

Saeid Baroutian

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,225
citations

100601

38
h-index

104191

69
g-index

103
all docs

103
docs citations

103
times ranked

6361
citing authors

#	ARTICLE	IF	CITATIONS
1	Subcritical hydrothermal deconstruction of two hormones (adrenaline and progesterone) in pharmaceutical waste. <i>Journal of Supercritical Fluids</i> , 2022, 179, 105388.	1.6	9
2	The effect of liquid smoke obtained from fast pyrolysis of a hardwood on physical properties and shelf life of cheddar cheese. <i>European Food Research and Technology</i> , 2022, 248, 625-633.	1.6	2
3	Effect of rhamnolipid biosurfactant on biodegradation of untreated and UV-pretreated non-degradable thermoplastics: Part 2. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107033.	3.3	9
4	Catalytic wet oxidation of glucose as a model compound for organic waste using transition metal oxide powders. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107198.	3.3	10
5	The effects of ageing treatment on bioactive contents and chemical composition of liquid smoke food flavourings. <i>European Food Research and Technology</i> , 2022, 248, 1311-1319.	1.6	1
6	Effects of Spray-Drying and Freeze-Drying on Bioactive and Volatile Compounds of Smoke Powder Food Flavouring. <i>Food and Bioprocess Technology</i> , 2022, 15, 785-794.	2.6	17
7	Current status and trends in extraction of bioactives from brown macroalgae using supercritical CO_2 and subcritical water. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 1929-1940.	1.6	9
8	Digitalisation in chemical engineering: Industrial needs, academic best practice, and curriculum limitations. <i>Education for Chemical Engineers</i> , 2022, 39, 94-107.	2.8	12
9	Quantification and composition of pharmaceutical waste in New Zealand. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1603-1611.	1.6	4
10	Oxidised plasma-sprayed transition metal " Reusable supported catalysts for organic waste treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 113, 488-501.	2.9	2
11	Oxidative hydrothermal surface modification of activated carbon for sevoflurane removal. <i>Chemosphere</i> , 2021, 264, 128535.	4.2	10
12	Recovery of bioactives from k�nuka leaves using subcritical water extraction: Techno-economic analysis, environmental impact assessment and technology readiness level. <i>Journal of Supercritical Fluids</i> , 2021, 169, 105119.	1.6	17
13	Transforming biomass pyrolysis technologies to produce liquid smoke food flavouring. <i>Journal of Cleaner Production</i> , 2021, 294, 125368.	4.6	28
14	The antibacterial and antiproliferative ability of k�nuka, <i>Kunzea ericoides</i> , leaf extracts obtained by subcritical water extraction. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1308-1315.	1.6	5
15	Enhancement of landfill gas generation from aged waste by a combination of moisture adjustment and application of biochar and neutral red additives: A field-scale study. <i>Fuel</i> , 2021, 283, 118932.	3.4	17
16	Degradation of plastic waste using stimulated and naturally occurring microbial strains. <i>Chemosphere</i> , 2021, 263, 127975.	4.2	78
17	Economic Performance of Small-Scale Fast Pyrolysis Process of Coproducing Liquid Smoke Food Flavoring and Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1911-1919.	3.2	9
18	Plasma spraying of transition metal oxide coatings. <i>Surface Engineering</i> , 2021, 37, 875-889.	1.1	5

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19	Production of liquid smoke using fluidised-bed fast pyrolysis and its application to green lipped mussel meat. <i>Food Control</i> , 2021, 124, 107874.	2.8	17
20	Enhancing biogas production from caribbean pelagic Sargassum utilising hydrothermal pretreatment and anaerobic co-digestion with food waste. <i>Chemosphere</i> , 2021, 275, 130035.	4.2	35
21	Challenges in biodegradation of non-degradable thermoplastic waste: From environmental impact to operational readiness. <i>Biotechnology Advances</i> , 2021, 49, 107731.	6.0	54
22	Enhanced biodegradation of non-biodegradable plastics by UV radiation: Part 1. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106464.	3.3	18
23	Hydrothermal deconstruction of local anesthetics (bupivacaine and lignocaine) in pharmaceutical waste. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106273.	3.3	9
24	Techno-economic and environmental impact assessment of biogas production and fertiliser recovery from pelagic Sargassum: A biorefinery concept for Barbados. <i>Energy Conversion and Management</i> , 2021, 245, 114605.	4.4	16
25	Mechanisms, status, and challenges of thermal hydrolysis and advanced thermal hydrolysis processes in sewage sludge treatment. <i>Chemosphere</i> , 2021, 281, 130890.	4.2	58
26	Hydrothermal co-hydrolysis of corncob/sugarcane bagasse/Broussonetia papyrifera blends: Kinetics, thermodynamics and fermentation. <i>Bioresource Technology</i> , 2021, 342, 125923.	4.8	7
27	Benefits and Challenges of a Virtual Laboratory in Chemical and Biochemical Engineering: Students's™ Experiences in Fermentation. <i>Journal of Chemical Education</i> , 2021, 98, 866-875.	1.1	25
28	Hydrothermal deconstruction of two antibiotics (amoxicillin and metronidazole). <i>Journal of Cleaner Production</i> , 2021, 325, 129330.	4.6	12
29	Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons. <i>Chemosphere</i> , 2020, 239, 124839.	4.2	41
30	Effects of biochar and activated carbon on biogas generation: A thermogravimetric and chemical analysis approach. <i>Energy Conversion and Management</i> , 2020, 203, 112221.	4.4	42
31	Recognizing the challenges of anaerobic digestion: Critical steps toward improving biogas generation. <i>Fuel</i> , 2020, 261, 116497.	3.4	149
32	Subcritical water extraction for selective recovery of phenolic bioactives from kAnuka leaves. <i>Journal of Supercritical Fluids</i> , 2020, 158, 104721.	1.6	21
33	Tailoring of activated carbon with ammonia for enhanced anaesthetic sevoflurane adsorption. <i>Separation and Purification Technology</i> , 2020, 251, 117404.	3.9	0
34	Enrichment of surface oxygen functionalities on activated carbon for adsorptive removal of sevoflurane. <i>Chemosphere</i> , 2020, 260, 127496.	4.2	15
35	Authors's™ response to comments on Ang etAl. 'Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons'. <i>Chemosphere</i> , 2020, 247, 126389.	4.2	2
36	Catalytic wet oxidation of glucose as model compound of wastewater over copper/rare earth oxides catalysts. <i>Journal of Water Process Engineering</i> , 2020, 36, 101251.	2.6	10

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37	Efficiency of hydrothermal pretreatment on the anaerobic digestion of pelagic Sargassum for biogas and fertiliser recovery. <i>Fuel</i> , 2020, 279, 118527.	3.4	57
38	Recent advances in subcritical water and supercritical carbon dioxide extraction of bioactive compounds from plant materials. <i>Trends in Food Science and Technology</i> , 2020, 97, 156-169.	7.8	173
39	Optimization of food waste hydrothermal liquefaction by a two-step process in association with a double analysis. <i>Energy</i> , 2020, 199, 117438.	4.5	45
40	Improving biogas generation from aged landfill waste using moisture adjustment and neutral red additive “ Case study: Hampton Downs’s landfill site. <i>Energy Conversion and Management</i> , 2020, 216, 112947.	4.4	15
41	Recovery of phenolic antioxidants from green kiwifruit peel using subcritical water extraction. <i>Food and Bioproducts Processing</i> , 2020, 122, 136-144.	1.8	49
42	Valorisation of food waste via hydrothermal carbonisation and techno-economic feasibility assessment. <i>Science of the Total Environment</i> , 2019, 690, 261-276.	3.9	130
43	Advances in the pretreatment of brown macroalgae for biogas production. <i>Fuel Processing Technology</i> , 2019, 195, 106151.	3.7	82
44	A techno-economic-societal assessment of recovery of waste volatile anaesthetics. <i>Separation and Purification Technology</i> , 2019, 226, 304-314.	3.9	9
45	An exploration of barriers for commercializing phosphorus recovery technologies. <i>Journal of Cleaner Production</i> , 2019, 229, 1342-1354.	4.6	64
46	Rheological characterization of thermal hydrolysed waste activated sludge. <i>Water Research</i> , 2019, 156, 445-455.	5.3	16
47	Evaluation of bioactive compounds extracted from Hayward kiwifruit pomace by subcritical water extraction. <i>Food and Bioproducts Processing</i> , 2019, 115, 143-153.	1.8	62
48	Effect of temperature on the fuel properties of food waste and coal blend treated under co-hydrothermal carbonization. <i>Waste Management</i> , 2019, 89, 236-246.	3.7	54
49	Value-added potential of New Zealand mānuka and kānuka products: A review. <i>Industrial Crops and Products</i> , 2019, 130, 198-207.	2.5	18
50	Energy performance evaluation of ultrasonic pretreatment of organic solid waste in a pilot-scale digester. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 517-525.	3.8	23
51	Subcritical water extraction of bioactive compounds from waste onion skin. <i>Journal of Cleaner Production</i> , 2018, 183, 487-494.	4.6	137
52	Decentralized anaerobic digestion systems for increased utilization of biogas from municipal solid waste. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 982-991.	8.2	56
53	Rheological characterisation of biologically treated and non-treated putrescible food waste. <i>Waste Management</i> , 2018, 71, 494-501.	3.7	27
54	Flipped classroom with cooperative learning as a cornerstone. <i>Education for Chemical Engineers</i> , 2018, 23, 25-33.	2.8	72

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55	Effect of Subcritical Water on the Extraction of Bioactive Compounds from Carrot Leaves. <i>Food and Bioprocess Technology</i> , 2018, 11, 1895-1903.	2.6	21
56	Resource recovery from organic solid waste using hydrothermal processing: Opportunities and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 64-75.	8.2	117
57	Physicochemical, structural and combustion characterization of food waste hydrochar obtained by hydrothermal carbonization. <i>Bioresource Technology</i> , 2018, 266, 357-363.	4.8	122
58	Effect of hydrodynamic mixing conditions on wet oxidation reactions in a stirred vessel reactor. <i>Bioresource Technology</i> , 2018, 262, 333-337.	4.8	3
59	Hydrothermal deconstruction of municipal solid waste for solid reduction and value production. <i>Journal of Cleaner Production</i> , 2018, 201, 812-819.	4.6	35
60	Rheological measurements as a tool for monitoring the performance of high pressure and high temperature treatment of sewage sludge. <i>Water Research</i> , 2017, 114, 254-263.	5.3	21
61	A techno-economic comparison of subcritical water, supercritical CO ₂ and organic solvent extraction of bioactives from grape marc. <i>Journal of Cleaner Production</i> , 2017, 158, 349-358.	4.6	85
62	Phosphate recovery from hydrothermally treated sewage sludge using struvite precipitation. <i>Bioresource Technology</i> , 2017, 239, 171-179.	4.8	96
63	Pretreatment of radiata pine using two white rot fungal strains <i>Stereum hirsutum</i> and <i>Trametes versicolor</i> . <i>Energy Conversion and Management</i> , 2017, 142, 13-19.	4.4	55
64	Hydrothermal processing of cellulose: A comparison between oxidative and non-oxidative processes. <i>Bioresource Technology</i> , 2017, 226, 229-237.	4.8	32
65	Variation in metals during wet oxidation of sewage sludge. <i>Bioresource Technology</i> , 2017, 245, 234-241.	4.8	29
66	Fundamental mechanisms and reactions in non-catalytic subcritical hydrothermal processes: A review. <i>Water Research</i> , 2017, 123, 607-622.	5.3	57
67	Bridging theory with real world research experience: Co-teaching Engineering Biotechnology with R&D professionals. <i>Education for Chemical Engineers</i> , 2016, 16, 9-16.	2.8	5
68	Information Literacy: The impact of a hands-on workshop for international postgraduate students. <i>Education for Chemical Engineers</i> , 2016, 14, 16-23.	2.8	6
69	Formation and degradation of valuable intermediate products during wet oxidation of municipal sludge. <i>Bioresource Technology</i> , 2016, 205, 280-285.	4.8	45
70	Combination of fungal and physicochemical processes for lignocellulosic biomass pretreatment – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 217-234.	8.2	255
71	A kinetic model of municipal sludge degradation during non-catalytic wet oxidation. <i>Water Research</i> , 2015, 87, 225-236.	5.3	27
72	Hydrothermal degradation of organic matter in municipal sludge using non-catalytic wet oxidation. <i>Chemical Engineering Journal</i> , 2015, 260, 846-854.	6.6	66

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73	A review of wet air oxidation and Thermal Hydrolysis technologies in sludge treatment. <i>Bioresource Technology</i> , 2014, 155, 289-299.	4.8	213
74	Application of hydrothermal treatment to affect the fermentability of <i>Pinus radiata</i> pulp mill effluent sludge. <i>Bioresource Technology</i> , 2014, 170, 100-107.	4.8	6
75	Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1493-1504.	2.9	17
76	3D Simulation of fatty acid methyl ester production in a packed membrane reactor. <i>Fuel Processing Technology</i> , 2014, 118, 7-19.	3.7	11
77	Technical Evaluation of Pongame and <i>Jatropha B20</i> Fuels in Pakistan. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 759-766.	1.1	4
78	Rheology of a primary and secondary sewage sludge mixture: Dependency on temperature and solid concentration. <i>Bioresource Technology</i> , 2013, 140, 227-233.	4.8	111
79	Blended aviation biofuel from esterified <i>Jatropha curcas</i> and waste vegetable oils. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 911-916.	2.7	42
80	Study of various curved-blade impeller geometries on power consumption in stirred vessel using response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 192-201.	2.7	30
81	Relative influence of process variables during non-catalytic wet oxidation of municipal sludge. <i>Bioresource Technology</i> , 2013, 148, 605-610.	4.8	31
82	Transformation and removal of wood extractives from pulp mill sludge using wet oxidation and thermal hydrolysis. <i>Bioresource Technology</i> , 2013, 146, 294-300.	4.8	37
83	LIQUID-LIQUID MIXING IN STIRRED VESSELS: A REVIEW. <i>Chemical Engineering Communications</i> , 2013, 200, 595-627.	1.5	52
84	Densities and Viscosities of Binary Blends of Methyl Esters + Ethyl Esters and Ternary Blends of Methyl Esters + Ethyl Esters + Diesel Fuel from T = (293.15 to 358.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 1387-1395.	1.0	15
85	Prediction of glycerol removal from biodiesel using ammonium and phosphonium based deep eutectic solvents using artificial intelligence techniques. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 118, 193-199.	1.8	32
86	Densities of ammonium and phosphonium based deep eutectic solvents: Prediction using artificial intelligence and group contribution techniques. <i>Thermochimica Acta</i> , 2012, 527, 59-66.	1.2	264
87	TiO ₂ /Al ₂ O ₃ membrane reactor equipped with a methanol recovery unit to produce palm oil biodiesel. <i>International Journal of Energy Research</i> , 2012, 36, 120-129.	2.2	16
88	Adsorptive removal of residual catalyst from palm biodiesel: Application of response surface methodology. <i>Hemijaska Industrija</i> , 2012, 66, 373-380.	0.3	10
89	A packed bed membrane reactor for production of biodiesel using activated carbon supported catalyst. <i>Bioresource Technology</i> , 2011, 102, 1095-1102.	4.8	165
90	Techno-economic comparison between B10 of <i>Eruca sativa L.</i> and other indigenous seed oils in Pakistan. <i>Chemical Engineering Research and Design</i> , 2011, 89, 165-171.	2.7	47

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91	Methanol recovery during transesterification of palm oil in a TiO ₂ /Al ₂ O ₃ membrane reactor: Experimental study and neural network modeling. Separation and Purification Technology, 2010, 76, 58-63.	3.9	36
92	Potassium hydroxide catalyst supported on palm shell activated carbon for transesterification of palm oil. Fuel Processing Technology, 2010, 91, 1378-1385.	3.7	160
93	Viscosities and Densities of Binary and Ternary Blends of Palm Oil + Palm Biodiesel + Diesel Fuel at Different Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 504-507.	1.0	47
94	Density of Jatropha curcas Seed Oil and its Methyl Esters: Measurement and Estimations. International Journal of Thermophysics, 2009, 30, 529-541.	1.0	40
95	Removal of Hexavalent Chromium-Contaminated Water and Wastewater: A Review. Water, Air, and Soil Pollution, 2009, 200, 59-77.	1.1	733
96	Density of Palm Oil-Based Methyl Ester. Journal of Chemical & Engineering Data, 2008, 53, 877-880.	1.0	69
97	ESTIMATION OF PARTICLE CONCENTRATION EMITTED FROM THE STACKS OF KERMAN CEMENT PLANT USING ARTIFICIAL NEURAL NETWORKS. Chemical Engineering Communications, 2008, 195, 821-833.	1.5	5
98	Densities of Ethyl Esters Produced from Different Vegetable Oils. Journal of Chemical & Engineering Data, 2008, 53, 2222-2225.	1.0	28
99	Prediction of Palm Oil-Based Methyl Ester Biodiesel Density Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 1938-1943.	0.1	14
100	Estimation of Vegetable Oil-Based Ethyl Esters Biodiesel Densities Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 3005-3011.	0.1	15
101	Numerical Modeling of Particulate Matter Dispersion from Kerman Cement Plant, Iran. Environmental Monitoring and Assessment, 2007, 130, 73-82.	1.3	6
102	Measuring and modeling particulate dispersion: A case study of Kerman Cement Plant. Journal of Hazardous Materials, 2006, 136, 468-474.	6.5	28