

A N E X A 4 . 1

Nume Prenume: Trifan Adrian

Gradul didactic: Șef lucrări

Instituția unde este titular: Universitatea POLITEHNICA din București

Facultatea: Facultatea de Inginerie Chimică și Biotehnologii

Departamentul: Bioresurse și Știința Polimerilor

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] 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.

[2] 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.

[3] I. Asofiei, I. Calinescu, A. Trifan and A. I. Gavrilă - A Semi-Continuous Process For Polyphenols Extraction From Sea Buckthorn Leaves, Scientific reports, ISSN 2045-2322,9 7, 2019, WOS:000481590200085.

[4] A. Racoti, A. J. Buttress, 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.

- [5] A. I. Gavrilă, 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.
- [6] 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.
- [7] I. Calinescu, V. Lavric, I. Asofiei, A. I. Gavrilă, 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.
- [8] I. Calinescu, I. Asofiei, A. I. Gavrilă, 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.
- [9] I. Asofiei, I. Calinescu, A. Trifan, I. G. David and A. I. Gavrilă - Microwave-Assisted Batch Extraction of Polyphenols from Sea Buckthorn Leaves, *Chemical Engineering Communications*, ISSN 0098-6445,203 (12),p. 1547-1553, 2016, WOS:000387245100003.
- [10] E. Sarbu, I. Calinescu and A. Trifan - Regeneration of Weak and Medium Absorbing Molecular Sieves (3 angstrom vs 4 angstrom) under Microwave Exposure, *Revista De Chimie*, ISSN 0034-7752,65 (7),p. 762-767, 2014, WOS:000345545600005.
- [11] I. Calinescu, D. Martin, D. Ighigeanu, A. I. Gavrilă, A. Trifan, M. Patrascu, C. Munteanu, A. Diacon, E. Manaila and G. Craciun - Nanoparticles synthesis by electron beam radiolysis, *Central European Journal of Chemistry*, ISSN 1895-1066,12 (7),p. 774-781, 2014, WOS:000335552200006.
- [12] I. Calinescu, P. Chipurici, E. Alexandrescu and A. Trifan - *Saccharomyces cerevisiae* yeast immobilized on marrow stem sunflower and polyacrylamide hydrogels, *Central European Journal of Chemistry*, ISSN 1895-1066,12 (8),p. 851-857, 2014, WOS:000335552400005.
- [13] I. Calinescu, E. Sarbu and A. Trifan - Regeneration of 3 angstrom Molecular Sieves, Conventional vs. Microwave Heating, *Revista De Chimie*, ISSN 0034-7752,64 (10),p. 1146-1150, 2013, WOS:000327577600018.

[14] I. Calinescu, P. Chipurici, A. Trifan, E. Alexandrescu, R. Dima and C. Teiu - Saccharomyces Cerevisiae Immobilization in Polyacrylamide Cryogel - activation and Testing in Continuous Reactor, Revista De Chimie, ISSN 0034-7752,64 (1),p. 38-44, 2013, WOS:000315934900007.

[15] I. Calinescu, T. Corina, C. Petre, T. Adrian, A. Elvira, A. Ionescu and R. Dima - Saccharomyces cerevisiae immobilization in polyacrylamide hydrogel obtained at low temperature, Romanian Biotechnological Letters, ISSN 1224-5984,17 (5),p. 7628-7638, 2012, WOS:000310650400010.

**D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți
(neindexate)**

- Selecție cu maximum 20 lucrări în volume de conferințe

- 1) Calinescu, I., Martin, D., Ighigeanu, D., Toma M., Trifan, A., *Use of fine water droplets in electron beam treatment of flue gases*, 10th International Conference on Electron Beam Technologies, 1-4 June 2012, Varna, Bulgaria, publicat in Elektrotehnica & Electronica, 47(5-6), 2012, p. 249-255, ISSN 0861-4717
- 2) I.Calinescu, D.Martin, D.Ighigeanu, A.Gavrila, A.Trifan, M.Patrascu, *Nanoparticle synthesis by electron beam radiolysis*, 10-th International Conference on Electron Beam Technologies”, 1-4 June 2012, Varna, Bulgaria, publicat in Elektrotehnica & Electronica 47(5-6), 2012, p. 241-248, ISSN 0861-4717

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