Given Names Deactivated Family Name Deactivated

List of Publications by Citations

148 papers	2,326 citations	28 h-index	39 g-index
155 ext. papers	3,389 ext. citations	5.8 avg, IF	6.54 L-index

#	Paper	IF	Citations
148	Combustion synthesis of bifunctional LaMO3 (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. *Journal of Electroanalytical Chemistry*, **2018**, 809, 22-30	4.1	76
147	A decade of ceria based solar thermochemical H2O/CO2 splitting cycle. *International Journal of Hydrogen Energy*, **2019**, 44, 34-60	6.7	76
146	Impact of CO concentration and ambient conditions on microalgal growth and nutrient removal from wastewater by a photobioreactor. *Science of the Total Environment*, **2019**, 662, 662-671	10.2	72
145	Ammonia electro-oxidation on alloyed PtIr nanoparticles of well-defined size. *International Journal of Hydrogen Energy*, **2013**, 38, 2455-2463	6.7	59
144	Environmental impacts of solar photovoltaic systems: A critical review of recent progress and future outlook. *Science of the Total Environment*, **2021**, 759, 143528	10.2	59
143	Bioremediation and nutrient removal from wastewater by Chlorella vulgaris. *Ecological Engineering*, **2018**, 110, 1-7	3.9	58
142	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. *Energies*, **2016**, 9, 316	3.1	52
141	Solar thermochemical ZnO/ZnSO4 water splitting cycle for hydrogen production. *International Journal of Hydrogen Energy*, **2017**, 42, 23474-23483	6.7	49
140	Assessment of Ce Zr Hf O2 based oxides as potential solar thermochemical CO2 splitting materials. *Ceramics International*, **2016**, 42, 9354-9362	5.1	47
139	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. *International Journal of Hydrogen Energy*, **2017**, 42, 23416-23426	6.7	47
138	Intergraded wastewater treatment and carbon bio-fixation from flue gases using Spirulina platensis and mixed algal culture. *Chemical Engineering Research and Design*, **2019**, 124, 240-250	5.5	46
137	Transition metal doped ceria for solar thermochemical fuel production. *Solar Energy*, **2018**, 172, 204-211	6.8	44
136	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 034702	2.5	42
135	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. *International Journal of Hydrogen Energy*, **2017**, 42, 23464-23473	6.7	41
134	Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). *Science of the Total Environment*, **2019**, 693, 133425	10.2	40
133	Solar Thermochemical Hydrogen Production via Terbium Oxide Based Redox Reactions. *International Journal of Photoenergy*, **2016**, 2016, 1-9	2.1	40
132	Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO2 splitting reaction. *Ceramics International*, **2017**, 43, 5150-5155	5.1	39

131	Degradation of cyanobacteria anatoxin-a by advanced oxidation processes. *Separation and Purification Technology*, **2007**, 57, 85-93	8.3	39
130	Prediction of biogas production from chemically treated co-digested agricultural waste using artificial neural network. *Fuel*, **2020**, 280, 118573	7.1	38
129	Sol□gel derived CeO2□Fe2O3 nanoparticles: Synthesis, characterization and solar thermochemical application. *Ceramics International*, **2016**, 42, 6728-6737	5.1	37
128	Techno-Economic Investigation of an Integrated Boiler□Solar Water Heating/Cooling System: A Case Study. *Energies*, **2021**, 14, 1	3.1	35
127	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. *International Journal of Hydrogen Energy*, **2020**, 45, 10398-10408	6.7	35
126	Impact of photo-oxidation technology on the aqueous solutions of nitrobenzene: Degradation efficiency and biodegradability enhancement. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 179, 184-192	4.7	34
125	Enhancing the production of biogas through anaerobic co-digestion of agricultural waste and chemical pre-treatments. *Chemosphere*, **2020**, 255, 126805	8.4	33
124	Photocatalytic degradation of Penicillin G in aqueous solutions: Kinetic, degradation pathway, and microbioassays assessment. *Journal of Hazardous Materials*, **2022**, 421, 126719	12.8	33
123	Oxidation of resin and fatty acids by ozone: kinetics and toxicity study. *Water Research*, **2006**, 40, 392-400	12.5	32
122	Enhancement of biogas production from agricultural wastes via pre-treatment with advanced oxidation processes. *Fuel*, **2019**, 253, 964-974	7.1	30
121	Electrochemical behavior of ammonia on Ni98Pd2 nano-structured catalyst. *International Journal of Hydrogen Energy*, **2014**, 39, 41-48	6.7	29
120	Solar co-production of samarium and syngas via methanothermal reduction of samarium sesquioxide. *Energy Conversion and Management*, **2016**, 112, 413-422	10.6	28
119	Propylene oxide assisted sol□gel synthesis of zinc ferrite nanoparticles for solar fuel production. *Ceramics International*, **2016**, 42, 2431-2438	5.1	28
118	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. *Solar Energy*, **2018**, 172, 128-140	6.8	28
117	Data mining for pesticide decontamination using heterogeneous photocatalytic processes. *Chemosphere*, **2021**, 270, 129449	8.4	28
116	CO2Capture Using Aqueous Potassium Carbonate Promoted by Ethylaminoethanol: A Kinetic Study. *Industrial & Engineering Chemistry Research*, **2016**, 55, 5238-5246	3.9	28
115	Polymeric adsorbents for oil removal from water. *Chemosphere*, **2019**, 233, 809-817	8.4	27
114	Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. *International Journal of Hydrogen Energy*, **2019**, 44, 436-445	6.7	27

113	Intermediate ozonation to enhance biogas production in batch and continuous systems using animal dung and agricultural waste. *International Biodeterioration and Biodegradation*, **2017**, 119, 176-187	4.8	25
112	Application of FeO magnetite nanoparticles grafted in silica (SiO) for oil recovery from oil in water emulsions. *Chemosphere*, **2021**, 265, 129054	8.4	25
111	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. *Chemosphere*, **2019**, 233, 234-244	8.4	23
110	Kinetic study of electro-Fenton oxidation of azo dyes on boron-doped diamond electrode. *Environmental Technology (United Kingdom)*, **2013**, 34, 1473-9	2.6	23
109	Graphene-based nanomaterial for desalination of water: A systematic review and meta-analysis. *Food and Chemical Toxicology*, **2021**, 148, 111964	4.7	23
108	A technoeconomic assessment of microalgal culture technology implementation for combined wastewater treatment and CO2 mitigation in the Arabian Gulf. *Chemical Engineering Research and Design*, **2019**, 127, 90-102	5.5	22
107	Optimizing nutrient removal of moving bed biofilm reactor process using response surface methodology. *Bioresource Technology*, **2020**, 305, 123059	11	22
106	Prediction the performance of multistage moving bed biological process using artificial neural network (ANN). *Science of the Total Environment*, **2020**, 744, 140854	10.2	22
105	Combustion synthesized A0.5Sr0.5MnO3-□perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO2. *Applied Surface Science*, **2019**, 489, 80-91	6.7	21
104	Photocatalytic conversion of CO2 and H2O to useful fuels by nanostructured composite catalysis. *Applied Surface Science*, **2019**, 483, 363-372	6.7	21
103	Bio-sorption of toxic metals from industrial wastewater by algae strains Spirulina platensis and Chlorella vulgaris: Application of isotherm, kinetic models and process optimization. *Science of the Total Environment*, **2021**, 755, 142654	10.2	21
102	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. *Bioresource Technology*, **2019**, 281, 250-259	11	20
101	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. *MRS Advances*, **2017**, 2, 3365-3370	0.7	19
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99	Modeling and simulation of fertilizer drawn forward osmosis process using Aspen Plus-MATLAB model. *Science of the Total Environment*, **2020**, 700, 134461	10.2	19
98	Decontamination of toxic Malathion pesticide in aqueous solutions by Fenton-based processes: Degradation pathway, toxicity assessment and health risk assessment. *Journal of Hazardous Materials*, **2022**, 423, 127016	12.8	19
97	Algal cells harvesting using cost-effective magnetic nano-particles. *Science of the Total Environment* , **2020**, 720, 137621	10.2	18
96	Kinetic modeling of microalgae growth and CO bio-fixation using central composite design statistical approach. *Science of the Total Environment*, **2020**, 720, 137594	10.2	17

95	Metal-Organic Frameworks as a Platform for CO2 Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO2. *Catalysts*, **2020**, 10, 1293	4	17
94	Graphene-based materials for metronidazole degradation: A comprehensive review. *Chemosphere*, **2022**, 286, 131727	8.4	17
93	A Review on the Treatment of Petroleum Refinery Wastewater Using Advanced Oxidation Processes. *Catalysts*, **2021**, 11, 782	4	16
92	Electrospun Al2O3 hydrophobic functionalized membranes for heavy metal recovery using direct contact membrane distillation. *International Journal of Energy Research*, **2021**, 45, 8151-8167	4.5	16
91	Assessment of algae-based wastewater treatment in hot climate region: Treatment performance and kinetics. *Chemical Engineering Research and Design*, **2020**, 141, 140-149	5.5	15
90	Treatment of septic tank effluent using moving-bed biological reactor: kinetic and biofilm morphology. *International Journal of Environmental Science and Technology*, **2016**, 13, 1917-1932	3.3	14
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84	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. *Science of the Total Environment*, **2019**, 686, 90-96	10.2	12
83	Graphene-based membrane techniques for heavy metal removal: A critical review. *Environmental Technology and Innovation*, **2021**, 24, 101863	7	12
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81	Solid Sorbents as a Retrofit Technology for CO Removal from Natural Gas Under High Pressure and Temperature Conditions. *Scientific Reports*, **2020**, 10, 269	4.9	11
80	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO, CH, N, H or Mixtures of These Gases from Various Gas Streams. *Molecules*, **2020**, 25,	4.8	10
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78	Artificial Neural Networks for Predicting Hydrogen Production in Catalytic Dry Reforming: A Systematic Review. *Energies*, **2021**, 14, 2894	3.1	10

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71	Forecast of the outbreak of COVID-19 using artificial neural network: Case study Qatar, Spain, and Italy. *Results in Physics*, **2021**, 27, 104484	3.7	7
70	Enhanced oil recovery using hyperbranched polyglycerol polymer-coated silica nanoparticles. *Chemosphere*, **2021**, 285, 131295	8.4	7
69	Application of Li-, Mg-, Ba-, Sr-, Ca-, and Sn-doped ceria for solar-driven thermochemical conversion of carbon dioxide. *Journal of Materials Science*, **2020**, 55, 11797-11807	4.3	6
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54	Recent advances in MXene-based nanomaterials for desalination at water interfaces. *Environmental Research*, **2022**, 203, 111845	7.9	5
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46	Fabrication of titanium dioxide nanomaterial for implantable highly flexible composite bioelectrode for biosensing applications. *Chemosphere*, **2021**, 273, 129680	8.4	4
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41	A critical review of the development and demulsification processes applied for oil recovery from oil in water emulsions. *Chemosphere*, **2021**, 291, 133099	8.4	3
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39	Nickel/Cobalt nanoparticles for electrochemical production of hydrogen. *International Journal of Hydrogen Energy*, **2021**, 46, 11369-11377	6.7	3
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32	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. *Sustainability*, **2022**, 14, 499	3.6	2
31	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. *Sustainability*, **2022**, 14, 955	3.6	2
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22	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. *MRS Advances*, **2018**, 3, 1341-1346	0.7	1
21	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions.. *Bioresource Technology*, **2022**, 347, 126687	11	1
20	A global systematic review of the concentrations of Malathion in water matrices: Meta-analysis, and probabilistic risk assessment. *Chemosphere*, **2021**, 132789	8.4	1
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18	Effective Separation of Prime Olefins from Gas Stream Using Anion Pillared Metal Organic Frameworks: Ideal Adsorbed Solution Theory Studies, Cyclic Application and Stability. *Catalysts*, **2021**, 11, 510	4	1
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10	Potential Use of Treated Wastewater as Groundwater Recharge Using GIS Techniques and Modeling Tools in Dhuleil-Halabat Well-Field/Jordan. *Water (Switzerland)*, **2021**, 13, 1581	3	0
9	Simulation of steam gasification of halophyte biomass for syngas production using Aspen Plus . *Biomass Conversion and Biorefinery*,1	2.3	0
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7	An integrated framework of data-driven, metaheuristic, and mechanistic modeling approach for biomass pyrolysis. *Chemical Engineering Research and Design*, **2022**, 162, 337-345	5.5	0
6	State of charge estimation for a group of lithium-ion batteries using long short-term memory neural network. *Journal of Energy Storage*, **2022**, 52, 104761	7.8	0

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4	Guest editorial for the special issue energy research for better sustainability. *International Journal of Energy Research*, **2020**, 44, 12208-12208	4.5
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1	A solar thermochemical praseodymium sesquioxide assisted CO2 splitting cycle. *International Journal of Energy Research*, **2021**, 45, 9999-10011	4.5