

# Ahmad Zuhairi Abdullah

## List of Publications by Year in descending order

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223  
papers

12,502  
citations

18482

62  
h-index

28297

105  
g-index

229  
all docs

229  
docs citations

229  
times ranked

13819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of chitosan and its derivatives as adsorbents for dye removal from water and wastewater: A review. <i>Carbohydrate Polymers</i> , 2014, 113, 115-130.	10.2	844
2	Adsorption of dyes by nanomaterials: Recent developments and adsorption mechanisms. <i>Separation and Purification Technology</i> , 2015, 150, 229-242.	7.9	582
3	Catalytic Technology for Carbon Dioxide Reforming of Methane to Synthesis Gas. <i>ChemCatChem</i> , 2009, 1, 192-208.	3.7	485
4	Critical review on the current scenario and significance of crude glycerol resulting from biodiesel industry towards more sustainable renewable energy industry. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2671-2686.	16.4	446
5	Recent progress on innovative and potential technologies for glycerol transformation into fuel additives: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 987-1000.	16.4	385
6	Degradation of wastewaters containing organic dyes photocatalysed by zinc oxide: a review. <i>Desalination and Water Treatment</i> , 2012, 41, 131-169.	1.0	359
7	Impacts of trace element supplementation on the performance of anaerobic digestion process: A critical review. <i>Bioresource Technology</i> , 2016, 209, 369-379.	9.6	308
8	Review on sonochemical methods in the presence of catalysts and chemical additives for treatment of organic pollutants in wastewater. <i>Desalination</i> , 2011, 277, 1-14.	8.2	285
9	Ultrasonic-assisted biodiesel production process from palm oil using alkaline earth metal oxides as the heterogeneous catalysts. <i>Fuel</i> , 2010, 89, 1818-1825.	6.4	263
10	Life cycle assessment of palm biodiesel: Revealing facts and benefits for sustainability. <i>Applied Energy</i> , 2009, 86, S189-S196.	10.1	247
11	Treatment of pulp and paper mill wastewater by polyacrylamide (PAM) in polymer induced flocculation. <i>Journal of Hazardous Materials</i> , 2006, 135, 378-388.	12.4	220
12	Utilization of greenhouse gases through carbon dioxide reforming of methane over Ni <sup>2+</sup> /Co/MgO <sup>2+</sup> /ZrO <sub>2</sub> : Preparation, characterization and activity studies. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 365-377.	20.2	192
13	Current Status of Textile Industry Wastewater Management and Research Progress in Malaysia: A Review. <i>Clean - Soil, Air, Water</i> , 2013, 41, 751-764.	1.1	187
14	Process modeling and analysis of palm oil mill effluent treatment in an up-flow anaerobic sludge fixed film bioreactor using response surface methodology (RSM). <i>Water Research</i> , 2006, 40, 3193-3208.	11.3	186
15	Challenges in biodiesel industry with regards to feedstock, environmental, social and sustainability issues: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 208-223.	16.4	178
16	Recent development in catalytic technologies for methanol synthesis from renewable sources: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 508-518.	16.4	175
17	A comprehensive review on sonocatalytic, photocatalytic, and sonophotocatalytic processes for the degradation of antibiotics in water: Synergistic mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , 2021, 413, 127412.	12.7	173
18	Deoxygenation of fatty acid to produce diesel-like hydrocarbons: A review of process conditions, reaction kinetics and mechanism. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1223-1233.	16.4	154

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19	Current status and policies on biodiesel industry in Malaysia as the world's leading producer of palm oil. <i>Energy Policy</i> , 2009, 37, 5440-5448.	8.8	147
20	Fe <sup>3+</sup> doped TiO <sub>2</sub> nanotubes for combined adsorption and sonocatalytic degradation of real textile wastewater. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 473-481.	20.2	139
21	Improvement of alum and PACl coagulation by polyacrylamides (PAMs) for the treatment of pulp and paper mill wastewater. <i>Chemical Engineering Journal</i> , 2008, 137, 510-517.	12.7	136
22	Dealing with the surplus of glycerol production from biodiesel industry through catalytic upgrading to polyglycerols and other value-added products. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 327-341.	16.4	135
23	A Review: Mesoporous Santa Barbara Amorphous-15, Types, Synthesis and Its Applications towards Biorefinery Production. <i>American Journal of Applied Sciences</i> , 2010, 7, 1579-1586.	0.2	124
24	Optimization of ultrasonic-assisted heterogeneous biodiesel production from palm oil: A response surface methodology approach. <i>Fuel Processing Technology</i> , 2010, 91, 441-448.	7.2	114
25	Hydrogen production from carbon dioxide reforming of methane over Ni-Co/MgO-ZrO <sub>2</sub> catalyst: Process optimization. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4875-4886.	7.1	113
26	Enhanced sunlight photocatalytic performance over Nb <sub>2</sub> O <sub>5</sub> /ZnO nanorod composites and the mechanism study. <i>Applied Catalysis A: General</i> , 2014, 471, 126-135.	4.3	108
27	Production of lactic acid from glycerol via chemical conversion using solid catalyst: A review. <i>Applied Catalysis A: General</i> , 2017, 543, 234-246.	4.3	103
28	Heat treatment effects on the characteristics and sonocatalytic performance of TiO <sub>2</sub> in the degradation of organic dyes in aqueous solution. <i>Journal of Hazardous Materials</i> , 2010, 173, 159-167.	12.4	101
29	Reactive dye degradation by combined Fe(III)/TiO <sub>2</sub> catalyst and ultrasonic irradiation: Effect of Fe(III) loading and calcination temperature. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 669-678.	8.2	100
30	Sunlight responsive WO <sub>3</sub> /ZnO nanorods for photocatalytic degradation and mineralization of chlorinated phenoxyacetic acid herbicides in water. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 34-44.	9.4	94
31	Intensification of biodiesel production via ultrasonic-assisted process: A critical review on fundamentals and recent development. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4574-4587.	16.4	92
32	Direct synthesis of mesoporous 12-tungstophosphoric acid SBA-15 catalyst for selective esterification of glycerol and lauric acid to monolaurate. <i>Chemical Engineering Journal</i> , 2014, 250, 274-287.	12.7	92
33	Characteristics of supported nano-TiO <sub>2</sub> /ZSM-5/silica gel (SNTZS): Photocatalytic degradation of phenol. <i>Journal of Hazardous Materials</i> , 2010, 174, 299-306.	12.4	90
34	Synthesis of oxygenated fuel additives via the solventless etherification of glycerol. <i>Bioresource Technology</i> , 2012, 112, 308-312.	9.6	85
35	A review on recent developments and progress in the kinetics and deactivation of catalytic acetylation of glycerol—A byproduct of biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 387-401.	16.4	84
36	Optimization of coagulation-flocculation process for pulp and paper mill effluent by response surface methodological analysis. <i>Journal of Hazardous Materials</i> , 2007, 145, 162-168.	12.4	83

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37	Utilization of Greenhouse Gases through Dry Reforming: Screening of Nickel-Based Bimetallic Catalysts and Kinetic Studies. <i>ChemSusChem</i> , 2011, 4, 1643-1653.	6.8	83
38	A comprehensive review on state-of-the-art photo-, sono-, and sonophotocatalytic treatments to degrade emerging contaminants. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 601-628.	3.5	83
39	Effect of carbon and nitrogen co-doping on characteristics and sonocatalytic activity of TiO <sub>2</sub> nanotubes catalyst for degradation of Rhodamine B in water. <i>Chemical Engineering Journal</i> , 2013, 214, 129-138.	12.7	82
40	Effect of low Fe <sup>3+</sup> doping on characteristics, sonocatalytic activity and reusability of TiO <sub>2</sub> nanotubes catalysts for removal of Rhodamine B from water. <i>Journal of Hazardous Materials</i> , 2012, 235-236, 326-335.	12.4	81
41	Investigation on visible-light photocatalytic degradation of 2,4-dichlorophenoxyacetic acid in the presence of MoO <sub>3</sub> /ZnO nanorod composites. <i>Journal of Molecular Catalysis A</i> , 2013, 370, 123-131.	4.8	80
42	Optimization of biodiesel production process from Jatropha oil using supported heteropolyacid catalyst and assisted by ultrasonic energy. <i>Renewable Energy</i> , 2013, 50, 427-432.	8.9	80
43	Synthesis of oxygenated fuel additives via glycerol esterification with acetic acid over bio-derived carbon catalyst. <i>Fuel</i> , 2017, 209, 538-544.	6.4	79
44	Comparative study on the process behavior and reaction kinetics in sonocatalytic degradation of organic dyes by powder and nanotubes TiO <sub>2</sub> . <i>Ultrasonics Sonochemistry</i> , 2012, 19, 642-651.	8.2	77
45	Transesterification of crude Jatropha oil by activated carbon-supported heteropolyacid catalyst in an ultrasound-assisted reactor system. <i>Renewable Energy</i> , 2014, 62, 10-17.	8.9	77
46	Catalytic oxidation of butyl acetate over silver-loaded zeolites. <i>Journal of Hazardous Materials</i> , 2008, 157, 480-489.	12.4	76
47	Transition metal oxide loaded ZnO nanorods: Preparation, characterization and their UV-vis photocatalytic activities. <i>Separation and Purification Technology</i> , 2014, 132, 378-387.	7.9	76
48	Visible light responsive TiO <sub>2</sub> nanoparticles modified using Ce and La for photocatalytic reduction of CO <sub>2</sub> : Effect of Ce dopant content. <i>Applied Catalysis A: General</i> , 2017, 537, 111-120.	4.3	75
49	Effect of the addition of potassium and lithium in Pt-Sn/Al <sub>2</sub> O <sub>3</sub> catalysts for the dehydrogenation of isobutane. <i>Fuel Processing Technology</i> , 2007, 88, 883-889.	7.2	74
50	Synthesis of monoglyceride through glycerol esterification with lauric acid over propyl sulfonic acid post-synthesis functionalized SBA-15 mesoporous catalyst. <i>Chemical Engineering Journal</i> , 2011, 174, 668-676.	12.7	73
51	Ultrasound-assisted transesterification of crude Jatropha oil using alumina-supported heteropolyacid catalyst. <i>Applied Energy</i> , 2013, 105, 380-388.	10.1	73
52	Chitosan hydrogel beads impregnated with hexadecylamine for improved reactive blue 4 adsorption. <i>Carbohydrate Polymers</i> , 2016, 137, 139-146.	10.2	73
53	Combustion of chlorinated volatile organic compounds (VOCs) using bimetallic chromium-copper supported on modified H-ZSM-5 catalyst. <i>Journal of Hazardous Materials</i> , 2006, 129, 39-49.	12.4	72
54	Selective removal of dyes by molecular imprinted TiO <sub>2</sub> nanoparticles in polysulfone ultrafiltration membrane. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3991-3998.	6.7	72

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55	Elimination of reactive blue 4 from aqueous solutions using 3-aminopropyl triethoxysilane modified chitosan beads. <i>Carbohydrate Polymers</i> , 2015, 132, 89-96.	10.2	70
56	Sugar cane bagasse as solid catalyst for synthesis of methyl esters from palm fatty acid distillate. <i>Chemical Engineering Journal</i> , 2012, 183, 104-107.	12.7	69
57	Stabilized ladle furnace steel slag for glycerol carbonate synthesis via glycerol transesterification reaction with dimethyl carbonate. <i>Energy Conversion and Management</i> , 2017, 133, 477-485.	9.2	68
58	Effect of annealing temperature on the characteristics, sonocatalytic activity and reusability of nanotubes TiO <sub>2</sub> in the degradation of Rhodamine B. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 393-402.	20.2	67
59	Oil palm trunk and sugarcane bagasse derived heterogeneous acid catalysts for production of fatty acid methyl esters. <i>Energy</i> , 2014, 70, 493-503.	8.8	66
60	Biocatalytic esterification of citronellol with lauric acid by immobilized lipase on aminopropyl-grafted mesoporous SBA-15. <i>Biochemical Engineering Journal</i> , 2009, 44, 263-270.	3.6	65
61	Optimization of mesoporous K/SBA-15 catalyzed transesterification of palm oil using response surface methodology. <i>Fuel Processing Technology</i> , 2009, 90, 958-964.	7.2	65
62	Production of biodiesel from <i>Jatropha curcas</i> L. oil catalyzed by $\text{SO}_4^{2-}$ catalyst: Effect of interaction between process variables. <i>Bioresource Technology</i> , 2011, 102, 4285-4289.	9.6	65
63	The effect of organic loading rates and nitrogenous compounds on the aerobic granules developed using low strength wastewater. <i>Biochemical Engineering Journal</i> , 2012, 67, 52-59.	3.6	61
64	Optimization of pre-treated palm oil mill effluent digestion in an up-flow anaerobic sludge fixed film bioreactor: A comparative study. <i>Biochemical Engineering Journal</i> , 2007, 35, 226-237.	3.6	58
65	ZnO nanorods surface-decorated by WO <sub>3</sub> nanoparticles for photocatalytic degradation of endocrine disruptors under a compact fluorescent lamp. <i>Ceramics International</i> , 2013, 39, 2343-2352.	4.8	56
66	Development of functionalized zeolite membrane and its potential role as reactor combined separator for para-xylene production from xylene isomers. <i>Chemical Engineering Journal</i> , 2008, 139, 172-193.	12.7	54
67	Oil palm trunk and sugarcane bagasse derived solid acid catalysts for rapid esterification of fatty acids and moisture-assisted transesterification of oils under pseudo-infinite methanol. <i>Bioresource Technology</i> , 2014, 157, 254-262.	9.6	53
68	Glycerol carbonate synthesis from glycerol and dimethyl carbonate using trisodium phosphate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 51-58.	5.3	53
69	Floc behavior and removal mechanisms of cross-linked Durio zibethinus seed starch as a natural flocculant for landfill leachate coagulation-flocculation treatment. <i>Waste Management</i> , 2018, 74, 362-372.	7.4	53
70	A Review on the Treatment of Petroleum Refinery Wastewater Using Advanced Oxidation Processes. <i>Catalysts</i> , 2021, 11, 782.	3.5	52
71	Quality evaluation of biodiesel produced through ultrasound-assisted heterogeneous catalytic system. <i>Fuel Processing Technology</i> , 2012, 97, 1-8.	7.2	51
72	Optimization of sonocatalytic degradation of Rhodamine B in aqueous solution in the presence of TiO <sub>2</sub> nanotubes using response surface methodology. <i>Chemical Engineering Journal</i> , 2011, 166, 873-880.	12.7	50

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73	Process behavior of TiO <sub>2</sub> nanotube-enhanced sonocatalytic degradation of Rhodamine B in aqueous solution. <i>Separation and Purification Technology</i> , 2011, 77, 331-338.	7.9	49
74	Intensification of biodiesel production from vegetable oils using ultrasonic-assisted process: Optimization and kinetic. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 73, 135-143.	3.6	48
75	A review over the role of catalysts for selective short-chain polyglycerol production from biodiesel derived waste glycerol. <i>Environmental Technology and Innovation</i> , 2020, 19, 100859.	6.1	48
76	A Kinetic Study of Catalytic Combustion of Ethyl Acetate and Benzene in Air Stream over Cr-ZSM-5 Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 6059-6067.	3.7	45
77	Lifetime and Regeneration Studies of Various Supported TiO <sub>2</sub> Photocatalysts for the Degradation of Phenol under UV-C Light in a Batch Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 9006-9014.	3.7	45
78	Modeling of the continuous copper and zinc removal by sorption onto sodium hydroxide-modified oil palm frond in a fixed-bed column. <i>Chemical Engineering Journal</i> , 2008, 145, 259-266.	12.7	44
79	Process optimization studies of p-xylene separation from binary xylene mixture over silicalite-1 membrane using response surface methodology. <i>Journal of Membrane Science</i> , 2009, 341, 96-108.	8.2	43
80	Photocatalytic TiO <sub>2</sub> /Carbon Nanotube Nanocomposites for Environmental Applications: An Overview and Recent Developments. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 471-509.	2.1	43
81	Fast pyrolysis of durian ( <i>Durio zibethinus</i> L) shell in a drop-type fixed bed reactor: Pyrolysis behavior and product analyses. <i>Bioresource Technology</i> , 2017, 243, 85-92.	9.6	43
82	Critical technical areas for future improvement in biodiesel technologies. <i>Environmental Research Letters</i> , 2007, 2, 034001.	5.2	42
83	Green hydrothermal synthesis of ZnO nanotubes for photocatalytic degradation of methylparaben. <i>Materials Letters</i> , 2013, 93, 423-426.	2.6	41
84	The Challenges of a Biodiesel Implementation Program in Malaysia. <i>Processes</i> , 2020, 8, 1244.	2.8	41
85	Adsorption of butyl acetate in air over silver-loaded Y and ZSM-5 zeolites: Experimental and modelling studies. <i>Journal of Hazardous Materials</i> , 2009, 163, 73-81.	12.4	40
86	Photocatalytic degradation of resorcinol, an endocrine disrupter, by TiO <sub>2</sub> and ZnO suspensions. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1097-1106.	2.2	40
87	Experimental analysis of di-functional magnetic oxide catalyst and its performance in the hemp plant biodiesel production. <i>Applied Energy</i> , 2014, 113, 660-669.	10.1	40
88	Esterification of oily-FFA and transesterification of high FFA waste oils using novel palm trunk and bagasse-derived catalysts. <i>Energy Conversion and Management</i> , 2014, 88, 1143-1150.	9.2	40
89	Catalytic fast pyrolysis of durian rind using silica-alumina catalyst: Effects of pyrolysis parameters. <i>Bioresource Technology</i> , 2018, 264, 198-205.	9.6	40
90	Zeolite Y encapsulated with Fe-TiO <sub>2</sub> for ultrasound-assisted degradation of amaranth dye in water. <i>Journal of Hazardous Materials</i> , 2012, 233-234, 184-193.	12.4	39

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91	Ultrasound-assisted transesterification of crude Jatropha oil using cesium doped heteropolyacid catalyst: Interactions between process variables. <i>Energy</i> , 2013, 60, 283-291.	8.8	39
92	Diglycerol synthesis via solvent-free selective glycerol etherification process over lithium-modified clay catalyst. <i>Chemical Engineering Journal</i> , 2013, 225, 784-789.	12.7	39
93	Nutrient and mineral assessment of edible wild fig and mulberry fruits. <i>Fruits</i> , 2014, 69, 159-166.	0.4	37
94	Development of self-assembled nanocrystalline cellulose as a promising practical adsorbent for methylene blue removal. <i>Carbohydrate Polymers</i> , 2018, 199, 92-101.	10.2	36
95	Enhancement of photocatalytic degradation of Malachite Green using iron doped titanium dioxide loaded on oil palm empty fruit bunch-derived activated carbon. <i>Chemosphere</i> , 2021, 272, 129588.	8.2	36
96	High sensitivity and fast response SnO <sub>2</sub> and La-SnO <sub>2</sub> catalytic pellet sensors in detecting volatile organic compounds. <i>Chemical Engineering Research and Design</i> , 2011, 89, 186-192.	5.6	35
97	Efficient photodegradation of resorcinol with Ag <sub>2</sub> O/ZnO nanorods heterostructure under a compact fluorescent lamp irradiation. <i>Chemical Papers</i> , 2013, 67, .	2.2	35
98	Application of response surface methodology for the optimization of NaOH treatment on oil palm frond towards improvement in the sorption of heavy metals. <i>Desalination</i> , 2009, 244, 227-238.	8.2	34
99	Optimization of bioresource material from oil palm trunk core drying using microwave radiation; a response surface methodology application. <i>Bioresource Technology</i> , 2010, 101, 8396-8401.	9.6	33
100	Heterogeneously catalyzed etherification of glycerol to diglycerol over calcium lanthanum oxide supported on MCM-41: A heterogeneous basic catalyst. <i>Applied Catalysis A: General</i> , 2014, 479, 76-86.	4.3	32
101	The way forward for the modification of dye-sensitized solar cell towards better power conversion efficiency. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 438-452.	16.4	32
102	A review on recent developments and progress in sustainable acrolein production through catalytic dehydration of bio-renewable glycerol. <i>Journal of Cleaner Production</i> , 2022, 341, 130876.	9.3	31
103	Glycerol etherification to polyglycerols using Ca <sub>1+x</sub> Al <sub>1-x</sub> La <sub>x</sub> O <sub>3</sub> composite catalysts in a solventless medium. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 117-122.	5.3	30
104	Artificial neural network approach for modeling of ultrasound-assisted transesterification process of crude Jatropha oil catalyzed by heteropolyacid based catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 75, 31-37.	3.6	30
105	Post Synthetically Functionalized SBA-15 with Organosulfonic Acid and Sulfated Zirconia for Esterification of Glycerol to Monoglyceride. <i>Journal of Applied Sciences</i> , 2010, 10, 3199-3206.	0.3	30
106	LiOH-modified montmorillonite K-10 as catalyst for selective glycerol etherification to diglycerol. <i>Catalysis Communications</i> , 2013, 34, 22-25.	3.3	29
107	Exploring kaolinite as dry methane reforming catalyst support: Influences of chemical activation, organic ligand functionalization and calcination temperature. <i>Applied Catalysis A: General</i> , 2019, 576, 20-31.	4.3	29
108	Mechanism and reaction kinetic of hybrid ozonation-ultrasonication treatment for intensified degradation of emerging organic contaminants in water: A critical review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 154, 108047.	3.6	29

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109	Ultrasound-assisted biodiesel production from waste cooking oil using hydrotalcite prepared by combustion method as catalyst. <i>Applied Catalysis A: General</i> , 2016, 514, 214-223.	4.3	28
110	Low frequency sonocatalytic degradation of Azo dye in water using Fe-doped zeolite Y catalyst. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 743-753.	8.2	26
111	Synthesis and characterization of NiO and Ni nanoparticles using nanocrystalline cellulose (NCC) as a template. <i>Ceramics International</i> , 2017, 43, 16331-16339.	4.8	26
112	Efficient Photodegradation of Endocrine-Disrupting Chemicals with Bi <sub>2</sub> O <sub>3</sub> @ZnO Nanorods Under a Compact Fluorescent Lamp. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	25
113	Kinetics Modeling and Mechanism Study for Selective Esterification of Glycerol with Lauric Acid Using 12-Tungstophosphoric Acid Post-Impregnated SBA-15. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7852-7858.	3.7	25
114	Native defects in silver orthophosphate and their effects on photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2018, 428, 1029-1035.	6.1	24
115	Prospects and current status of B5 biodiesel implementation in Malaysia. <i>Energy Policy</i> , 2013, 62, 456-462.	8.8	22
116	Biosynthesized Fe- and Ag-doped ZnO nanoparticles using aqueous extract of <i>Clitoria ternatea</i> Linn for enhancement of sonocatalytic degradation of Congo red. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34675-34691.	5.3	22
117	Selective Monolaurin Synthesis through Esterification of Glycerol Using Sulfated Zirconia-Loaded SBA-15 Catalyst. <i>Chemical Engineering Communications</i> , 2016, 203, 496-504.	2.6	21
118	Enhancing reactive blue 4 adsorption through chemical modification of chitosan with hexadecylamine and 3-aminopropyl triethoxysilane. <i>Journal of Water Process Engineering</i> , 2017, 15, 49-54.	5.6	21
119	Oil Palm Biomass as an Adsorbent for Heavy Metals. <i>Reviews of Environmental Contamination and Toxicology</i> , 2014, 232, 61-88.	1.3	21
120	Catalytic behavior of sulfated zirconia supported on SBA-15 as catalyst in selective glycerol esterification with palmitic acid to monopalmitin. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 199-204.	5.3	20
121	Etherification of glycerol to polyglycerols over hydrotalcite catalyst prepared using a combustion method. <i>Catalysis Communications</i> , 2013, 32, 67-70.	3.3	19
122	The Production, Optimization, and Characterization of Biodiesel from a Novel Source: <i>Sinapis alba</i> L. <i>International Journal of Green Energy</i> , 2014, 11, 280-291.	3.8	19
123	Product distribution of the thermal and catalytic fast pyrolysis of karanja ( <i>Pongamia pinnata</i> ) fruit hulls over a reusable silica-alumina catalyst. <i>Fuel</i> , 2019, 245, 89-95.	6.4	19
124	A review on one-pot synthesis of acrylic acid from glycerol on bi-functional catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 216-227.	5.8	19
125	Effect of tetramethyl ammonium hydroxide on the activity of LiOH-intercalated montmorillonite catalyst in the transesterification of methyl laurate with glycerol. <i>Chemical Engineering Journal</i> , 2011, 167, 328-334.	12.7	17
126	Synthesis and Characterization of NiO Nanospheres by Templating on Chitosan as a Green Precursor. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3874-3882.	3.8	17



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127	Removal of Zn and Cu from Wastewater by Sorption on Oil Palm Tree-Derived Biomasses. <i>Journal of Applied Sciences</i> , 2007, 7, 2020-2027.	0.3	17
128	Instability of SBA-15 to Strong Base: Effects of LiOH Impregnation on its Surface Characteristics and Mesoporous Structure. <i>Journal of Applied Sciences</i> , 2011, 11, 3510-3514.	0.3	17
129	Xylene isomerization kinetic over acid-functionalized silicalite-1 catalytic membranes: Experimental and modeling studies. <i>Chemical Engineering Journal</i> , 2010, 157, 579-589.	12.7	16
130	Performance of lithium modified zeolite Y catalyst in solvent-free conversion of glycerol to polyglycerols. <i>Journal of Taibah University for Science</i> , 2014, 8, 231-235.	2.5	16
131	Selective acid-functionalized mesoporous silica catalyst for conversion of glycerol to monoglycerides: state of the art and future prospects. <i>Reviews in Chemical Engineering</i> , 2018, 34, 239-265.	4.4	16
132	Zeolite Membrane Based Selective Gas Sensors for Monitoring and Control of Gas Emissions. <i>Sensor Letters</i> , 2007, 5, 485-499.	0.4	16
133	Coking Characteristics of Chromium-Exchanged ZSM-5 in Catalytic Combustion of Ethyl Acetate and Benzene in Air. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 5737-5744.	3.7	15
134	Synthesis, structure and acid characteristics of partially crystalline silicalite-1 based materials. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 129-139.	4.4	15
135	Effects of functionalization conditions of sulfonic acid grafted SBA-15 on catalytic activity in the esterification of glycerol to monoglyceride: a factorial design approach. <i>Journal of Porous Materials</i> , 2012, 19, 835-846.	2.6	15
136	Optimised Co-Precipitation synthesis condition for oxalate-derived zirconia nanoparticles. <i>Ceramics International</i> , 2019, 45, 22930-22939.	4.8	15
137	Review of large-pore mesostructured cellular foam (MCF) silica and its applications. <i>Open Chemistry</i> , 2019, 17, 1000-1016.	1.9	15
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