

Ioan I Calinescu

List of Publications by Year in descending order

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57
papers

1,110
citations

567281

15
h-index

414414

32
g-index

60
all docs

60
docs citations

60
times ranked

1579
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonically assisted extraction (UAE) and microwave assisted extraction (MAE) of functional compounds from plant materials. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 97, 159-178.	11.4	426
2	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. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 116, 29-39.	3.6	60
3	Preparation of polyelectrolytes for wastewater treatment. <i>Journal of Hazardous Materials</i> , 2004, 106, 27-37.	12.4	58
4	SO ₂ and NO _x removal by electron beam and electrical discharge induced non-thermal plasmas. <i>Vacuum</i> , 2005, 77, 493-500.	3.5	49
5	Design of Antimicrobial Membrane Based on Polymer Colloids/Multiwall Carbon Nanotubes Hybrid Material with Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17384-17393.	8.0	46
6	Ultrasonic, hydrodynamic and microwave biodiesel synthesis – A comparative study for continuous process. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 38-47.	8.2	45
7	Emission control of SO ₂ and NO _x by irradiation methods. <i>Journal of Hazardous Materials</i> , 2003, 97, 145-158.	12.4	41
8	Microwave-Assisted Batch Extraction of Polyphenols from Sea Buckthorn Leaves. <i>Chemical Engineering Communications</i> , 2016, 203, 1547-1553.	2.6	31
9	E-Beam SO ₂ and NO _x removal from flue gases in the presence of fine water droplets. <i>Radiation Physics and Chemistry</i> , 2013, 85, 130-138.	2.8	28
10	Polyphenols in <i>Coreopsis tinctoria</i> Nutt. fruits and the plant extracts antioxidant capacity evaluation. <i>Open Chemistry</i> , 2014, 12, 858-867.	1.9	24
11	Silver Nanoparticles Influence on Photocatalytic Activity of Hybrid Materials Based on TiO ₂ /P25. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	2.7	22
12	Microwave assisted extraction of essential oils from enzymatically pretreated lavender (<i>Lavandula</i>)	1.9	19
13	A new reactor for process intensification involving the simultaneous application of adjustable ultrasound and microwave radiation. <i>Ultrasonics Sonochemistry</i> , 2021, 77, 105701.	8.2	19
14	Integrating Microwave-Assisted Extraction of Essential Oils and Polyphenols from Rosemary and Thyme Leaves. <i>Chemical Engineering Communications</i> , 2017, 204, 965-973.	2.6	18
15	Combined Microwave and Accelerated Electron Beam Irradiation Facilities for Applied Physics and Chemistry. <i>IEEE Transactions on Industry Applications</i> , 2004, 40, 41-52.	4.9	16
16	Microwave assisted extraction of polyphenols using a coaxial antenna and a cooling system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 373-379.	3.6	16
17	Ultrasound assisted preparation of calcium alginate beads to improve absorption of Pb ²⁺ from water. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 105191.	8.2	16
18	Microwave assisted hydro-distillation of essential oils from fresh ginger root (<i>Zingiber</i>)	2.7	14

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19	A new hybrid technique for the volatile organic compounds removal by combined use of electron beams, microwaves and catalysts. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2524-2528.	1.4	11
20	Microwave-enhanced dechlorination of chlorobenzene. <i>Research on Chemical Intermediates</i> , 2003, 29, 71-81.	2.7	10
21	Fatty Acid Ethyl Esters (FAEE): A New, Green and Renewable Solvent for the Extraction of Carotenoids from Tomato Waste Products. <i>Molecules</i> , 2021, 26, 4388.	3.8	10
22	A parameter study of ultrasound assisted enzymatic esterification. <i>Scientific Reports</i> , 2022, 12, 1421.	3.3	10
23	Polymer colloids and silver nanoparticles hybrid materials. <i>Colloid and Polymer Science</i> , 2012, 290, 193-201.	2.1	9
24	Evaluation of Amperometric Dot Microsensors for the Analysis of Serotonin in Urine Samples. <i>Journal of the Electrochemical Society</i> , 2014, 161, B49-B54.	2.9	9
25	Graphene Based Dot Microsensors Used for the Screening of Urine for Adenine, Guanine and Epinephrine. <i>Journal of the Electrochemical Society</i> , 2014, 161, B3014-B3022.	2.9	9
26	A Semi-Continuous Process For Polyphenols Extraction From Sea Buckthorn Leaves. <i>Scientific Reports</i> , 2019, 9, 12044.	3.3	9
27	Nanoparticles synthesis by electron beam radiolysis. <i>Open Chemistry</i> , 2014, 12, 774-781.	1.9	8
28	Combined Electron Beam and Microwave Treatment for Flue Gas Purification. <i>Materials and Manufacturing Processes</i> , 1999, 14, 365-382.	4.7	7
29	Highly Efficient Deacidification Process for Camelina sativa Crude Oil by Molecular Distillation. <i>Sustainability</i> , 2021, 13, 2818.	3.2	7
30	Alcoholic fermentation in the presence of microwaves. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 126, 16-22.	3.6	6
31	A photochemical approach designed to improve the coating of nanoscale silver films onto food plastic wrappings intended to control bacterial hazards. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	5
32	Epoxy Coatings Containing Modified Graphene for Electromagnetic Shielding. <i>Polymers</i> , 2022, 14, 2508.	4.5	5
33	Chemical Composition of the Aerial Part and Fruits of <i>Coreopsis tinctoria</i> . <i>Chemistry of Natural Compounds</i> , 2015, 51, 571-572.	0.8	4
34	A reactor designed for the ultrasonic stimulation of enzymatic esterification. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 32-38.	8.2	4
35	Optimization of Triterpene Saponins Mixture with Antiproliferative Activity. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5160.	2.5	4
36	Preliminary Study on Light-Activated Antimicrobial Agents as Photocatalytic Method for Protection of Surfaces with Increased Risk of Infections. <i>Materials</i> , 2021, 14, 5307.	2.9	4

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37	Development of a New Method for Determination of the Oil Content from Microalgae Lipid Fraction. <i>Revista De Chimie (discontinued)</i> , 2017, 68, 671-674.	0.4	4
38	Hybrid Technology with Microwaves, Electron Beams and Catalysts for VOCs Removals. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2008, 43, 4-11.	0.8	3
39	Intensification of the Enzymatic Esterification Process by Ultrasounds. <i>Revista De Chimie (discontinued)</i> , 2019, 70, 41-44.	0.4	3
40	Microwave Heating in the Hydrogen Peroxide Oxidation of Benzene on Zeolite Catalysts. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2000, 35, 86-91.	0.8	2
41	Magnetic silica particles functionalized with guanidine derivatives for microwave-assisted transesterification of waste oil. <i>Scientific Reports</i> , 2021, 11, 17518.	3.3	2
42	Microwave Assisted Fischer - Tropsch Synthesis at a Atmospheric Pressure. <i>Revista De Chimie (discontinued)</i> , 2017, 68, 1040-1043.	0.4	2
43	Ultrasonic or Microwave Cascade Treatment of Medicinal Plant Waste. <i>Sustainability</i> , 2021, 13, 12849.	3.2	2
44	<i>Saccharomyces cerevisiae</i> yeast immobilized on marrow stem sunflower and polyacrylamide hydrogels. <i>Open Chemistry</i> , 2014, 12, 851-857.	1.9	1
45	Utilization of Dielectric Properties Assessment To Evaluate the Catalytic Activity and Rate of Deactivation of Heterogeneous Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1940-1947.	3.7	1
46	Liquid Phase Catalytic Hydrodechlorination of Chlorobenzene Under Microwave Irradiation. , 2006, , 398-404.		1
47	Microwave Pretreatment of Vegetable Materials to Increase the Extraction Yield of Natural Products. <i>Revista De Chimie (discontinued)</i> , 2018, 69, 1976-1979.	0.4	1
48	Enzymatic Pretreatment of Vegetable Materials to Increase the Extraction Yield of Bioactive Compounds. <i>Revista De Chimie (discontinued)</i> , 2018, 69, 3271-3274.	0.4	1
49	On the ultrasound-assisted preparation of Cu/SiO ₂ system as a selective catalyst for the conversion of biobutanol to butanal. <i>Chemical Papers</i> , 2022, 76, 1443-1455.	2.2	1
50	Methods of Obtaining Extracts from <i>Hedera helix</i> L. Leaves and Evaluation of the Total Saponins Content. , 2022, 7, .		1
51	Ionizing radiation in the field of hydrogels used for agriculture and medicine. <i>European Physical Journal D</i> , 1999, 49, 507-512.	0.4	0
52	Application of Electron Beams, Microwaves and Catalysis to Volatile Organic Compounds Decomposition. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
53	New polymeric composites for heat transfer. <i>Colloid and Polymer Science</i> , 2015, 293, 2593-2598.	2.1	0
54	Rapid Analysis of the Volatile Components of <i>Gaillardia aristata</i> and <i>G. Å— grandiflora</i> . <i>Chemistry of Natural Compounds</i> , 2015, 51, 787-789.	0.8	0

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55	Electromagnetic Interference (EMI) Shielding and Microwave Absorption Properties of Nickel Ferrite NiFe ₂ O ₄ / PANI-PTSA Nanocomposite. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 1312-1323.	1.4	0
56	GROWTH OF NANNOCHLORIS ALGAE IN THE PRESENCE OF MICROWAVES (CONTINUOUS REACTOR). , 0, , .		0
57	Correlation of isoconcentration profiles resolution of water parameters with on-site sampling methodology. <i>Revue Roumaine De Chimie</i> , 2020, 65, 43-49.	0.2	0