

Omid Tavakoli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,273
citations

22
h-index

33
g-index

75
ext. papers

1,651
ext. citations

5.3
avg, IF

5.44
L-index

#	Paper	IF	Citations
72	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	10.6	0
71	Green products from herbal medicine wastes by subcritical water treatment. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127294	12.8	3
70	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	3.7	0
69	C-Phycocyanin prevents acute myocardial infarction-induced oxidative stress, inflammation and cardiac damage.. <i>Pharmaceutical Biology</i> , 2022 , 60, 755-763	3.8	2
68	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	7.1	1
67	Superhydrophobic and super-oleophilic natural sponge sorbent for crude oil/water separation. <i>Journal of Water Process Engineering</i> , 2022 , 48, 102783	6.7	0
66	Catalytic supercritical water gasification of black liquor along with lignocellulosic biomass. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 16729-16740	6.7	0
65	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 , 105548	6	0
64	A review on alginate-based bioinks, combination with other natural biomaterials and characteristics.. <i>Journal of Biomaterials Applications</i> , 2022 , 8853282221085690	2.9	2
63	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	6	8
62	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	6.7	8
61	Enhancing production of fucoxanthin by the optimization of culture media of the microalga <i>Tisochrysis lutea</i> . <i>Aquaculture</i> , 2021 , 533, 736074	4.4	11
60	Practical strategies to improve harvestable biomass energy yield in microalgal culture: A review. <i>Biomass and Bioenergy</i> , 2021 , 145, 105941	5.3	25
59	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	1.9	4
58	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	12.8	6
57	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	2.9	4
56	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	4.4	0

55	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	5.8	2
54	Hydrothermal Decomposition of Strongly Acidic Cation-Exchange Resin to Valuable Compounds Using Subcritical Water in Alkaline Media. <i>ChemistrySelect</i> , 2020 , 5, 3257-3265	1.8	1
53	Cultivation of Mixed Microalgae Using Municipal Wastewater: Biomass Productivity, Nutrient Removal, and Biochemical Content. <i>Iranian Journal of Biotechnology</i> , 2020 , 18, e2586	1	
52	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	3.3	1
51	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	6.7	18
50	Production of fucoxanthin by the microalga <i>Tisochrysis lutea</i> : A review of recent developments. <i>Aquaculture</i> , 2020 , 516, 734637	4.4	25
49	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	14.7	14
48	Acetic acid is key for synergetic hydrogen production in <i>Chlamydomonas</i> -bacteria co-cultures. <i>Bioresource Technology</i> , 2019 , 289, 121648	11	25
47	Bioenergy production using <i>Trichormus variabilis</i> – a review. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 1365-1382	5.3	2
46	Decoupling a novel <i>Trichormus variabilis</i> - <i>Synechocystis</i> sp. interaction to boost phycoremediation. <i>Scientific Reports</i> , 2019 , 9, 2511	4.9	6
45	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	2.8	4
44	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	4.1	16
43	Acetic acid uptake rate controls H ₂ production in <i>Chlamydomonas</i> -bacteria co-cultures. <i>Algal Research</i> , 2019 , 42, 101605	5	10
42	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	5.3	12
41	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	3.1	33
40	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	5.2	17
39	Rapid biosynthesis of novel Cu/Cr/Ni trimetallic oxide nanoparticles with antimicrobial activity. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1898-1911	6.8	22
38	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	6.8	32

37	The Effect of a Porous Layer on I-V Characterization of a Polysilicon p-n Junction. <i>Silicon</i> , 2018 , 10, 205-210	3
36	Green methods for the synthesis of metal nanoparticles using biogenic reducing agents: a review. <i>Reviews in Chemical Engineering</i> , 2018 , 34, 529-559	5 63
35	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	4.6 19
34	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	7 17
33	Aptamer-based colorimetric determination of Pb ²⁺ using a paper-based microfluidic platform. <i>Analytical Methods</i> , 2018 , 10, 4438-4444	3.2 35
32	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	4.2 10
31	Investigation of graphene-based systems for hydrogen storage. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 104-109	16.2 77
30	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	12.8 65
29	Bio-oil production from refinery oily sludge using hydrothermal liquefaction technology. <i>Journal of Supercritical Fluids</i> , 2017 , 127, 33-40	4.2 32
28	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	5.3 35
27	Experimental optimization of SC-CO ₂ extraction of carotenoids from <i>Dunaliella salina</i> . <i>Journal of Supercritical Fluids</i> , 2017 , 121, 89-95	4.2 48
26	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	7.6 17
25	Electrochemical hydrogen storage in Pd-coated porous silicon/graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12175-12182	6.7 61
24	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	4.2 87
23	Cyanobacterial CO ₂ biofixation in batch and semi-continuous cultivation, using hydrophobic and hydrophilic hollow fiber membrane photobioreactors 2016 , 6, 218-231	9
22	Hydrogen production through hydrothermal gasification of industrial wastewaters using transition metal oxide catalysts. <i>Journal of Supercritical Fluids</i> , 2016 , 114, 32-45	4.2 19
21	Subcritical water gasification of beet-based distillery wastewater for hydrogen production. <i>Journal of Supercritical Fluids</i> , 2015 , 104, 212-220	4.2 24
20	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, 18859-73	5.1 24

19	High-strength distillery wastewater treatment using catalytic sub- and supercritical water. <i>Journal of Supercritical Fluids</i> , 2015 , 97, 74-80	4.2	29
18	An Efficient Numerical Scheme to Solve a Quintic Equation of State for Supercritical Fluids. <i>Chemical Engineering Communications</i> , 2015 , 202, 402-407	2.2	18
17	Enzymatic production of biodiesel from microalgal oil using ethyl acetate as an acyl acceptor. <i>Journal of Oleo Science</i> , 2015 , 64, 69-74	1.6	11
16	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	4.2	14
15	Catalytic hydrothermal treatment of pharmaceutical wastewater using sub- and supercritical water reactions. <i>Journal of Supercritical Fluids</i> , 2014 , 95, 265-272	4.2	15
14	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	1.4	4
13	Carbon dioxide biofixation and biomass production from flue gas of power plant using microalgae 2012 ,		5
12	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, 175-84	10.2	13
11	Conversion of scallop viscera wastes to valuable compounds using sub-critical water. <i>Green Chemistry</i> , 2006 , 8, 100-106	10	44
10	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	3.9	28
9	Effective recovery of harmful metal ions from squid wastes using subcritical and supercritical water treatments. <i>Environmental Science & Technology</i> , 2005 , 39, 2357-63	10.3	68
8	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	0.8	55
7	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> ,1	3.3	0
6	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> ,1	1.9	1
5	Beta-carotene/cyclodextrin-based inclusion complex: improved loading, solubility, stability, and cytotoxicity. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> ,1	1.7	5
4	Algal Biorefinery: A potential Solution in Food-Energy-Water-Environment Nexus. <i>Sustainable Energy and Fuels</i> ,	5.8	3
3	Elimination and detoxification of phenanthrene assisted by a laccase from halophile <i>Alkalibacillus almallahensis</i> . <i>Journal of Environmental Health Science & Engineering</i> ,1	2.9	0
2	Optimization of metabolic intermediates to enhance the production of fucoxanthin from <i>Tisochrysis lutea</i> . <i>Journal of Applied Phycology</i> ,1	3.2	0

1 Design and Optimization of a Two-Stage Microalgae-Assisted Lipid Production. *Bioenergy Research*,1 3.1 1