

# Fares Almomani

## 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.

148  
papers

2,503  
citations

29  
h-index

41  
g-index

153  
ext. papers

3,590  
ext. citations

5.9  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
148	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. <i>Sustainability</i> , <b>2022</b> , 14, 499	3.6	2
147	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. <i>Sustainability</i> , <b>2022</b> , 14, 955	3.6	2
146	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions.. <i>Bioresource Technology</i> , <b>2022</b> , 347, 126687	11	1
145	Graphene derivatives in bioplastic: A comprehensive review of properties and future perspectives. <i>Chemosphere</i> , <b>2022</b> , 286, 131892	8.4	5
144	Photocatalytic degradation of Penicillin G in aqueous solutions: Kinetic, degradation pathway, and microbioassays assessment. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126719	12.8	33
143	Graphene-based materials for metronidazole degradation: A comprehensive review. <i>Chemosphere</i> , <b>2022</b> , 286, 131727	8.4	17
142	Health risk assessment induced by trace toxic metals in tap drinking water: Condorcet principle development. <i>Chemosphere</i> , <b>2022</b> , 286, 131821	8.4	5
141	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> , <b>2022</b> , 423, 127016	12.8	19
140	Recent advances in MXene-based nanomaterials for desalination at water interfaces. <i>Environmental Research</i> , <b>2022</b> , 203, 111845	7.9	5
139	A comprehensive review on MXenes as new nanomaterials for degradation of hazardous pollutants: Deployment as heterogeneous sonocatalysis. <i>Chemosphere</i> , <b>2022</b> , 287, 132387	8.4	5
138	A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery. <i>Chemosphere</i> , <b>2022</b> , 286, 131730	8.4	5
137	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> , <b>2022</b> , 286, 131479	8.4	2
136	HumidificationDehumidification (HDH) Desalination and Other Volume Reduction Techniques for Produced Water Treatment. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 60	3	0
135	Treatment Technologies for Cooling Water Blowdown: A Critical Review. <i>Sustainability</i> , <b>2022</b> , 14, 376	3.6	1
134	An integrated framework of data-driven, metaheuristic, and mechanistic modeling approach for biomass pyrolysis. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 162, 337-345	5.5	0
133	The novel advancements of nanomaterials in biofuel cells with a focus on electrodes applications. <i>Fuel</i> , <b>2022</b> , 322, 124237	7.1	1
132	State of charge estimation for a group of lithium-ion batteries using long short-term memory neural network. <i>Journal of Energy Storage</i> , <b>2022</b> , 52, 104761	7.8	0

131	Recent Progress on Nanomaterial-Based Membranes for Water Treatment.. <i>Membranes</i> , <b>2021</b> , 11,	3.8	5
130	A global systematic review of the concentrations of Malathion in water matrices: Meta-analysis, and probabilistic risk assessment. <i>Chemosphere</i> , <b>2021</b> , 132789	8.4	1
129	A New Sustainable and Novel Hybrid Solar Chimney Power Plant Design for Power Generation and Seawater Desalination. <i>Sustainability</i> , <b>2021</b> , 13, 12100	3.6	3
128	Integration of Solar Chimney Power Plant with Photovoltaic for Co-Cooling, Power Production, and Water Desalination. <i>Processes</i> , <b>2021</b> , 9, 2155	2.9	1
127	A critical review of the development and demulsification processes applied for oil recovery from oil in water emulsions. <i>Chemosphere</i> , <b>2021</b> , 291, 133099	8.4	3
126	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , <b>2021</b> , 291, 133036	8.4	1
125	Evaluation of the efficiency of ionic liquids in the demulsification of oil-in-water emulsions. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 102003	7	3
124	Techno-Economic Investigation of an Integrated BoilerSolar Water Heating/Cooling System: A Case Study. <i>Energies</i> , <b>2021</b> , 14, 1	3.1	35
123	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , <b>2021</b> , 288, 132559	8.4	9
122	Innovative BPPO Anion Exchange Membranes Formulation Using Diffusion Dialysis-Enhanced Acid Regeneration System. <i>Membranes</i> , <b>2021</b> , 11,	3.8	2
121	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> , <b>2021</b> , 11, 510	4	1
120	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> , <b>2021</b> , 223, 120018	7.9	6
119	Artificial Neural Networks for Predicting Hydrogen Production in Catalytic Dry Reforming: A Systematic Review. <i>Energies</i> , <b>2021</b> , 14, 2894	3.1	10
118	Data mining for pesticide decontamination using heterogeneous photocatalytic processes. <i>Chemosphere</i> , <b>2021</b> , 270, 129449	8.4	28
117	Study on Boil-off Gas (BOG) Minimization and Recovery Strategies from Actual Baseload LNG Export Terminal: Towards Sustainable LNG Chains. <i>Energies</i> , <b>2021</b> , 14, 3478	3.1	5
116	Fabrication of titanium dioxide nanomaterial for implantable highly flexible composite bioelectrode for biosensing applications. <i>Chemosphere</i> , <b>2021</b> , 273, 129680	8.4	4
115	A Review on the Treatment of Petroleum Refinery Wastewater Using Advanced Oxidation Processes. <i>Catalysts</i> , <b>2021</b> , 11, 782	4	16
114	Potential Use of Treated Wastewater as Groundwater Recharge Using GIS Techniques and Modeling Tools in Dhuleil-Halabat Well-Field/Jordan. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1581	3	0

113	Prospective of Upfront Nitrogen (N <sub>2</sub> ) Removal in LNG Plants: Technical Communication. <i>Energies</i> , <b>2021</b> , 14, 3616	3.1	1
112	Ni-based nanocomposite material as a highly efficient catalyst for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4691-4698	6.7	2
111	Electrochemical oxidation of ammonia (NH <sub>4</sub> <sup>+</sup> /NH <sub>3</sub> ) ON synthesized nickel-cobalt oxide catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4678-4690	6.7	9
110	Nickel/Cobalt nanoparticles for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11369-11377	6.7	3
109	Thermochemical splitting of CO <sub>2</sub> using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , <b>2021</b> , 285, 119154	7.1	4
108	Electrospun Al <sub>2</sub> O <sub>3</sub> hydrophobic functionalized membranes for heavy metal recovery using direct contact membrane distillation. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8151-8167	4.5	16
107	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> , <b>2021</b> , 755, 142654	10.2	21
106	Application of FeO magnetite nanoparticles grafted in silica (SiO) for oil recovery from oil in water emulsions. <i>Chemosphere</i> , <b>2021</b> , 265, 129054	8.4	25
105	Environmental impacts of solar photovoltaic systems: A critical review of recent progress and future outlook. <i>Science of the Total Environment</i> , <b>2021</b> , 759, 143528	10.2	59
104	Solar photo-catalytic production of hydrogen by irradiation of cobalt co-doped TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12068-12081	6.7	5
103	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO/TiO <sub>2</sub> Nano-catalysts: Characterization and Kinetic Behaviors. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 3075-3089	3.3	9
102	Treatment of waste gas contaminated with dichloromethane using photocatalytic oxidation, biodegradation and their combinations. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 123735	12.8	10
101	High Purity/Recovery Separation of Propylene from Propyne Using Anion Pillared Metal-Organic Framework: Application of Vacuum Swing Adsorption (VSA). <i>Energies</i> , <b>2021</b> , 14, 609	3.1	2
100	Solar-driven hydrogen production from a water-splitting cycle based on carbon-TiO <sub>2</sub> nano-tubes. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 3294-3294	6.7	10
99	Graphene-based nanomaterial for desalination of water: A systematic review and meta-analysis. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 148, 111964	4.7	23
98	A solar thermochemical praseodymium sesquioxide assisted CO <sub>2</sub> splitting cycle. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 9999-10011	4.5	
97	Probing the effect of various water fractions on methane (CH <sub>4</sub> ) hydrate phase equilibria and hydrate inhibition performance of amino acid L-proline. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 333, 115888	6	0
96	Forecast of the outbreak of COVID-19 using artificial neural network: Case study Qatar, Spain, and Italy. <i>Results in Physics</i> , <b>2021</b> , 27, 104484	3.7	7

95	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> , <b>2021</b> , 203, 108591	4.4	9
94	Sustainable removal of copper from wastewater using chemically treated bio-sorbent: Characterization, mechanism and process kinetics. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101555	7	6
93	Functionalization of silica-coated magnetic nanoparticles as powerful demulsifier to recover oil from oil-in-water emulsion. <i>Chemosphere</i> , <b>2021</b> , 279, 130360	8.4	6
92	An Innovative Design of a Solar Double-Chimney Power Plant for Electricity Generation. <i>Energies</i> , <b>2021</b> , 14, 6235	3.1	2
91	Valorization and optimization of agro-industrial orange waste for the production of enzyme by halophilic <i>Streptomyces</i> sp. <i>Environmental Research</i> , <b>2021</b> , 201, 111494	7.9	3
90	A new insight into the separation of oil from oil/water emulsion by FeO-SiO nanoparticles. <i>Environmental Research</i> , <b>2021</b> , 202, 111645	7.9	5
89	Graphene-based membrane techniques for heavy metal removal: A critical review. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101863	7	12
88	Enhanced oil recovery using hyperbranched polyglycerol polymer-coated silica nanoparticles. <i>Chemosphere</i> , <b>2021</b> , 285, 131295	8.4	7
87	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil-Water Separation Processes.. <i>Nanomaterials</i> , <b>2021</b> , 12,	5.4	3
86	Guest editorial for the special issue energy research for better sustainability. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12208-12208	4.5	
85	Design, optimization and economic analysis of a monoethylene glycol recovery process: salt precipitation and vacuum operation. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12592-12601	4.5	0
84	Assessment of algae-based wastewater treatment in hot climate region: Treatment performance and kinetics. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 141, 140-149	5.5	15
83	Solar oxidation of toluene over Co doped nano-catalyst. <i>Chemosphere</i> , <b>2020</b> , 255, 126878	8.4	11
82	Characterization of polysulfone/diisopropylamine 1-alkyl-3-methylimidazolium ionic liquid membranes: high pressure gas separation applications <b>2020</b> , 10, 795-808		8
81	Utilizing environmentally friendly hyperbranched polyglycerol polymers to separate gasoline from deionized water <b>2020</b> , 10, 759-770		5
80	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> , <b>2020</b> , 55, 11797-11807	4.3	6
79	Algal cells harvesting using cost-effective magnetic nano-particles. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137621	10.2	18
78	Ni incorporation in MgFe <sub>2</sub> O <sub>4</sub> for improved CO <sub>2</sub> -splitting activity during solar fuel production. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 11086-11094	4.3	3

77	A systematic approach for design and simulation of monoethylene glycol (MEG) recovery in oil and gas industry. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12363-12375	4.5	2
76	Optimizing nutrient removal of moving bed biofilm reactor process using response surface methodology. <i>Bioresource Technology</i> , <b>2020</b> , 305, 123059	11	22
75	Kinetic modeling of microalgae growth and CO bio-fixation using central composite design statistical approach. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137594	10.2	17
74	Solid Sorbents as a Retrofit Technology for CO Removal from Natural Gas Under High Pressure and Temperature Conditions. <i>Scientific Reports</i> , <b>2020</b> , 10, 269	4.9	11
73	Enhancing the production of biogas through anaerobic co-digestion of agricultural waste and chemical pre-treatments. <i>Chemosphere</i> , <b>2020</b> , 255, 126805	8.4	33
72	Co-precipitation synthesized nanostructured Ce <sub>0.9</sub> Ln <sub>0.05</sub> Ag <sub>0.05</sub> O <sub>2</sub> materials for solar thermochemical conversion of CO <sub>2</sub> into fuels. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 9748-9761	4.3	3
71	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10398-10408	6.7	35
70	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). <i>Applied Surface Science</i> , <b>2020</b> , 506, 144924	6.7	94
69	Thermochemical splitting of CO <sub>2</sub> using solution combustion synthesized LaMO <sub>3</sub> (where, M=Co, Fe, Mn, Ni, Al, Cr, Sr). <i>Applied Surface Science</i> , <b>2020</b> , 509, 144908	6.7	2
68	Thermodynamic analysis of solar-driven chemical looping steam methane reforming over Cr <sub>2</sub> O <sub>3</sub> /Cr redox pair. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10370-10380	6.7	6
67	An overview on trace CO removal by advanced physisorbent materials. <i>Journal of Environmental Management</i> , <b>2020</b> , 255, 109874	7.9	14
66	Paper Mill Sludge as a Source of Sugars for Use in the Production of Bioethanol and Isoprene. <i>Energies</i> , <b>2020</b> , 13, 4662	3.1	5
65	Effect of Membrane Fouling on Fertilizer-Drawn Forward Osmosis Desalination Performance. <i>Membranes</i> , <b>2020</b> , 10,	3.8	4
64	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO, CH <sub>4</sub> , N <sub>2</sub> , H <sub>2</sub> or Mixtures of These Gases from Various Gas Streams. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
63	Prediction the performance of multistage moving bed biological process using artificial neural network (ANN). <i>Science of the Total Environment</i> , <b>2020</b> , 744, 140854	10.2	22
62	Performance analysis of hybrid solar chimney power plant for power production and seawater desalination: A sustainable approach. <i>International Journal of Energy Research</i> , <b>2020</b> , 45, 17327	4.5	13
61	Prediction of biogas production from chemically treated co-digested agricultural waste using artificial neural network. <i>Fuel</i> , <b>2020</b> , 280, 118573	7.1	38
60	A bioassimilation and bioaccumulation model for the removal of heavy metals from wastewater using algae: New strategy. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 144, 52-64	5.5	19

59	Metal-Organic Frameworks as a Platform for CO <sub>2</sub> Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO <sub>2</sub> . <i>Catalysts</i> , <b>2020</b> , 10, 1293	4	17
58	Removal of copper ions from aqueous solution using NaOH-treated rice husk. <i>Emergent Materials</i> , <b>2020</b> , 3, 857-870	3.5	10
57	<i>P. putida</i> as biosorbent for the remediation of cobalt and phenol from industrial waste wastewaters. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101148	7	14
56	Solar thermochemical H <sub>2</sub> production via MnSO <sub>4</sub> /MnO water splitting cycle: Thermodynamic equilibrium and efficiency analysis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10324-10333	6.7	2
55	Hydrogen production via solar driven thermochemical cerium oxide / cerium sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10381-10390	6.7	7
54	Doping amino acids with classical gas hydrate inhibitors to facilitate the hydrate inhibition effect at low dosages <b>2020</b> , 10, 783-794		8
53	Thermochemical splitting of CO <sub>2</sub> using Co-precipitation synthesized Ce <sub>0.75</sub> Zr <sub>0.2</sub> M <sub>0.05</sub> O <sub>2-<math>\delta</math></sub> (M = Cr, Mn, Fe, CO, Ni, Zn) materials. <i>Fuel</i> , <b>2019</b> , 256, 115834	7.1	8
52	Thermocatalytic splitting of CO <sub>2</sub> using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , <b>2019</b> , 257, 115965	7.1	13
51	Impact of CO concentration and ambient conditions on microalgal growth and nutrient removal from wastewater by a photobioreactor. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 662-671	10.2	72
50	Sol-gel synthesized Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> for thermochemical conversion of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 693-700	6.7	9
49	Combustion synthesized A <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3-<math>\delta</math></sub> perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 80-91	6.7	21
48	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. <i>Chemosphere</i> , <b>2019</b> , 233, 234-244	8.4	23
47	Polymeric adsorbents for oil removal from water. <i>Chemosphere</i> , <b>2019</b> , 233, 809-817	8.4	27
46	Photocatalytic conversion of CO <sub>2</sub> and H <sub>2</sub> O to useful fuels by nanostructured composite catalysis. <i>Applied Surface Science</i> , <b>2019</b> , 483, 363-372	6.7	21
45	Evaluation of redox performance of silver and transition metal-doped ternary ceria oxides for thermochemical splitting of CO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 3616-3627	4.5	2
44	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> , <b>2019</b> , 281, 250-259	11	20
43	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> , <b>2019</b> , 124, 240-250	5.5	46
42	A decade of ceria based solar thermochemical H <sub>2</sub> O/CO <sub>2</sub> splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 34-60	6.7	76



41	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> , <b>2019</b> , 693, 133425	10.2	40
40	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. <i>Science of the Total Environment</i> , <b>2019</b> , 686, 90-96	10.2	12
39	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> , <b>2019</b> , 44, 436-445	6.7	27
38	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , <b>2018</b> , 3, 1341-1346	0.7	1
37	Combustion synthesis of bifunctional LaMO <sub>3</sub> (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 809, 22-30	4.1	76
36	Bioremediation and nutrient removal from wastewater by <i>Chlorella vulgaris</i> . <i>Ecological Engineering</i> , <b>2018</b> , 110, 1-7	3.9	58
35	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , <b>2018</b> , 172, 128-140	6.8	28
34	Kinetics of reactive absorption of CO <sub>2</sub> using aqueous blend of potassium carbonate, ethylaminoethanol, and N-methyl-2-Pyrrolidone (APCEN solvent). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 89, 191-197	5.3	3
33	Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO <sub>2</sub> splitting reaction. <i>Ceramics International</i> , <b>2017</b> , 43, 5150-5155	5.1	39
32	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23464-23473	6.7	41
31	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , <b>2017</b> , 2, 3365-3370	0.7	19
30	Catalytic Reduction of CO <sub>2</sub> into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. <i>MRS Advances</i> , <b>2017</b> , 2, 3389-3395	0.7	
29	Solar thermochemical ZnO/ZnSO <sub>4</sub> water splitting cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23474-23483	6.7	49
28	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23416-23426	6.7	47
27	Intermediate ozonation to enhance biogas production in batch and continuous systems using animal dung and agricultural waste. <i>International Biodeterioration and Biodegradation</i> , <b>2017</b> , 119, 176-187	4.8	25
26	Treatment of septic tank effluent using moving-bed biological reactor: kinetic and biofilm morphology. <i>International Journal of Environmental Science and Technology</i> , <b>2016</b> , 13, 1917-1932	3.3	14
25	Sol-gel derived CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoparticles: Synthesis, characterization and solar thermochemical application. <i>Ceramics International</i> , <b>2016</b> , 42, 6728-6737	5.1	37
24	Solar co-production of samarium and syngas via methanothermal reduction of samarium sesquioxide. <i>Energy Conversion and Management</i> , <b>2016</b> , 112, 413-422	10.6	28



23	Assessment of Ce Zr Hf O <sub>2</sub> based oxides as potential solar thermochemical CO <sub>2</sub> splitting materials. <i>Ceramics International</i> , <b>2016</b> , 42, 9354-9362	5.1	47
22	Field study comparing the effect of hydraulic mixing on septic tank performance and sludge accumulation. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 521-34	2.6	4
21	Propylene oxide assisted sol-gel synthesis of zinc ferrite nanoparticles for solar fuel production. <i>Ceramics International</i> , <b>2016</b> , 42, 2431-2438	5.1	28
20	Solar Thermochemical Hydrogen Production via Terbium Oxide Based Redox Reactions. <i>International Journal of Photoenergy</i> , <b>2016</b> , 2016, 1-9	2.1	40
19	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. <i>Energies</i> , <b>2016</b> , 9, 316	3.1	52
18	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 034702	2.5	42
17	CO <sub>2</sub> Capture Using Aqueous Potassium Carbonate Promoted by Ethylaminoethanol: A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5238-5246	3.9	28
16	Field study of moving bed biofilm reactor technology for post-treatment of wastewater lagoon effluent at 1 degree C. <i>Environmental Technology (United Kingdom)</i> , <b>2014</b> , 35, 1596-604	2.6	41
15	Electrochemical behavior of ammonia on Ni <sub>98</sub> Pd <sub>2</sub> nano-structured catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 41-48	6.7	29
14	Ammonia electro-oxidation on alloyed PtIr nanoparticles of well-defined size. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2455-2463	6.7	59
13	Kinetic study of electro-Fenton oxidation of azo dyes on boron-doped diamond electrode. <i>Environmental Technology (United Kingdom)</i> , <b>2013</b> , 34, 1473-9	2.6	23
12	Ammonia Electrooxidation on NiPd Nanoparticles in Alkaline Media: Effect of pH and Concentration. <i>ECS Transactions</i> , <b>2013</b> , 50, 1897-1906	1	4
11	Electro-oxidation of two reactive azo dyes on boron-doped diamond electrode. <i>Water Science and Technology</i> , <b>2012</b> , 66, 465-71	2.2	6
10	Solar/UV-induced photocatalytic degradation of volatile toluene. <i>Environmental Technology (United Kingdom)</i> , <b>2009</b> , 30, 1085-93	2.6	13
9	Impact of Fenton and ozone on oxidation of wastewater containing nitroaromatic compounds. <i>Journal of Environmental Sciences</i> , <b>2008</b> , 20, 675-82	6.4	31
8	Degradation of cyanobacteria toxin by advanced oxidation processes. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 150, 238-49	12.8	85
7	Degradation of cyanobacteria anatoxin-a by advanced oxidation processes. <i>Separation and Purification Technology</i> , <b>2007</b> , 57, 85-93	8.3	39
6	Treatment of Air Containing Volatile Organic Carbon: Elimination and Post Treatment. <i>Environmental Engineering Science</i> , <b>2007</b> , 24, 1038-1047	2	8

5	Ozone treatment for the degradation of resin and unsaturated fatty acids at low temperatures. <i>Journal of Environmental Engineering and Science</i> , <b>2006</b> , 5, S95-S102	0.8	4
4	Biodegradability Enhancement of 2,4-Dichlorophenol Aqueous Solution by Means of Photo-Fenton Reaction. <i>Environmental Engineering Science</i> , <b>2006</b> , 23, 722-733	2	5
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1	Pesticides and Herbicides. <i>Water Environment Research</i> , <b>2004</b> , 76, 1775-1856	2.8	5