List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Investigation of graphene-based systems for hydrogen storage. Renewable and Sustainable Energy Reviews, 2017, 74, 104-109. | 16.4 | 119 |
| 2 | Enzymatic clarification of fruit juices using xylanase immobilized on 1,3,5-triazine-functionalized silica-encapsulated magnetic nanoparticles. Biochemical Engineering Journal, 2016, 109, 51-58. | 3.6 | 109 |
| 3 | Competitive removal of heavy metal ions from squid oil under isothermal condition by CR11 chelate ion exchanger. Journal of Hazardous Materials, 2017, 334, 256-266. | 12.4 | 98 |
| 4 | Green methods for the synthesis of metal nanoparticles using biogenic reducing agents: a review. Reviews in Chemical Engineering, 2018, 34, 529-559. | 4.4 | 95 |
| 5 | Electrochemical hydrogen storage in Pd-coated porous silicon/graphene oxide. International Journal of Hydrogen Energy, 2016, 41, 12175-12182. | 7.1 | 85 |
| 6 | Effective Recovery of Harmful Metal Ions from Squid Wastes Using Subcritical and Supercritical Water Treatments. Environmental Science & 2005, 2005, 2005, 39, 2357-2363. | 10.0 | 72 |
| 7 | Experimental optimization of SC-CO2 extraction of carotenoids from Dunaliella salina. Journal of Supercritical Fluids, 2017, 121, 89-95. | 3.2 | 71 |
| 8 | A review on kinetic study approach for pyrolysis of plastic wastes using thermogravimetric analysis. Journal of Analytical and Applied Pyrolysis, 2021, 160, 105340. | 5.5 | 65 |
| 9 | Sub-critical Water Hydrolysis Treatment for Waste Squid Entrails and Production of Amino Acids, Organic Acids, and Fatty Acids. Journal of Chemical Engineering of Japan, 2004, 37, 253-260. | 0.6 | 60 |
| 10 | Aptamer-based colorimetric determination of Pb ²⁺ using a paper-based microfluidic platform. Analytical Methods, 2018, 10, 4438-4444. | 2.7 | 52 |
| 11 | Conversion of scallop viscera wastes to valuable compounds using sub-critical water. Green Chemistry, 2006, 8, 100-106. | 9.0 | 50 |
| 12 | Bio-oil production from refinery oily sludge using hydrothermal liquefaction technology. Journal of Supercritical Fluids, 2017, 127, 33-40. | 3.2 | 49 |
| 13 | Phenol contaminated water treatment by photocatalytic degradation on electrospun Ag/TiO2 nanofibers: Optimization by the response surface method. Journal of Water Process Engineering, 2020, 37, 101489. | 5.6 | 49 |
| 14 | Acetic acid is key for synergetic hydrogen production in Chlamydomonas-bacteria co-cultures. Bioresource Technology, 2019, 289, 121648. | 9.6 | 48 |
| 15 | Production of fucoxanthin by the microalga Tisochrysis lutea: A review of recent developments. Aquaculture, 2020, 516, 734637. | 3.5 | 47 |
| 16 | Practical strategies to improve harvestable biomass energy yield in microalgal culture: A review. Biomass and Bioenergy, 2021, 145, 105941. | 5.7 | 47 |
| 17 | Novel Fe ₃ O ₄ /hydroxyapatite/βâ€cyclodextrin nanocomposite adsorbent: Synthesis and application in heavy metal removal from aqueous solution. Applied Organometallic Chemistry, 2019, 33, e4634. | 3.5 | 45 |
| 18 | Application of novel magnetic Î ² -cyclodextrin-anhydride polymer nano-adsorbent in cationic dye removal from aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 452-463. | 5.3 | 41 |

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|----|---|------|-----------|
| 19 | Technical, economic and energy assessment of an alternative strategy for mass production of biomass and lipid from microalgae. Journal of Environmental Chemical Engineering, 2018, 6, 866-873. | 6.7 | 38 |
| 20 | Improving hydrogen production using co-cultivation of bacteria with Chlamydomonas reinhardtii microalga. Materials Science for Energy Technologies, 2019, 2, 1-7. | 1.8 | 36 |
| 21 | Rapid biosynthesis of novel Cu/Cr/Ni trimetallic oxide nanoparticles with antimicrobial activity. Journal of Environmental Chemical Engineering, 2018, 6, 1898-1911. | 6.7 | 34 |
| 22 | High-strength distillery wastewater treatment using catalytic sub- and supercritical water. Journal of Supercritical Fluids, 2015, 97, 74-80. | 3.2 | 33 |
| 23 | Squid Oil and Fat Production from Squid Wastes Using Subcritical Water Hydrolysis:  Free Fatty Acids and Transesterification. Industrial & Engineering Chemistry Research, 2006, 45, 5675-5680. | 3.7 | 29 |
| 24 | Subcritical water gasification of beet-based distillery wastewater for hydrogen production. Journal of Supercritical Fluids, 2015, 104, 212-220. | 3.2 | 29 |
| 25 | Tuning the surface chemistry and porosity of waste-derived nanoporous materials toward exceptional performance in antibiotic adsorption: Experimental and DFT studies. Chemical Engineering Journal, 2019, 374, 274-291. | 12.7 | 29 |
| 26 | Efficient photocatalytic degradation of organic pollutants by magnetically recoverable nitrogen-doped TiO2 nanocomposite photocatalysts under visible light irradiation. Environmental Science and Pollution Research, 2015, 22, 18859-18873. | 5.3 | 28 |
| 27 | Hydrogen production from dairy wastewater using catalytic supercritical water gasification: Mechanism and reaction pathway. International Journal of Hydrogen Energy, 2021, 46, 22368-22384. | 7.1 | 28 |
| 28 | Hydrogen production through hydrothermal gasification of industrial wastewaters using transition metal oxide catalysts. Journal of Supercritical Fluids, 2016, 114, 32-45. | 3.2 | 27 |
| 29 | Defect engineering-induced porosity in graphene quantum dots embedded metal-organic frameworks for enhanced benzene and toluene adsorption. Journal of Hazardous Materials, 2021, 416, 125973. | 12.4 | 27 |
| 30 | Beta-carotene/cyclodextrin-based inclusion complex: improved loading, solubility, stability, and cytotoxicity. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2022, 102, 55-64. | 1.6 | 26 |
| 31 | Green products from herbal medicine wastes by subcritical water treatment. Journal of Hazardous Materials, 2022, 424, 127294. | 12.4 | 26 |
| 32 | An experimental study on stability and rheological properties of magnetorheological fluid using iron nanoparticle core–shell structured by cellulose. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1687-1697. | 3.6 | 25 |
| 33 | Adsorptive mercaptan removal of liquid phase using nanoporous graphene: Equilibrium, kinetic study and DFT calculations. Ecotoxicology and Environmental Safety, 2018, 165, 533-539. | 6.0 | 24 |
| 34 | Removal of mercaptan from natural gas condensate using N-doped carbon nanotube adsorbents: Kinetic and DFT study. Journal of Natural Gas Science and Engineering, 2018, 55, 288-297. | 4.4 | 24 |
| 35 | Enhancing production of fucoxanthin by the optimization of culture media of the microalga Tisochrysis lutea. Aquaculture, 2021, 533, 736074. | 3.5 | 22 |
| 36 | Co-pyrolysis of municipal sewage sludge and microalgae Chlorella Vulgaris: Products' optimization; thermo-kinetic study, and ANN modeling. Energy Conversion and Management, 2022, 254, 115258. | 9.2 | 22 |

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|----|--|-----|-----------|
| 37 | An Efficient Numerical Scheme to Solve a Quintic Equation of State for Supercritical Fluids. Chemical Engineering Communications, 2015, 202, 402-407. | 2.6 | 21 |
| 38 | Membrane-sparger vs. membrane contactor as a photobioreactors for carbon dioxide biofixation of Synechococcus elongatus in batch and semi-continuous mode. Journal of CO2 Utilization, 2016, 16, 23-31. | 6.8 | 21 |
| 39 | Production of ultrafine clobetasol propionate via rapid expansion of supercritical solution (RESS): Full factorial approach. Journal of Supercritical Fluids, 2015, 101, 176-183. | 3.2 | 19 |
| 40 | Catalytic hydrothermal treatment of pharmaceutical wastewater using sub- and supercritical water reactions. Journal of Supercritical Fluids, 2014, 95, 265-272. | 3.2 | 18 |
| 41 | Acetic acid uptake rate controls H2 production in Chlamydomonas-bacteria co-cultures. Algal Research, 2019, 42, 101605. | 4.6 | 17 |
| 42 | C-Phycocyanin prevents acute myocardial infarction-induced oxidative stress, inflammation and cardiac damage. Pharmaceutical Biology, 2022, 60, 755-763. | 2.9 | 17 |
| 43 | A review on alginate-based bioinks, combination with other natural biomaterials and characteristics. Journal of Biomaterials Applications, 2022, 37, 355-372. | 2.4 | 16 |
| 44 | Potential for biodiesel production and carbon capturing from Synechococcus Elongatus: An isolation and evaluation study. Biocatalysis and Agricultural Biotechnology, 2017, 9, 230-235. | 3.1 | 15 |
| 45 | Plant-mediated Cu/Cr/Ni nanoparticle formation strategy for simultaneously separation of the mixed ions from aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 148-159. | 5.3 | 15 |
| 46 | Application of sub-critical water technology for recovery of heavy metal ions from the wastes of Japanese scallop Patinopecten yessoensis. Science of the Total Environment, 2008, 398, 175-184. | 8.0 | 13 |
| 47 | Enzymatic Production of Biodiesel from Microalgal Oil using Ethyl Acetate as an Acyl Acceptor. Journal of Oleo Science, 2015, 64, 69-74. | 1.4 | 13 |
| 48 | Hydrothermal liquefaction of Chlorella vulgaris and catalytic upgrading of product: Effect of process parameter on bio-oil yield and thermodynamics modeling. Fuel, 2022, 318, 123595. | 6.4 | 13 |
| 49 | Co-pyrolysis of lentil husk wastes and Chlorella vulgaris: Bio-oil and biochar yields optimization. Journal of Analytical and Applied Pyrolysis, 2022, 165, 105548. | 5.5 | 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. Sustainable Energy and Fuels, 2022, 6, 2623-2664. | 4.9 | 11 |
| 52 | Decoupling a novel Trichormus variabilis-Synechocystis sp. interaction to boost phycoremediation. Scientific Reports, 2019, 9, 2511. | 3.3 | 10 |
| 53 | Experimental and modeling assessment of large-scale cultivation of microalgae Nannochloropsis sp. PTCC 6016 to reach high efficiency lipid extraction. International Journal of Environmental Science and Technology, 2022, 19, 5511-5528. | 3.5 | 10 |
| 54 | Integrated CO2 Capture and Nutrient Removal by Microalgae Chlorella vulgaris and Optimization Using Neural Network and Support Vector Regression. Waste and Biomass Valorization, 2022, 13, 4749-4770. | 3.4 | 10 |

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| 55 | Production of fucoxanthin from the microalga Tisochrysis lutea in the bubble column photobioreactor applying mass transfer coefficient. Journal of Biotechnology, 2022, 348, 47-54. | 3.8 | 9 |
| 56 | Bioenergy production usingTrichormus variabilis– a review. Biofuels, Bioproducts and Biorefining, 2019, 13, 1365-1382. | 3.7 | 7 |
| 57 | Enhanced visibleÂlight photocatalytic CO2 reduction over direct Z-scheme heterojunction Cu/P co-doped g-C3N4@TiO2 photocatalyst. Chemical Papers, 2022, 76, 3459-3469. | 2.2 | 7 |
| 58 | Superhydrophobic and super-oleophilic natural sponge sorbent for crude oil/water separation. Journal of Water Process Engineering, 2022, 48, 102783. | 5.6 | 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. Petroleum Science and Technology, 2013, 31, 2585-2595. | 1.5 | 6 |
| 61 | The Effect of a Porous Layer on I-V Characterization of a Polysilicon p-n Junction. Silicon, 2018, 10, 205-210. | 3.3 | 6 |
| 62 | New insights into mechanistic aspects and structure of polycrystalline Cu/Cr/Ni metal oxide nanoclusters synthesized using Eryngium campestre and Froriepia subpinnata. Korean Journal of Chemical Engineering, 2019, 36, 489-499. | 2.7 | 6 |
| 63 | Efficient photocatalytic degradation of phenol by Ag-doped TiO2 nanocomposite photocatalysts under visible light irradiation in a three-phase fluidized bed reactor. Chemical Papers, 2021, 75, 3181-3196. | 2.2 | 6 |
| 64 | The effect of audible sound frequency on the growth and beta-carotene production of Dunaliella salina. South African Journal of Botany, 2021, 141, 373-382. | 2.5 | 6 |
| 65 | Effects of simultaneous <scp>CO₂</scp> addition and biomass recycling on growth characteristics of microalgal mixed culture. Journal of Chemical Technology and Biotechnology, 2021, 96, 3398-3407. | 3.2 | 5 |
| 66 | Optimization of culture media to enhance the ability of local Bacillus thuringiensis var. tenebrionis. Journal of the Saudi Society of Agricultural Sciences, 2020, 19, 468-475. | 1.9 | 5 |
| 67 | Catalytic supercritical water gasification of black liquor along with lignocellulosic biomass. International Journal of Hydrogen Energy, 2022, 47, 16729-16740. | 7.1 | 5 |
| 68 | Fabrication of a new reactor design to apply freshwater mussel Anodonta cygnea for biological removal of water pollution. Aquaculture, 2021, 544, 737077. | 3.5 | 4 |
| 69 | Experimental and DFT insights into nitrogen and sulfur co-doped carbon nanotubes for effective desulfurization of liquid phases: Equilibrium & kinetic study. Frontiers of Environmental Science and Engineering, 2021, 15, 1. | 6.0 | 4 |
| 70 | Elimination and detoxification of phenanthrene assisted by a laccase from halophile Alkalibacillus almallahensis. Journal of Environmental Health Science & Engineering, 2022, 20, 227-239. | 3.0 | 4 |
| 71 | Hydrothermal Decomposition of Strongly Acidic Cationâ€Exchange Resin to Valuable Compounds Using Subcritical Water in Alkaline Media. ChemistrySelect, 2020, 5, 3257-3265. | 1.5 | 2 |
| 72 | Optimization of metabolic intermediates to enhance the production of fucoxanthin from Tisochrysis lutea. Journal of Applied Phycology, 2022, 34, 1269-1279. | 2.8 | 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. | 3.9 | 1 |
| 75 | Investigation of foaming tendency of aqueous mixture of MDEA+IPAE for carbon dioxide absorption. Journal of CO2 Utilization, 2022, 62, 102079. | 6.8 | 0 |