

Omid Tavakoli

List of Publications by Year in descending order

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75
papers

2,072
citations

218592

26
h-index

265120

42
g-index

75
all docs

75
docs citations

75
times ranked

2553
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of graphene-based systems for hydrogen storage. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 104-109.	8.2	119
2	Enzymatic clarification of fruit juices using xylanase immobilized on 1,3,5-triazine-functionalized silica-encapsulated magnetic nanoparticles. <i>Biochemical Engineering Journal</i> , 2016, 109, 51-58.	1.8	109
3	Competitive removal of heavy metal ions from squid oil under isothermal condition by CR11 chelate ion exchanger. <i>Journal of Hazardous Materials</i> , 2017, 334, 256-266.	6.5	98
4	Green methods for the synthesis of metal nanoparticles using biogenic reducing agents: a review. <i>Reviews in Chemical Engineering</i> , 2018, 34, 529-559.	2.3	95
5	Electrochemical hydrogen storage in Pd-coated porous silicon/graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12175-12182.	3.8	85
6	Effective Recovery of Harmful Metal Ions from Squid Wastes Using Subcritical and Supercritical Water Treatments. <i>Environmental Science & Technology</i> , 2005, 39, 2357-2363.	4.6	72
7	Experimental optimization of SC-CO ₂ extraction of carotenoids from <i>Dunaliella salina</i> . <i>Journal of Supercritical Fluids</i> , 2017, 121, 89-95.	1.6	71
8	A review on kinetic study approach for pyrolysis of plastic wastes using thermogravimetric analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 160, 105340.	2.6	65
9	Sub-critical Water Hydrolysis Treatment for Waste Squid Entrails and Production of Amino Acids, Organic Acids, and Fatty Acids. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 253-260.	0.3	60
10	Aptamer-based colorimetric determination of Pb ²⁺ using a paper-based microfluidic platform. <i>Analytical Methods</i> , 2018, 10, 4438-4444.	1.3	52
11	Conversion of scallop viscera wastes to valuable compounds using sub-critical water. <i>Green Chemistry</i> , 2006, 8, 100-106.	4.6	50
12	Bio-oil production from refinery oily sludge using hydrothermal liquefaction technology. <i>Journal of Supercritical Fluids</i> , 2017, 127, 33-40.	1.6	49
13	Phenol contaminated water treatment by photocatalytic degradation on electrospun Ag/TiO ₂ nanofibers: Optimization by the response surface method. <i>Journal of Water Process Engineering</i> , 2020, 37, 101489.	2.6	49
14	Acetic acid is key for synergetic hydrogen production in <i>Chlamydomonas</i> -bacteria co-cultures. <i>Bioresource Technology</i> , 2019, 289, 121648.	4.8	48
15	Production of fucoxanthin by the microalga <i>Tisochrysis lutea</i> : A review of recent developments. <i>Aquaculture</i> , 2020, 516, 734637.	1.7	47
16	Practical strategies to improve harvestable biomass energy yield in microalgal culture: A review. <i>Biomass and Bioenergy</i> , 2021, 145, 105941.	2.9	47
17	Novel Fe ₃ O ₄ /hydroxyapatite/β-cyclodextrin nanocomposite adsorbent: Synthesis and application in heavy metal removal from aqueous solution. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4634.	1.7	45
18	Application of novel magnetic β-cyclodextrin-anhydride polymer nano-adsorbent in cationic dye removal from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 452-463.	2.7	41

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19	Technical, economic and energy assessment of an alternative strategy for mass production of biomass and lipid from microalgae. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 866-873.	3.3	38
20	Improving hydrogen production using co-cultivation of bacteria with <i>Chlamydomonas reinhardtii</i> microalga. <i>Materials Science for Energy Technologies</i> , 2019, 2, 1-7.	1.0	36
21	Rapid biosynthesis of novel Cu/Cr/Ni trimetallic oxide nanoparticles with antimicrobial activity. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1898-1911.	3.3	34
22	High-strength distillery wastewater treatment using catalytic sub- and supercritical water. <i>Journal of Supercritical Fluids</i> , 2015, 97, 74-80.	1.6	33
23	Squid Oil and Fat Production from Squid Wastes Using Subcritical Water Hydrolysis: % Free Fatty Acids and Transesterification. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5675-5680.	1.8	29
24	Subcritical water gasification of beet-based distillery wastewater for hydrogen production. <i>Journal of Supercritical Fluids</i> , 2015, 104, 212-220.	1.6	29
25	Tuning the surface chemistry and porosity of waste-derived nanoporous materials toward exceptional performance in antibiotic adsorption: Experimental and DFT studies. <i>Chemical Engineering Journal</i> , 2019, 374, 274-291.	6.6	29
26	Efficient photocatalytic degradation of organic pollutants by magnetically recoverable nitrogen-doped TiO ₂ nanocomposite photocatalysts under visible light irradiation. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18859-18873.	2.7	28
27	Hydrogen production from dairy wastewater using catalytic supercritical water gasification: Mechanism and reaction pathway. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22368-22384.	3.8	28
28	Hydrogen production through hydrothermal gasification of industrial wastewaters using transition metal oxide catalysts. <i>Journal of Supercritical Fluids</i> , 2016, 114, 32-45.	1.6	27
29	Defect engineering-induced porosity in graphene quantum dots embedded metal-organic frameworks for enhanced benzene and toluene adsorption. <i>Journal of Hazardous Materials</i> , 2021, 416, 125973.	6.5	27
30	Beta-carotene/cyclodextrin-based inclusion complex: improved loading, solubility, stability, and cytotoxicity. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 55-64.	0.9	26
31	Green products from herbal medicine wastes by subcritical water treatment. <i>Journal of Hazardous Materials</i> , 2022, 424, 127294.	6.5	26
32	An experimental study on stability and rheological properties of magnetorheological fluid using iron nanoparticle core-shell structured by cellulose. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1687-1697.	2.0	25
33	Adsorptive mercaptan removal of liquid phase using nanoporous graphene: Equilibrium, kinetic study and DFT calculations. <i>Ecotoxicology and Environmental Safety</i> , 2018, 165, 533-539.	2.9	24
34	Removal of mercaptan from natural gas condensate using N-doped carbon nanotube adsorbents: Kinetic and DFT study. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 288-297.	2.1	24
35	Enhancing production of fucoxanthin by the optimization of culture media of the microalga <i>Tisochrysis lutea</i> . <i>Aquaculture</i> , 2021, 533, 736074.	1.7	22
36	Co-pyrolysis of municipal sewage sludge and microalgae <i>Chlorella Vulgaris</i> : Products™ optimization; thermo-kinetic study, and ANN modeling. <i>Energy Conversion and Management</i> , 2022, 254, 115258.	4.4	22

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37	An Efficient Numerical Scheme to Solve a Quintic Equation of State for Supercritical Fluids. <i>Chemical Engineering Communications</i> , 2015, 202, 402-407.	1.5	21
38	Membrane-sparger vs. membrane contactor as a photobioreactors for carbon dioxide biofixation of <i>Synechococcus elongatus</i> in batch and semi-continuous mode. <i>Journal of CO2 Utilization</i> , 2016, 16, 23-31.	3.3	21
39	Production of ultrafine clobetasol propionate via rapid expansion of supercritical solution (RESS): Full factorial approach. <i>Journal of Supercritical Fluids</i> , 2015, 101, 176-183.	1.6	19
40	Catalytic hydrothermal treatment of pharmaceutical wastewater using sub- and supercritical water reactions. <i>Journal of Supercritical Fluids</i> , 2014, 95, 265-272.	1.6	18
41	Acetic acid uptake rate controls H ₂ production in <i>Chlamydomonas</i> -bacteria co-cultures. <i>Algal Research</i> , 2019, 42, 101605.	2.4	17
42	C-Phycocyanin prevents acute myocardial infarction-induced oxidative stress, inflammation and cardiac damage. <i>Pharmaceutical Biology</i> , 2022, 60, 755-763.	1.3	17
43	A review on alginate-based bioinks, combination with other natural biomaterials and characteristics. <i>Journal of Biomaterials Applications</i> , 2022, 37, 355-372.	1.2	16
44	Potential for biodiesel production and carbon capturing from <i>Synechococcus Elongatus</i> : An isolation and evaluation study. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 9, 230-235.	1.5	15
45	Plant-mediated Cu/Cr/Ni nanoparticle formation strategy for simultaneously separation of the mixed ions from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 148-159.	2.7	15
46	Application of sub-critical water technology for recovery of heavy metal ions from the wastes of Japanese scallop <i>Patinopecten yessoensis</i> . <i>Science of the Total Environment</i> , 2008, 398, 175-184.	3.9	13
47	Enzymatic Production of Biodiesel from Microalgal Oil using Ethyl Acetate as an Acyl Acceptor. <i>Journal of Oleo Science</i> , 2015, 64, 69-74.	0.6	13
48	Hydrothermal liquefaction of <i>Chlorella vulgaris</i> and catalytic upgrading of product: Effect of process parameter on bio-oil yield and thermodynamics modeling. <i>Fuel</i> , 2022, 318, 123595.	3.4	13
49	Co-pyrolysis of lentil husk wastes and <i>Chlorella vulgaris</i> : Bio-oil and biochar yields optimization. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 165, 105548.	2.6	13
50	Cyanobacterial CO ₂ biofixation in batch and semi-continuous cultivation, using hydrophobic and hydrophilic hollow fiber membrane photobioreactors. , 2016, 6, 218-231.		12
51	Algal biorefinery: a potential solution to the food-“energy”-water-“environment nexus. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2623-2664.	2.5	11
52	Decoupling a novel <i>Trichormus variabilis</i> - <i>Synechocystis</i> sp. interaction to boost phycoremediation. <i>Scientific Reports</i> , 2019, 9, 2511.	1.6	10
53	Experimental and modeling assessment of large-scale cultivation of microalgae <i>Nannochloropsis</i> sp. PTCC 6016 to reach high efficiency lipid extraction. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 5511-5528.	1.8	10
54	Integrated CO ₂ Capture and Nutrient Removal by Microalgae <i>Chlorella vulgaris</i> and Optimization Using Neural Network and Support Vector Regression. <i>Waste and Biomass Valorization</i> , 2022, 13, 4749-4770.	1.8	10

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55	Production of fucoxanthin from the microalga <i>Tisochrysis lutea</i> in the bubble column photobioreactor applying mass transfer coefficient. <i>Journal of Biotechnology</i> , 2022, 348, 47-54.	1.9	9
56	Bioenergy production using <i>Trichormus variabilis</i> a review. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1365-1382.	1.9	7
57	Enhanced visible light photocatalytic CO ₂ reduction over direct Z-scheme heterojunction Cu/P co-doped g-C ₃ N ₄ @TiO ₂ photocatalyst. <i>Chemical Papers</i> , 2022, 76, 3459-3469.	1.0	7
58	Superhydrophobic and super-oleophilic natural sponge sorbent for crude oil/water separation. <i>Journal of Water Process Engineering</i> , 2022, 48, 102783.	2.6	7
59	Carbon dioxide biofixation and biomass production from flue gas of power plant using microalgae. , 2012, , .		6
60	The Surveying of Soil and Groundwater Pollution in a Petroleum Refinery and the Potential of Bioremediation for Oil Decontamination. <i>Petroleum Science and Technology</i> , 2013, 31, 2585-2595.	0.7	6
61	The Effect of a Porous Layer on I-V Characterization of a Polysilicon p-n Junction. <i>Silicon</i> , 2018, 10, 205-210.	1.8	6
62	New insights into mechanistic aspects and structure of polycrystalline Cu/Cr/Ni metal oxide nanoclusters synthesized using <i>Eryngium campestre</i> and <i>Froriepia subpinnata</i> . <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 489-499.	1.2	6
63	Efficient photocatalytic degradation of phenol by Ag-doped TiO ₂ nanocomposite photocatalysts under visible light irradiation in a three-phase fluidized bed reactor. <i>Chemical Papers</i> , 2021, 75, 3181-3196.	1.0	6
64	The effect of audible sound frequency on the growth and beta-carotene production of <i>Dunaliella salina</i> . <i>South African Journal of Botany</i> , 2021, 141, 373-382.	1.2	6
65	Effects of simultaneous CO ₂ addition and biomass recycling on growth characteristics of microalgal mixed culture. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 3398-3407.	1.6	5
66	Optimization of culture media to enhance the ability of local <i>Bacillus thuringiensis</i> var. <i>tenebrionis</i> . <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2020, 19, 468-475.	1.0	5
67	Catalytic supercritical water gasification of black liquor along with lignocellulosic biomass. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16729-16740.	3.8	5
68	Fabrication of a new reactor design to apply freshwater mussel <i>Anodonta cygnea</i> for biological removal of water pollution. <i>Aquaculture</i> , 2021, 544, 737077.	1.7	4
69	Experimental and DFT insights into nitrogen and sulfur co-doped carbon nanotubes for effective desulfurization of liquid phases: Equilibrium & kinetic study. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	4
70	Elimination and detoxification of phenanthrene assisted by a laccase from halophile <i>Alkalibacillus almallahensis</i> . <i>Journal of Environmental Health Science & Engineering</i> , 2022, 20, 227-239.	1.4	4
71	Hydrothermal Decomposition of Strongly Acidic Cation Exchange Resin to Valuable Compounds Using Subcritical Water in Alkaline Media. <i>ChemistrySelect</i> , 2020, 5, 3257-3265.	0.7	2
72	Optimization of metabolic intermediates to enhance the production of fucoxanthin from <i>Tisochrysis lutea</i> . <i>Journal of Applied Phycology</i> , 2022, 34, 1269-1279.	1.5	2

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73	Cultivation of Mixed Microalgae Using Municipal Wastewater: Biomass Productivity, Nutrient Removal, and Biochemical Content. Iranian Journal of Biotechnology, 2020, 18, e2586.	0.3	1
74	Design and Optimization of a Two-Stage Microalgae-Assisted Lipid Production. Bioenergy Research, 0, , 1.	2.2	1
75	Investigation of foaming tendency of aqueous mixture of MDEA+IPAE for carbon dioxide absorption. Journal of CO2 Utilization, 2022, 62, 102079.	3.3	0