

Saeid Baroutian

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,225
citations

87888
38
h-index

91884
69
g-index

103
all docs

103
docs citations

103
times ranked

5703
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.	3.2	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.	3.3	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.	6.7	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.	6.7	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.	3.3	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.	4.7	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.	3.2	9
8	Digitalisation in chemical engineering: Industrial needs, academic best practice, and curriculum limitations. <i>Education for Chemical Engineers</i> , 2022, 39, 94-107.	4.8	12
9	Quantification and composition of pharmaceutical waste in New Zealand. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1603-1611.	3.0	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.	5.8	2
11	Oxidative hydrothermal surface modification of activated carbon for sevoflurane removal. <i>Chemosphere</i> , 2021, 264, 128535.	8.2	10
12	Recovery of bioactives from <i>Kunzea</i> leaves using subcritical water extraction: Techno-economic analysis, environmental impact assessment and technology readiness level. <i>Journal of Supercritical Fluids</i> , 2021, 169, 105119.	3.2	17
13	Transforming biomass pyrolysis technologies to produce liquid smoke food flavouring. <i>Journal of Cleaner Production</i> , 2021, 294, 125368.	9.3	28
14	The antibacterial and antiproliferative ability of <i>Kunzea ericoides</i> , leaf extracts obtained by subcritical water extraction. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1308-1315.	3.2	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.	6.4	17
16	Degradation of plastic waste using stimulated and naturally occurring microbial strains. <i>Chemosphere</i> , 2021, 263, 127975.	8.2	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.	6.7	9
18	Plasma spraying of transition metal oxide coatings. <i>Surface Engineering</i> , 2021, 37, 875-889.	2.2	5

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19	Production of liquid smoke using fluidised-bed fast pyrolysis and its application to green lipped mussel meat. Food Control, 2021, 124, 107874.	5.5	17
20	Enhancing biogas production from caribbean pelagic Sargassum utilising hydrothermal pretreatment and anaerobic co-digestion with food waste. Chemosphere, 2021, 275, 130035.	8.2	35
21	Challenges in biodegradation of non-degradable thermoplastic waste: From environmental impact to operational readiness. Biotechnology Advances, 2021, 49, 107731.	11.7	54
22	Enhanced biodegradation of non-biodegradable plastics by UV radiation: Part 1. Journal of Environmental Chemical Engineering, 2021, 9, 106464.	6.7	18
23	Hydrothermal deconstruction of local anesthetics (bupivacaine and lignocaine) in pharmaceutical waste. Journal of Environmental Chemical Engineering, 2021, 9, 106273.	6.7	9
24	Techno-economic and environmental impact assessment of biogas production and fertiliser recovery from pelagic Sargassum: A biorefinery concept for Barbados. Energy Conversion and Management, 2021, 245, 114605.	9.2	16
25	Mechanisms, status, and challenges of thermal hydrolysis and advanced thermal hydrolysis processes in sewage sludge treatment. Chemosphere, 2021, 281, 130890.	8.2	58
26	Hydrothermal co-hydrolysis of corncob/sugarcane bagasse/Broussonetia papyrifera blends: Kinetics, thermodynamics and fermentation. Bioresource Technology, 2021, 342, 125923.	9.6	7
27	Benefits and Challenges of a Virtual Laboratory in Chemical and Biochemical Engineering: Students's™ Experiences in Fermentation. Journal of Chemical Education, 2021, 98, 866-875.	2.3	25
28	Hydrothermal deconstruction of two antibiotics (amoxicillin and metronidazole). Journal of Cleaner Production, 2021, 325, 129330.	9.3	12
29	Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons. Chemosphere, 2020, 239, 124839.	8.2	41
30	Effects of biochar and activated carbon on biogas generation: A thermogravimetric and chemical analysis approach. Energy Conversion and Management, 2020, 203, 112221.	9.2	42
31	Recognizing the challenges of anaerobic digestion: Critical steps toward improving biogas generation. Fuel, 2020, 261, 116497.	6.4	149
32	Subcritical water extraction for selective recovery of phenolic bioactives from kAnuka leaves. Journal of Supercritical Fluids, 2020, 158, 104721.	3.2	21
33	Tailoring of activated carbon with ammonia for enhanced anaesthetic sevoflurane adsorption. Separation and Purification Technology, 2020, 251, 117404.	7.9	0
34	Enrichment of surface oxygen functionalities on activated carbon for adsorptive removal of sevoflurane. Chemosphere, 2020, 260, 127496.	8.2	15
35	Authors's™ response to comments on Ang etAl. 'Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons'. Chemosphere, 2020, 247, 126389.	8.2	2
36	Catalytic wet oxidation of glucose as model compound of wastewater over copper/rare earth oxides catalysts. Journal of Water Process Engineering, 2020, 36, 101251.	5.6	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.	6.4	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.	15.1	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.	8.8	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.	9.2	15
41	Recovery of phenolic antioxidants from green kiwifruit peel using subcritical water extraction. <i>Food and Bioproducts Processing</i> , 2020, 122, 136-144.	3.6	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.	8.0	130
43	Advances in the pretreatment of brown macroalgae for biogas production. <i>Fuel Processing Technology</i> , 2019, 195, 106151.	7.2	82
44	A techno-economic-societal assessment of recovery of waste volatile anaesthetics. <i>Separation and Purification Technology</i> , 2019, 226, 304-314.	7.9	9
45	An exploration of barriers for commercializing phosphorus recovery technologies. <i>Journal of Cleaner Production</i> , 2019, 229, 1342-1354.	9.3	64
46	Rheological characterization of thermal hydrolysed waste activated sludge. <i>Water Research</i> , 2019, 156, 445-455.	11.3	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.	3.6	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.	7.4	54
49	Value-added potential of New Zealand mānuka and kānuka products: A review. <i>Industrial Crops and Products</i> , 2019, 130, 198-207.	5.2	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.	8.2	23
51	Subcritical water extraction of bioactive compounds from waste onion skin. <i>Journal of Cleaner Production</i> , 2018, 183, 487-494.	9.3	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.	16.4	56
53	Rheological characterisation of biologically treated and non-treated putrescible food waste. <i>Waste Management</i> , 2018, 71, 494-501.	7.4	27
54	Flipped classroom with cooperative learning as a cornerstone. <i>Education for Chemical Engineers</i> , 2018, 23, 25-33.	4.8	72

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55	Effect of Subcritical Water on the Extraction of Bioactive Compounds from Carrot Leaves. Food and Bioprocess Technology, 2018, 11, 1895-1903.	4.7	21
56	Resource recovery from organic solid waste using hydrothermal processing: Opportunities and challenges. Renewable and Sustainable Energy Reviews, 2018, 96, 64-75.	16.4	117
57	Physicochemical, structural and combustion characterization of food waste hydrochar obtained by hydrothermal carbonization. Bioresource Technology, 2018, 266, 357-363.	9.6	122
58	Effect of hydrodynamic mixing conditions on wet oxidation reactions in a stirred vessel reactor. Bioresource Technology, 2018, 262, 333-337.	9.6	3
59	Hydrothermal deconstruction of municipal solid waste for solid reduction and value production. Journal of Cleaner Production, 2018, 201, 812-819.	9.3	35
60	Rheological measurements as a tool for monitoring the performance of high pressure and high temperature treatment of sewage sludge. Water Research, 2017, 114, 254-263.	11.3	21
61	A techno-economic comparison of subcritical water, supercritical CO ₂ and organic solvent extraction of bioactives from grape marc. Journal of Cleaner Production, 2017, 158, 349-358.	9.3	85
62	Phosphate recovery from hydrothermally treated sewage sludge using struvite precipitation. Bioresource Technology, 2017, 239, 171-179.	9.6	96
63	Pretreatment of radiata pine using two white rot fungal strains Stereum hirsutum and Trametes versicolor. Energy Conversion and Management, 2017, 142, 13-19.	9.2	55
64	Hydrothermal processing of cellulose: A comparison between oxidative and non-oxidative processes. Bioresource Technology, 2017, 226, 229-237.	9.6	32
65	Variation in metals during wet oxidation of sewage sludge. Bioresource Technology, 2017, 245, 234-241.	9.6	29
66	Fundamental mechanisms and reactions in non-catalytic subcritical hydrothermal processes: A review. Water Research, 2017, 123, 607-622.	11.3	57
67	Bridging theory with real world research experience: Co-teaching Engineering Biotechnology with R&D professionals. Education for Chemical Engineers, 2016, 16, 9-16.	4.8	5
68	Information Literacy: The impact of a hands-on workshop for international postgraduate students. Education for Chemical Engineers, 2016, 14, 16-23.	4.8	6
69	Formation and degradation of valuable intermediate products during wet oxidation of municipal sludge. Bioresource Technology, 2016, 205, 280-285.	9.6	45
70	Combination of fungal and physicochemical processes for lignocellulosic biomass pretreatment – A review. Renewable and Sustainable Energy Reviews, 2016, 54, 217-234.	16.4	255
71	A kinetic model of municipal sludge degradation during non-catalytic wet oxidation. Water Research, 2015, 87, 225-236.	11.3	27
72	Hydrothermal degradation of organic matter in municipal sludge using non-catalytic wet oxidation. Chemical Engineering Journal, 2015, 260, 846-854.	12.7	66

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73	A review of wet air oxidation and Thermal Hydrolysis technologies in sludge treatment. Bioresource Technology, 2014, 155, 289-299.	9.6	213
74	Application of hydrothermal treatment to affect the fermentability of Pinus radiata pulp mill effluent sludge. Bioresource Technology, 2014, 170, 100-107.	9.6	6
75	Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation. Journal of Industrial and Engineering Chemistry, 2014, 20, 1493-1504.	5.8	17
76	3D Simulation of fatty acid methyl ester production in a packed membrane reactor. Fuel Processing Technology, 2014, 118, 7-19.	7.2	11
77	Technical Evaluation of Pongame and Jatropha B20 Fuels in Pakistan. Arabian Journal for Science and Engineering, 2013, 38, 759-766.	1.1	4
78	Rheology of a primary and secondary sewage sludge mixture: Dependency on temperature and solid concentration. Bioresource Technology, 2013, 140, 227-233.	9.6	111
79	Blended aviation biofuel from esterified Jatropha curcas and waste vegetable oils. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 911-916.	5.3	42
80	Study of various curved-blade impeller geometries on power consumption in stirred vessel using response surface methodology. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 192-201.	5.3	30
81	Relative influence of process variables during non-catalytic wet oxidation of municipal sludge. Bioresource Technology, 2013, 148, 605-610.	9.6	31
82	Transformation and removal of wood extractives from pulp mill sludge using wet oxidation and thermal hydrolysis. Bioresource Technology, 2013, 146, 294-300.	9.6	37
83	LIQUID-LIQUID MIXING IN STIRRED VESSELS: A REVIEW. Chemical Engineering Communications, 2013, 200, 595-627.	2.6	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. Journal of Chemical & Engineering Data, 2012, 57, 1387-1395.	1.9	15
85	Prediction of glycerol removal from biodiesel using ammonium and phosphonium based deep eutectic solvents using artificial intelligence techniques. Chemometrics and Intelligent Laboratory Systems, 2012, 118, 193-199.	3.5	32
86	Densities of ammonium and phosphonium based deep eutectic solvents: Prediction using artificial intelligence and group contribution techniques. Thermochimica Acta, 2012, 527, 59-66.	2.7	264
87	TiO ₂ /Al ₂ O ₃ membrane reactor equipped with a methanol recovery unit to produce palm oil biodiesel. International Journal of Energy Research, 2012, 36, 120-129.	4.5	16
88	Adsorptive removal of residual catalyst from palm biodiesel: Application of response surface methodology. Hemijiska Industrija, 2012, 66, 373-380.	0.7	10
89	A packed bed membrane reactor for production of biodiesel using activated carbon supported catalyst. Bioresource Technology, 2011, 102, 1095-1102.	9.6	165
90	Techno-economic comparison between B10 of Eruca sativa L. and other indigenous seed oils in Pakistan. Chemical Engineering Research and Design, 2011, 89, 165-171.	5.6	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.	7.9	36
92	Potassium hydroxide catalyst supported on palm shell activated carbon for transesterification of palm oil. Fuel Processing Technology, 2010, 91, 1378-1385.	7.2	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.	1.9	47
94	Density of Jatropha curcas Seed Oil and its Methyl Esters: Measurement and Estimations. International Journal of Thermophysics, 2009, 30, 529-541.	2.1	40
95	Removal of Hexavalent Chromium-Contaminated Water and Wastewater: A Review. Water, Air, and Soil Pollution, 2009, 200, 59-77.	2.4	733
96	Density of Palm Oil-Based Methyl Ester. Journal of Chemical & Engineering Data, 2008, 53, 877-880.	1.9	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.	2.6	5
98	Densities of Ethyl Esters Produced from Different Vegetable Oils. Journal of Chemical & Engineering Data, 2008, 53, 2222-2225.	1.9	28
99	Prediction of Palm Oil-Based Methyl Ester Biodiesel Density Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 1938-1943.	0.3	14
100	Estimation of Vegetable Oil-Based Ethyl Esters Biodiesel Densities Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 3005-3011.	0.3	15
101	Numerical Modeling of Particulate Matter Dispersion from Kerman Cement Plant, Iran. Environmental Monitoring and Assessment, 2007, 130, 73-82.	2.7	6
102	Measuring and modeling particulate dispersion: A case study of Kerman Cement Plant. Journal of Hazardous Materials, 2006, 136, 468-474.	12.4	28