti, A. J. Buttriss, E. Binner, C. Dodds, A. Trifan and I. Calinescu - Microwave assisted hydro-distillation of essential oils from fresh ginger root (*Zingiber officinale* Roscoe), *Journal of Essential Oil Research*, ISSN 1041-2905,29 (6),p. 471-480, 2017, WOS:000413854600006.
- [9] A. I. Gavrila, I. Asofiei, A. Trifan, P. Chipurici and E. Rusen - Microwave Assisted Synthesis of 5-hydroxymethylfurfural Using Mild Reaction Conditions, *Revista De Chimie*, ISSN 0034-7752,68 (3),p. 435-438, 2017, WOS:000400731900003.
- [10] A. M. Galan, J. Calinescu, A. Trifan, C. Winkworth-Smith, M. Calvo-Carrascal, C. Dodds and E. Binner - New insights into the role of selective and volumetric heating during microwave extraction: Investigation of the extraction of polyphenolic compounds from sea buckthorn leaves using microwave-assisted extraction and conventional solvent extraction, *Chemical Engineering and Processing-Process Intensification*, ISSN 0255-2701,116 29-39, 2017, WOS:000400529800004.
- [11] I. Calinescu, V. Lavric, I. Asofiei, A. I. Gavrila, A. Trifan, D. Ighigeanu, D. Martin and C. Matei - Microwave assisted extraction of polyphenols using a coaxial antenna and a cooling system, *Chemical Engineering and Processing-Process Intensification*, ISSN 0255-2701,122 373-379, 2017, WOS:000418211800036.
- [12] I. Calinescu, I. Asofiei, A. I. Gavrila, A. Trifan, D. Ighigeanu, D. Martin, C. Matei and M. Buleandra - Integrating Microwave-Assisted Extraction of Essential Oils and Polyphenols from Rosemary and Thyme Leaves, *Chemical Engineering Communications*, ISSN 0098-6445,204 (8),p. 965-973, 2017, WOS:000409168800016.
- [13] I. Asofiei, I. Calinescu, A. Trifan, I. G. David and A. I. Gavrila - Microwave-Assisted Batch Extraction of Polyphenols from Sea Buckthorn Leaves, *Chemical Engineering Communications*, ISSN 0098-6445,203 (12),p. 1547-1553, 2016, WOS:000387245100003.

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Semnătura: