

Fares Almomani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9472315/publications.pdf>

Version: 2024-02-01

153
papers

4,976
citations

81743

39
h-index

133063

59
g-index

153
all docs

153
docs citations

153
times ranked

3647
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental impacts of solar photovoltaic systems: A critical review of recent progress and future outlook. <i>Science of the Total Environment</i> , 2021, 759, 143528.	3.9	230
2	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). <i>Applied Surface Science</i> , 2020, 506, 144924.	3.1	179
3	Techno-Economic Investigation of an Integrated Boiler-Solar Water Heating/Cooling System: A Case Study. <i>Energies</i> , 2021, 14, 1.	1.6	179
4	A decade of ceria based solar thermochemical H ₂ O/CO ₂ splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 34-60.	3.8	126
5	Combustion synthesis of bifunctional LaMO ₃ (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 22-30.	1.9	120
6	Impact of CO ₂ concentration and ambient conditions on microalgal growth and nutrient removal from wastewater by a photobioreactor. <i>Science of the Total Environment</i> , 2019, 662, 662-671.	3.9	105
7	Photocatalytic degradation of Penicillin G in aqueous solutions: Kinetic, degradation pathway, and microbioassays assessment. <i>Journal of Hazardous Materials</i> , 2022, 421, 126719.	6.5	104
8	Degradation of cyanobacteria toxin by advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2008, 150, 238-249.	6.5	102
9	Prediction of biogas production from chemically treated co-digested agricultural waste using artificial neural network. <i>Fuel</i> , 2020, 280, 118573.	3.4	92
10	Bioremediation and nutrient removal from wastewater by <i>Chlorella vulgaris</i> . <i>Ecological Engineering</i> , 2018, 110, 1-7.	1.6	87
11	Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). <i>Science of the Total Environment</i> , 2019, 693, 133425.	3.9	79
12	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10398-10408.	3.8	79
13	Metal-Organic Frameworks as a Platform for CO ₂ Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO ₂ . <i>Catalysts</i> , 2020, 10, 1293.	1.6	77
14	Intergraded wastewater treatment and carbon bio-fixation from flue gases using <i>Spirulina platensis</i> and mixed algal culture. <i>Chemical Engineering Research and Design</i> , 2019, 124, 240-250.	2.7	75
15	Ammonia electro-oxidation on alloyed PtIr nanoparticles of well-defined size. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2455-2463.	3.8	72
16	Enhancing the production of biogas through anaerobic co-digestion of agricultural waste and chemical pre-treatments. <i>Chemosphere</i> , 2020, 255, 126805.	4.2	69
17	Solar thermochemical ZnO/ZnSO ₄ water splitting cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23474-23483.	3.8	67
18	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. <i>Energies</i> , 2016, 9, 316.	1.6	63

#	ARTICLE	IF	CITATIONS
19	Bio-sorption of toxic metals from industrial wastewater by algae strains <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> : Application of isotherm, kinetic models and process optimization. <i>Science of the Total Environment</i> , 2021, 755, 142654.	3.9	60
20	Data mining for pesticide decontamination using heterogeneous photocatalytic processes. <i>Chemosphere</i> , 2021, 270, 129449.	4.2	59
21	Decontamination of toxic Malathion pesticide in aqueous solutions by Fenton-based processes: Degradation pathway, toxicity assessment and health risk assessment. <i>Journal of Hazardous Materials</i> , 2022, 423, 127016.	6.5	59
22	Assessment of Ce Zr Hf O ₂ based oxides as potential solar thermochemical CO ₂ splitting materials. <i>Ceramics International</i> , 2016, 42, 9354-9362.	2.3	57
23	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23416-23426.	3.8	56
24	Application of Fe ₃ O ₄ magnetite nanoparticles grafted in silica (SiO ₂) for oil recovery from oil in water emulsions. <i>Chemosphere</i> , 2021, 265, 129054.	4.2	53
25	A Review on the Treatment of Petroleum Refinery Wastewater Using Advanced Oxidation Processes. <i>Catalysts</i> , 2021, 11, 782.	1.6	52
26	Degradation of cyanobacteria anatoxin-a by advanced oxidation processes. <i>Separation and Purification Technology</i> , 2007, 57, 85-93.	3.9	49
27	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23464-23473.	3.8	49
28	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	47
29	Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO ₂ splitting reaction. <i>Ceramics International</i> , 2017, 43, 5150-5155.	2.3	47
30	Polymeric adsorbents for oil removal from water. <i>Chemosphere</i> , 2019, 233, 809-817.	4.2	47
31	Solar Thermochemical Hydrogen Production via Terbium Oxide Based Redox Reactions. <i>International Journal of Photoenergy</i> , 2016, 2016, 1-9.	1.4	46
32	Field study of moving bed biofilm reactor technology for post-treatment of wastewater lagoon effluent at 1Å°C. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1596-1604.	1.2	45
33	Photocatalytic conversion of CO ₂ and H ₂ O to useful fuels by nanostructured composite catalysis. <i>Applied Surface Science</i> , 2019, 483, 363-372.	3.1	45
34	An overview on trace CO ₂ removal by advanced physisorbent materials. <i>Journal of Environmental Management</i> , 2020, 255, 109874.	3.8	45
35	Optimizing nutrient removal of moving bed biofilm reactor process using response surface methodology. <i>Bioresource Technology</i> , 2020, 305, 123059.	4.8	44
36	Graphene-based materials for metronidazole degradation: A comprehensive review. <i>Chemosphere</i> , 2022, 286, 131727.	4.2	44

#	ARTICLE	IF	CITATIONS
37	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , 2022, 288, 132559.	4.2	43
38	Sol-gel derived CeO ₂ -Fe ₂ O ₃ nanoparticles: Synthesis, characterization and solar thermochemical application. <i>Ceramics International</i> , 2016, 42, 6728-6737.	2.3	42
39	Impact of photo-oxidation technology on the aqueous solutions of nitrobenzene: Degradation efficiency and biodegradability enhancement. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 184-192.	2.0	40
40	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. <i>Chemosphere</i> , 2019, 233, 234-244.	4.2	40
41	Impact of Fenton and ozone on oxidation of wastewater containing nitroaromatic compounds. <i>Journal of Environmental Sciences</i> , 2008, 20, 675-682.	3.2	39
42	A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery. <i>Chemosphere</i> , 2022, 286, 131730.	4.2	39
43	Prediction the performance of multistage moving bed biological process using artificial neural network (ANN). <i>Science of the Total Environment</i> , 2020, 744, 140854.	3.9	38
44	Performance analysis of hybrid solar chimney power plant for power production and seawater desalination: A sustainable approach. <i>International Journal of Energy Research</i> , 2021, 45, 17327-17341.	2.2	38
45	Algal cells harvesting using cost-effective magnetic nano-particles. <i>Science of the Total Environment</i> , 2020, 720, 137621.	3.9	38
46	Electrochemical oxidation of ammonia (NH ₄ ⁺ /NH ₃) ON synthesized nickel-cobalt oxide catalyst. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4678-4690.	3.8	38
47	Propylene oxide assisted sol-gel synthesis of zinc ferrite nanoparticles for solar fuel production. <i>Ceramics International</i> , 2016, 42, 2431-2438.	2.3	37
48	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , 2018, 172, 128-140.	2.9	37
49	Oxidation of resin and fatty acids by ozone: Kinetics and toxicity study. <i>Water Research</i> , 2006, 40, 392-400.	5.3	35
50	Electrochemical behavior of ammonia on Ni ₉₈ Pd ₂ nano-structured catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 41-48.	3.8	35
51	Kinetic modeling of microalgae growth and CO ₂ bio-fixation using central composite design statistical approach. <i>Science of the Total Environment</i> , 2020, 720, 137594.	3.9	35
52	Harvesting of intact microalgae in single and sequential conditioning steps by chemical and biological based flocculants: Effect on harvesting efficiency, water recovery and algal cell morphology. <i>Bioresource Technology</i> , 2019, 281, 250-259.	4.8	34
53	The novel advancements of nanomaterials in biofuel cells with a focus on electrodes applications. <i>Fuel</i> , 2022, 322, 124237.	3.4	34
54	Graphene-based nanomaterial for desalination of water: A systematic review and meta-analysis. <i>Food and Chemical Toxicology</i> , 2021, 148, 111964.	1.8	33

#	ARTICLE	IF	CITATIONS
55	Graphene-based membrane techniques for heavy metal removal: A critical review. <i>Environmental Technology and Innovation</i> , 2021, 24, 101863.	3.0	33
56	A critical review of the development and demulsification processes applied for oil recovery from oil in water emulsions. <i>Chemosphere</i> , 2022, 291, 133099.	4.2	33
57	CO ₂ Capture Using Aqueous Potassium Carbonate Promoted by Ethylaminoethanol: A Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5238-5246.	1.8	32
58	Solar co-production of samarium and syngas via methanothermal reduction of samarium sesquioxide. <i>Energy Conversion and Management</i> , 2016, 112, 413-422.	4.4	32
59	Intermediate ozonation to enhance biogas production in batch and continuous systems using animal dung and agricultural waste. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 176-187.	1.9	32
60	Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 436-445.	3.8	32
61	A bioassimilation and bioaccumulation model for the removal of heavy metals from wastewater using algae: New strategy. <i>Chemical Engineering Research and Design</i> , 2020, 144, 52-64.	2.7	32
62	Solar-driven hydrogen production from a water-splitting cycle based on carbon-TiO ₂ nano-tubes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3294-3305.	3.8	32
63	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO ₂ , CH ₄ , N ₂ , H ₂ or Mixtures of These Gases from Various Gas Streams. <i>Molecules</i> , 2020, 25, 4274.	1.7	31
64	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. <i>Science of the Total Environment</i> , 2019, 686, 90-96.	3.9	30
65	Removal of copper ions from aqueous solution using NaOH-treated rice husk. <i>Emergent Materials</i> , 2020, 3, 857-870.	3.2	30
66	Combustion synthesized A _{0.5} Sr _{0.5} MnO _{3-δ} perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO ₂ . <i>Applied Surface Science</i> , 2019, 489, 80-91.	3.1	28
67	Assessment of algae-based wastewater treatment in hot climate region: Treatment performance and kinetics. <i>Chemical Engineering Research and Design</i> , 2020, 141, 140-149.	2.7	28
68	Recent advances in MXene-based nanomaterials for desalination at water interfaces. <i>Environmental Research</i> , 2022, 203, 111845.	3.7	28
69	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions. <i>Bioresource Technology</i> , 2022, 347, 126687.	4.8	28
70	Recent Progress on Nanomaterial-Based Membranes for Water Treatment. <i>Membranes</i> , 2021, 11, 995.	1.4	28
71	Kinetic study of electro-Fenton oxidation of azo dyes on boron-doped diamond electrode. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1473-1479.	1.2	27
72	Electrospun Al ₂ O ₃ hydrophobic functionalized membranes for heavy metal recovery using direct contact membrane distillation. <i>International Journal of Energy Research</i> , 2021, 45, 8151-8167.	2.2	26

#	ARTICLE	IF	CITATIONS
73	A comprehensive review on MXenes as new nanomaterials for degradation of hazardous pollutants: Deployment as heterogeneous sonocatalysis. <i>Chemosphere</i> , 2022, 287, 132387.	4.2	26
74	<i>P. putida</i> as biosorbent for the remediation of cobalt and phenol from industrial waste wastewaters. <i>Environmental Technology and Innovation</i> , 2020, 20, 101148.	3.0	25
75	A New Sustainable and Novel Hybrid Solar Chimney Power Plant Design for Power Generation and Seawater Desalination. <i>Sustainability</i> , 2021, 13, 12100.	1.6	23
76	Solid Sorbents as a Retrofit Technology for CO ₂ Removal from Natural Gas Under High Pressure and Temperature Conditions. <i>Scientific Reports</i> , 2020, 10, 269.	1.6	22
77	Thermochemical splitting of CO ₂ using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , 2021, 285, 119154.	3.4	22
78	Doping amino acids with classical gas hydrate inhibitors to facilitate the hydrate inhibition effect at low dosages. , 2020, 10, 783-794.		22
79	Integration of Solar Chimney Power Plant with Photovoltaic for Co-Cooling, Power Production, and Water Desalination. <i>Processes</i> , 2021, 9, 2155.	1.3	22
80	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. <i>Sustainability</i> , 2022, 14, 955.	1.6	22
81	Application of magnetic nanoparticles for the removal of oil from oil-in-water emulsion: Regeneration/reuse of spent particles. <i>Journal of Petroleum Science and Engineering</i> , 2021, 203, 108591.	2.1	21
82	State of charge estimation for a group of lithium-ion batteries using long short-term memory neural network. <i>Journal of Energy Storage</i> , 2022, 52, 104761.	3.9	21
83	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , 2017, 2, 3365-3370.	0.5	20
84	Thermocatalytic splitting of CO ₂ using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , 2019, 257, 115965.	3.4	20
85	Graphene derivatives in bioplastic: A comprehensive review of properties and future perspectives. <i>Chemosphere</i> , 2022, 286, 131892.	4.2	20
86	A global systematic review of the concentrations of Malathion in water matrices: Meta-analysis, and probabilistic risk assessment. <i>Chemosphere</i> , 2022, 291, 132789.	4.2	20
87	An integrated framework of data-driven, metaheuristic, and mechanistic modeling approach for biomass pyrolysis. <i>Chemical Engineering Research and Design</i> , 2022, 162, 337-345.	2.7	20
88	Treatment of waste gas contaminated with dichloromethane using photocatalytic oxidation, biodegradation and their combinations. <i>Journal of Hazardous Materials</i> , 2021, 405, 123735.	6.5	19
89	Valorization and optimization of agro-industrial orange waste for the production of enzyme by halophilic <i>Streptomyces</i> sp.. <i>Environmental Research</i> , 2021, 201, 111494.	3.7	19
90	An Innovative Design of a Solar Double-Chimney Power Plant for Electricity Generation. <i>Energies</i> , 2021, 14, 6235.	1.6	18

#	ARTICLE	IF	CITATIONS
91	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2022, 291, 133036.	4.2	18
92	Paper Mill Sludge as a Source of Sugars for Use in the Production of Bioethanol and Isoprene. <i>Energies</i> , 2020, 13, 4662.	1.6	17
93	A novel technique of paper mill sludge conversion to bioethanol toward sustainable energy production: Effect of fiber recovery on the saccharification hydrolysis and fermentation. <i>Energy</i> , 2021, 223, 120018.	4.5	17
94	Artificial Neural Networks for Predicting Hydrogen Production in Catalytic Dry Reforming: A Systematic Review. <i>Energies</i> , 2021, 14, 2894.	1.6	17
95	Optimization of thermostable proteases production under agro-wastes solid-state fermentation by a new thermophilic <i>Mycothermus thermophilus</i> isolated from a hydrothermal spring Hammam Debagh, Algeria. <i>Chemosphere</i> , 2022, 286, 131479.	4.2	17
96	Solar/UV _A -induced photocatalytic degradation of volatile toluene. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1167-1176.	1.2	16
97	Treatment of septic tank effluent using moving-bed biological reactor: kinetic and biofilm morphology. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1917-1932.	1.8	16
98	Characterization of polysulfone/diisopropylamine 1-ethyl-3-(3-dimethylimidazolium ionic liquid membranes: high pressure gas separation applications. , 2020, 10, 795-808.		15
99	Innovative BPPO Anion Exchange Membranes Formulation Using Diffusion Dialysis-Enhanced Acid Regeneration System. <i>Membranes</i> , 2021, 11, 311.	1.4	15
100	Health risk assessment induced by trace toxic metals in tap drinking water: Condorcet principle development. <i>Chemosphere</i> , 2022, 286, 131821.	4.2	15
101	Thermochemical splitting of CO ₂ using Co-precipitation synthesized Ce _{0.75} Zr _{0.2} Mn _{0.05} O _{2-δ} (M ²⁺ =Cr, Mn.) <i>Journal of Energy Conversion</i> , 2021, 42, 1484-1494.	3.4	14
102	Solar oxidation of toluene over Co doped nano-catalyst. <i>Chemosphere</i> , 2020, 255, 126878.	4.2	14
103	Solar photo-catalytic production of hydrogen by irradiation of cobalt co-doped TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12068-12081.	3.8	14
104	Study on Boil-off Gas (BOG) Minimization and Recovery Strategies from Actual Baseload LNG Export Terminal: Towards Sustainable LNG Chains. <i>Energies</i> , 2021, 14, 3478.	1.6	14
105	A new insight into the separation of oil from oil/water emulsion by Fe ₃ O ₄ @SiO ₂ nanoparticles. <i>Environmental Research</i> , 2021, 202, 111645.	3.7	14
106	Enhanced oil recovery using hyperbranched polyglycerol polymer-coated silica nanoparticles. <i>Chemosphere</i> , 2021, 285, 131295.	4.2	14
107	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil-Water Separation Processes. <i>Nanomaterials</i> , 2022, 12, 87.	1.9	14
108	Sol-gel synthesized Ni _x Fe _{3-x} O ₄ for thermochemical conversion of CO ₂ . <i>Applied Surface Science</i> , 2019, 489, 693-700.	3.1	13

#	ARTICLE	IF	CITATIONS
109	Application of Li-, Mg-, Ba-, Sr-, Ca-, and Sn-doped ceria for solar-driven thermochemical conversion of carbon dioxide. <i>Journal of Materials Science</i> , 2020, 55, 11797-11807.	1.7	13
110	Functionalization of silica-coated magnetic nanoparticles as powerful demulsifier to recover oil from oil-in-water emulsion. <i>Chemosphere</i> , 2021, 279, 130360.	4.2	13
111	Synthesis of Porous BPPO-Based Anion Exchange Membranes for Acid Recovery via Diffusion Dialysis. <i>Membranes</i> , 2022, 12, 95.	1.4	13
112	Forecast of the outbreak of COVID-19 using artificial neural network: Case study Qatar, Spain, and Italy. <i>Results in Physics</i> , 2021, 27, 104484.	2.0	12
113	Fabrication of titanium dioxide nanomaterial for implantable highly flexible composite bioelectrode for biosensing applications. <i>Chemosphere</i> , 2021, 273, 129680.	4.2	11
114	Probing the effect of various water fractions on methane (CH ₄) hydrate phase equilibria and hydrate inhibition performance of amino acid L-proline. <i>Journal of Molecular Liquids</i> , 2021, 333, 115888.	2.3	11
115	Sustainable removal of copper from wastewater using chemically treated bio-sorbent: Characterization, mechanism and process kinetics. <i>Environmental Technology and Innovation</i> , 2021, 23, 101555.	3.0	11
116	Evaluation of the efficiency of ionic liquids in the demulsification of oil-in-water emulsions. <i>Environmental Technology and Innovation</i> , 2021, 24, 102003.	3.0	11
117	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. <i>Sustainability</i> , 2022, 14, 499.	1.6	11
118	Thermochemical splitting of CO ₂ using solution combustion synthesized LaMO ₃ (where, M=Co, Fe, Mn,) <i>Tj ETQq0 0 0 rgBT/Overlock</i>	3.1	10
119	Hydrogen production via solar driven thermochemical cerium oxide " cerium sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10381-10390.	3.8	9
120	Potential Use of Treated Wastewater as Groundwater Recharge Using GIS Techniques and Modeling Tools in Dhuleil-Halabat Well-Field/Jordan. <i>Water (Switzerland)</i> , 2021, 13, 1581.	1.2	9
121	A novel hybrid solar chimney power plant: Performance analysis and deployment feasibility. <i>Energy Science and Engineering</i> , 2022, 10, 3559-3579.	1.9	9
122	Treatment of Air Containing Volatile Organic Carbon: Elimination and Post Treatment. <i>Environmental Engineering Science</i> , 2007, 24, 1038-1047.	0.8	8
123	Thermodynamic analysis of solar-driven chemical looping steam methane reforming over Cr ₂ O ₃ /Cr redox pair. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10370-10380.	3.8	8
124	Ni incorporation in MgFe ₂ O ₄ for improved CO ₂ -splitting activity during solar fuel production. <i>Journal of Materials Science</i> , 2020, 55, 11086-11094.	1.7	8
125	Prospective of Upfront Nitrogen (N ₂) Removal in LNG Plants: Technical Communication. <i>Energies</i> , 2021, 14, 3616.	1.6	8
126	Analysis and feasibility of integrating a new and novel hybrid solar chimney power plant with a traditional electrical grid. <i>International Journal of Energy Research</i> , 2022, 46, 9194-9205.	2.2	8

#	ARTICLE	IF	CITATIONS
127	Biodegradability Enhancement of 2,4-Dichlorophenol Aqueous Solution by Means of Photo-Fenton Reaction. <i>Environmental Engineering Science</i> , 2006, 23, 722-733.	0.8	7
128	Electro-oxidation of two reactive azo dyes on boron-doped diamond electrode. <i>Water Science and Technology</i> , 2012, 66, 465-471.	1.2	7
129	Effect of Membrane Fouling on Fertilizer-Drawn Forward Osmosis Desalination Performance. <i>Membranes</i> , 2020, 10, 243.	1.4	7
130	Co-precipitation synthesized nanostructured $Ce_{0.9}Ln_{0.05}Ag_{0.05}O_{2-\delta}$ materials for solar thermochemical conversion of CO ₂ into fuels. <i>Journal of Materials Science</i> , 2020, 55, 9748-9761.	1.7	7
131	Ammonia Electrooxidation on NiPd Nanoparticles in Alkaline Media: Effect of pH and Concentration. <i>ECS Transactions</i> , 2013, 50, 1897-1906.	0.3	6
132	Field study comparing the effect of hydraulic mixing on septic tank performance and sludge accumulation. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 521-534.	1.2	6
133	Solar thermochemical H ₂ production via MnSO ₄ /MnO water splitting cycle: Thermodynamic equilibrium and efficiency analysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10324-10333.	3.8	6
134	High Purity/Recovery Separation of Propylene from Propyne Using Anion Pillared Metal-Organic Framework: Application of Vacuum Swing Adsorption (VSA). <i>Energies</i> , 2021, 14, 609.	1.6	6
135	Spectral and Structural Properties of High-Quality Reduced Graphene Oxide Produced via a Simple Approach Using Tetraethylenepentamine. <i>Nanomaterials</i> , 2022, 12, 1240.	1.9	6
136	Treatment Technologies for Cooling Water Blowdown: A Critical Review. <i>Sustainability</i> , 2022, 14, 376.	1.6	6
137	Pesticides and Herbicides. <i>Water Environment Research</i> , 2004, 76, 1775-1856.	1.3	5
138	Ozone treatment for the degradation of resin and unsaturated fatty acids at low temperatures. <i>Journal of Environmental Engineering and Science</i> , 2006, 5, S95-S102.	0.3	5
139	Utilizing environmentally friendly hyperbranched polyglycerol polymers to separate gasoline from deionized water. , 2020, 10, 759-770.		5
140	Ni-based nanocomposite material as a highly efficient catalyst for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4691-4698.	3.8	5
141	Nickel/Cobalt nanoparticles for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11369-11377.	3.8	5
142	Roadmap toward energy-positive upfront nitrogen removal process in baseload LNG plant. <i>International Journal of Energy Research</i> , 2022, 46, 20556-20572.	2.2	5
143	Kinetics of reactive absorption of CO ₂ using aqueous blend of potassium carbonate, ethylaminoethanol, and N-methyl-2-Pyrrolidone (APCEN solvent). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 89, 191-197.	2.7	3
144	Evaluation of redox performance of silver and transition metal-doped ternary ceria oxides for thermochemical splitting of CO ₂ . <i>International Journal of Energy Research</i> , 2019, 43, 3616-3627.	2.2	3

#	ARTICLE	IF	CITATIONS
145	Humidification–Dehumidification (HDH) Desalination and Other Volume Reduction Techniques for Produced Water Treatment. <i>Water (Switzerland)</i> , 2022, 14, 60.	1.2	3
146	A systematic approach for design and simulation of monoethylene glycol (MEG) recovery in oil and gas industry. <i>International Journal of Energy Research</i> , 2020, 44, 12363-12375.	2.2	2
147	Effective Separation of Prime Olefins from Gas Stream Using Anion Pillared Metal Organic Frameworks: Ideal Adsorbed Solution Theory Studies, Cyclic Application and Stability. <i>Catalysts</i> , 2021, 11, 510.	1.6	2
148	Catalytic Reduction of CO ₂ into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. <i>MRS Advances</i> , 2017, 2, 3389-3395.	0.5	1
149	Solar Energy Storage via Thermochemical Metal Oxide/Metal Sulfate Water Splitting Cycle. <i>MRS Advances</i> , 2018, 3, 1341-1346.	0.5	1
150	Design, optimization and economic analysis of a monoethylene glycol recovery process: salt precipitation and vacuum operation. <i>International Journal of Energy Research</i> , 2020, 44, 12592-12601.	2.2	1
151	A solar thermochemical praseodymium sesquioxide assisted CO_2 splitting cycle. <i>International Journal of Energy Research</i> , 2021, 45, 9999-10011.	2.2	1
152	Guest editorial for the special issue energy research for better sustainability. <i>International Journal of Energy Research</i> , 2020, 44, 12208-12208.	2.2	0
153	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO–TiO ₂ Nano-catalysts: Characterization and Kinetic Behaviors. <i>Waste and Biomass Valorization</i> , 2021, 12, 3075-3089.	1.8	0