

Abdul Aziz Abdul Raman

List of Publications by Year in descending order

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203
papers

12,795
citations

38720

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26591

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209
all docs

209
docs citations

209
times ranked

14196
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced oxidation processes for in-situ production of hydrogen peroxide/hydroxyl radical for textile wastewater treatment: a review. <i>Journal of Cleaner Production</i> , 2015, 87, 826-838.	4.6	746
2	Review on the application of modified iron oxides as heterogeneous catalysts in Fenton reactions. <i>Journal of Cleaner Production</i> , 2014, 64, 24-35.	4.6	583
3	Glycerol production and its applications as a raw material: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 118-127.	8.2	511
4	High quality biodiesel and its diesel engine application: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1999-2008.	8.2	509
5	Application of doped photocatalysts for organic pollutant degradation - A review. <i>Journal of Environmental Management</i> , 2017, 198, 78-94.	3.8	463
6	The effects of catalysts in biodiesel production: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 14-26.	2.9	436
7	Biodiesel separation and purification: A review. <i>Renewable Energy</i> , 2011, 36, 437-443.	4.3	398
8	Review on the main advances in photo-Fenton oxidation system for recalcitrant wastewaters. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 53-69.	2.9	394
9	A comprehensive review on properties of edible and non-edible vegetable oil-based biodiesel: Composition, specifications and prediction models. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 62-92.	8.2	373
10	Treatment technologies for petroleum refinery effluents: A review. <i>Chemical Engineering Research and Design</i> , 2011, 89, 95-105.	2.7	366
11	A review of the applications of organo-functionalized magnetic graphene oxide nanocomposites for heavy metal adsorption. <i>Chemosphere</i> , 2018, 193, 1004-1017.	4.2	329
12	Microalgae lipid and biomass for biofuel production: A comprehensive review on lipid enhancement strategies and their effects on fatty acid composition. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 200-232.	8.2	298
13	Activity of solid acid catalysts for biodiesel production: A critical review. <i>Applied Catalysis A: General</i> , 2014, 470, 140-161.	2.2	291
14	Recent advances in DNA-based electrochemical biosensors for heavy metal ion detection: A review. <i>Biosensors and Bioelectronics</i> , 2017, 90, 125-139.	5.3	247
15	A review on approaches for addressing the limitations of Fenton oxidation for recalcitrant wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2019, 126, 119-140.	2.7	247
16	Production of biodiesel using high free fatty acid feedstocks. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3275-3285.	8.2	232
17	The effects of water on biodiesel production and refining technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3456-3470.	8.2	229
18	Adsorption of arsenic using chitosan magnetic graphene oxide nanocomposite. <i>Journal of Environmental Management</i> , 2019, 246, 547-556.	3.8	213

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19	Recent advances and prospects of catalytic advanced oxidation process in treating textile effluents. <i>Reviews in Chemical Engineering</i> , 2016, 32, 1-47.	2.3	207
20	Refining technologies for the purification of crude biodiesel. <i>Applied Energy</i> , 2011, 88, 4239-4251.	5.1	177
21	Evaluating the efficiency of nano-sized Cu doped TiO ₂ /ZnO photocatalyst under visible light irradiation. <i>Journal of Molecular Liquids</i> , 2018, 258, 354-365.	2.3	168
22	A packed bed membrane reactor for production of biodiesel using activated carbon supported catalyst. <i>Bioresource Technology</i> , 2011, 102, 1095-1102.	4.8	165
23	Potassium hydroxide catalyst supported on palm shell activated carbon for transesterification of palm oil. <i>Fuel Processing Technology</i> , 2010, 91, 1378-1385.	3.7	160
24	A Comparison of Central Composite Design and Taguchi Method for Optimizing Fenton Process. <i>Scientific World Journal</i> , The, 2014, 2014, 1-14.	0.8	155
25	Phytoremediation of soil contaminated with used lubricating oil using <i>Jatropha curcas</i> . <i>Journal of Hazardous Materials</i> , 2010, 179, 891-894.	6.5	140
26	Applications of fluidized bed reactors in wastewater treatment – A review of the major design and operational parameters. <i>Journal of Cleaner Production</i> , 2017, 141, 1492-1514.	4.6	139
27	Applicability of fluidized bed reactor in recalcitrant compound degradation through advanced oxidation processes: A review. <i>Journal of Environmental Management</i> , 2014, 146, 260-275.	3.8	115
28	Membrane biodiesel production and refining technology: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 5051-5062.	8.2	109
29	Oxidative mineralisation of petroleum refinery effluent using Fenton-like process. <i>Chemical Engineering Research and Design</i> , 2012, 90, 298-307.	2.7	106
30	Thermal conductivity variation for methanol based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 350-356.	2.5	99
31	Combination of electrocoagulation with advanced oxidation processes for the treatment of distillery industrial effluent. <i>Chemical Engineering Research and Design</i> , 2016, 99, 227-235.	2.7	94
32	Electrocoagulation treatment of raw landfill leachate using iron-based electrodes: Effects of process parameters and optimization. <i>Journal of Environmental Management</i> , 2017, 204, 75-81.	3.8	88
33	Biodegradation of Used Motor Oil in Soil Using Organic Waste Amendments. <i>Biotechnology Research International</i> , 2012, 2012, 1-8.	1.4	87
34	Performance evaluation of biodiesel from used domestic waste oils: A review. <i>Chemical Engineering Research and Design</i> , 2012, 90, 164-179.	2.7	86
35	Sonochemical reactors: Review on features, advantages and limitations. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 302-314.	8.2	85
36	Two-Step Purification of Glycerol as a Value Added by Product From the Biodiesel Production Process. <i>Frontiers in Chemistry</i> , 2019, 7, 774.	1.8	84

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37	Trend and current practices of palm oil mill effluent polishing: Application of advanced oxidation processes and their future perspectives. <i>Journal of Environmental Management</i> , 2017, 198, 170-182.	3.8	82
38	Optimization and modeling of extraction of solid coconut waste oil. <i>Journal of Food Engineering</i> , 2013, 114, 228-234.	2.7	81
39	Integrated ozone ² electrocoagulation process for the removal of pollutant from industrial effluent: Optimization through response surface methodology. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 105, 92-102.	1.8	76
40	Enhanced Biodegradation of Used Engine Oil in Soil Amended with Organic Wastes. <i>Water, Air, and Soil Pollution</i> , 2010, 209, 173-179.	1.1	72
41	Influence of ultrasound power on acoustic streaming and micro-bubbles formations in a low frequency sono-reactor: Mathematical and 3D computational simulation. <i>Ultrasonics Sonochemistry</i> , 2015, 24, 193-203.	3.8	72
42	Density of Palm Oil-Based Methyl Ester. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 877-880.	1.0	69
43	Electrocoagulation of Congo Red dye-containing wastewater: Optimization of operational parameters and process mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104055.	3.3	64
44	Solid acid-catalyzed biodiesel production from microalgal oil ² The dual advantage. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 113-121.	3.3	62
45	Ozone (O ₃) and sono (US) based advanced oxidation processes for the removal of color, COD and determination of electrical energy from landfill leachate. <i>Separation and Purification Technology</i> , 2017, 172, 442-449.	3.9	60
46	Synergy of adsorption and advanced oxidation processes in recalcitrant wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019, 17, 1125-1142.	8.3	60
47	Biogasoline: An out-of-the-box solution to the food-for-fuel and land-use competitions. <i>Energy Conversion and Management</i> , 2015, 89, 349-367.	4.4	57
48	Thermophysical properties of methanol based Al ₂ O ₃ nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 414-419.	2.5	56
49	High quality biodiesel obtained through membrane technology. <i>Journal of Membrane Science</i> , 2012, 421-422, 154-164.	4.1	53
50	Fibre Optic Sensors for Selected Wastewater Characteristics. <i>Sensors</i> , 2013, 13, 8640-8668.	2.1	53
51	Ultrasound and UV assisted Fenton treatment of recalcitrant wastewaters using transition metal-substituted-magnetite nanoparticles. <i>Journal of Molecular Liquids</i> , 2016, 222, 1076-1084.	2.3	53
52	LIQUID-LIQUID MIXING IN STIRRED VESSELS: A REVIEW. <i>Chemical Engineering Communications</i> , 2013, 200, 595-627.	1.5	52
53	Investigation, modelling and reviewing the effective parameters in microwave-assisted transesterification. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 762-777.	8.2	51
54	Synthesis and activity evaluation of heterometallic nano oxides integrated ZSM-5 catalysts for palm oil cracking to produce biogasoline. <i>Energy Conversion and Management</i> , 2016, 119, 352-360.	4.4	51

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55	Viscosities and Densities of Binary and Ternary Blends of Palm Oil + Palm Biodiesel + Diesel Fuel at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 504-507.	1.0	47
56	Cleaner production implementation in a fruit juice production plant. <i>Journal of Cleaner Production</i> , 2015, 101, 215-221.	4.6	46
57	From bamboo leaf to aerogel: Preparation of water glass as a precursor. <i>Journal of Non-Crystalline Solids</i> , 2014, 386, 76-84.	1.5	45
58	Hybrid of Fenton and sequencing batch reactor for petroleum refinery wastewater treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 186-191.	2.9	45
59	Performance evaluation of hybrid electrocoagulation process parameters for the treatment of distillery industrial effluent. <i>Chemical Engineering Research and Design</i> , 2016, 104, 406-412.	2.7	45
60	Reactive extraction of solid coconut waste to produce biodiesel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 233-238.	2.7	44
61	Effect of temperature and volume fraction on rheology of methanol based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 765-769.	2.5	44
62	Degradation performance and cost implication of UV-integrated advanced oxidation processes for wastewater treatments. <i>Reviews in Chemical Engineering</i> , 2015, 31, .	2.3	44
63	Application of multiple linear regression, central composite design, and ANFIS models in dye concentration measurement and prediction using plastic optical fiber sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 74, 78-86.	2.5	43
64	Blended aviation biofuel from esterified <i>Jatropha curcas</i> and waste vegetable oils. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 911-916.	2.7	42
65	Electrical energy per order determination for the removal pollutant from industrial wastewater using UV/Fe ²⁺ /H ₂ O ₂ process: Optimization by response surface methodology. <i>Water Resources and Industry</i> , 2017, 18, 17-32.	1.9	41
66	Density of <i>Jatropha curcas</i> Seed Oil and its Methyl Esters: Measurement and Estimations. <i>International Journal of Thermophysics</i> , 2009, 30, 529-541.	1.0	40
67	Enhanced UV-Visible photocatalytic activity of Cu-doped ZnO/TiO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5480-5495.	1.1	40
68	Energy intensified integrated advanced oxidation technology for the treatment of recalcitrant industrial wastewater. <i>Journal of Cleaner Production</i> , 2019, 206, 1025-1040.	4.6	40
69	Niobium substituted magnetite as a strong heterogeneous Fenton catalyst for wastewater treatment. <i>Applied Surface Science</i> , 2015, 351, 175-187.	3.1	39
70	Synthesis of iron oxides impregnated green adsorbent from sugarcane bagasse: Characterization and evaluation of adsorption efficiency. <i>Journal of Environmental Management</i> , 2019, 249, 109323.	3.8	38
71	Review on Measurement Techniques for Drop Size Distribution in a Stirred Vessel. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16085-16094.	1.8	37
72	Sono assisted electrocoagulation process for the removal of pollutant from pulp and paper industry effluent. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5168-5178.	2.7	37

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73	Methanol recovery during transesterification of palm oil in a TiO ₂ /Al ₂ O ₃ membrane reactor: Experimental study and neural network modeling. <i>Separation and Purification Technology</i> , 2010, 76, 58-63.	3.9	36
74	Development of an advanced chemical oxidation wastewater treatment system for the batik industry in Malaysia. <i>RSC Advances</i> , 2016, 6, 25222-25241.	1.7	36
75	Review on Applicable breakup/coalescence models in turbulent liquid-liquid flows. <i>Reviews in Chemical Engineering</i> , 2013, 29, .	2.3	34
76	Hydrogen production by <i>Chlamydomonas reinhardtii</i> in a two-stage process with and without illumination at alkaline pH. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4930-4934.	3.8	33
77	Investigation of mass transfer intensification under power ultrasound irradiation using 3D computational simulation: A comparative analysis. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 504-518.	3.8	33
78	Phytotreatment of soil contaminated with used lubricating oil using <i>Hibiscus cannabinus</i> . <i>Biodegradation</i> , 2012, 23, 277-286.	1.5	32
79	Investigation on stability and density of methanol based TiO ₂ nanofluids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012057.	0.3	32
80	Rheological and statistical evaluation of nontraditional lightweight completion fluid and its dependence on temperature. <i>Journal of Petroleum Science and Engineering</i> , 2011, 77, 27-33.	2.1	31
81	Status of biodiesel research and development in Pakistan. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4396-4405.	8.2	31
82	Carbon dioxide emission reduction through cleaner production strategies in a recycled plastic resins producing plant. <i>Journal of Cleaner Production</i> , 2017, 141, 1067-1073.	4.6	31
83	Study of various curved-blade impeller geometries on power consumption in stirred vessel using response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 192-201.	2.7	30
84	Recent advances, challenges and prospects of <i>in situ</i> production of hydrogen peroxide for textile wastewater treatment in microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1466-1480.	1.6	30
85	Effects of niobium and molybdenum impregnation on adsorption capacity and Fenton catalytic activity of magnetite. <i>RSC Advances</i> , 2015, 5, 87535-87549.	1.7	30
86	Synthesis and characterization of magnetic graphene oxide for arsenic removal from aqueous solution. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1508-1516.	1.2	30
87	A comparative fluid flow characterisation in a low frequency/high power sonoreactor and mechanical stirred vessel. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 359-373.	3.8	29
88	Densities of Ethyl Esters Produced from Different Vegetable Oils. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2222-2225.	1.0	28
89	Cohesiveness and Flowability Properties of Silica Gel Powder. <i>Physics International</i> , 2010, 1, 16-21.	2.0	28
90	Fluid dynamic analysis of non-Newtonian flow behavior of municipal sludge simulant in anaerobic digesters using submerged, recirculating jets. <i>Chemical Engineering Journal</i> , 2016, 298, 259-270.	6.6	28

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91	TiO ₂ catalyst deactivation in textile wastewater treatment: Current challenges and future advances. Journal of Industrial and Engineering Chemistry, 2016, 33, 11-21.	2.9	27
92	<i>In situ</i> production of hydrogen peroxide in a microbial fuel cell for recalcitrant wastewater treatment. Journal of Chemical Technology and Biotechnology, 2017, 92, 1825-1840.	1.6	27
93	Mechanistic analysis of cavitation assisted transesterification on biodiesel characteristics. Ultrasonics Sonochemistry, 2015, 22, 463-473.	3.8	25
94	Review on gas-liquid mixing analysis in multiscale stirred vessel using CFD. Reviews in Chemical Engineering, 2012, 28, .	2.3	24
95	Activated carbon as carrier in fluidized bed reactor for Fenton oxidation of recalcitrant dye: Oxidation-adsorption synergy and surface interaction. Journal of Water Process Engineering, 2020, 33, 101001.	2.6	24
96	Characterisation of bio-silica synthesised from cogon grass (<i>Imperata cylindrica</i>). Powder Technology, 2014, 254, 206-213.	2.1	23
97	Palm Frond and Spikelet as Environmentally Benign Alternative Solid Acid Catalysts for Biodiesel Production. BioResources, 2015, 10, .	0.5	23
98	Mean drop size correlations and population balance models for liquid-liquid dispersion. AIChE Journal, 2015, 61, 1129-1145.	1.8	23
99	Fenton oxidative treatment of petroleum refinery wastewater: process optimization and sludge characterization. RSC Advances, 2015, 5, 68159-68168.	1.7	23
100	Sensitivity analysis of the photoactivity of Cu-TiO ₂ /ZnO during advanced oxidation reaction by Adaptive Neuro-Fuzzy Selection Technique. Measurement: Journal of the International Measurement Confederation, 2016, 77, 155-174.	2.5	23
101	Integrated ozone-photo-Fenton process for the removal of pollutant from industrial wastewater. Chinese Journal of Chemical Engineering, 2017, 25, 516-522.	1.7	23
102	Predicting the degradation potential of Acid blue 113 by different oxidants using quantum chemical analysis. Heliyon, 2019, 5, e02396.	1.4	23
103	Review on the Inherently Safer Design for chemical processes: Past, present and future. Journal of Cleaner Production, 2021, 305, 127154.	4.6	23
104	Sensitivity analysis of catalyzed-transesterification as a renewable and sustainable energy production system by adaptive neuro-fuzzy methodology. Journal of the Taiwan Institute of Chemical Engineers, 2016, 64, 47-58.	2.7	22
105	Effect of nitrogen doping on graphite cathode for hydrogen peroxide production and power generation in MFC. Journal of the Taiwan Institute of Chemical Engineers, 2017, 76, 89-100.	2.7	22
106	Waste-to-energy: Coal-like refuse derived fuel from hazardous waste and biomass mixture. Chemical Engineering Research and Design, 2021, 149, 655-664.	2.7	22
107	Removal of residual palm oil-based biodiesel catalyst using membrane ultra-filtration technique: An optimization study. AEJ - Alexandria Engineering Journal, 2014, 53, 705-715.	3.4	21
108	Selected physical properties of binary mixtures of crude glycerol and methanol at various temperatures. Journal of Industrial and Engineering Chemistry, 2015, 21, 1039-1043.	2.9	21

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109	Investigation on stability and viscosity of SiO ₂ -CH ₃ OH (methanol) nanofluids. International Communications in Heat and Mass Transfer, 2016, 72, 16-22.	2.9	21
110	Facile synthesis of sulfated mesoporous Zr/ZSM-5 with improved Brønsted acidity and superior activity over SZr/Ag, SZr/Ti, and SZr/W in transforming UFO into biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 247-257.	2.7	21
111	Magnetic graphene oxide-biomass activated carbon composite for dye removal. Korean Journal of Chemical Engineering, 2020, 37, 2179-2191.	1.2	20
112	A Comparative Study on a Cationic Dye Removal through Homogeneous and Heterogeneous Fenton Oxidation Systems. Acta Chimica Slovenica, 2018, 65, 166-171.	0.2	19
113	Multiple-impeller stirred vessel studies. Reviews in Chemical Engineering, 2014, 30, .	2.3	18
114	Measuring powder flowability with a modified Warren Spring cohesion tester. Particuology, 2011, 9, 148-154.	2.0	17
115	Experimental Investigations in Liquid-Liquid Dispersion System: Effects of Dispersed Phase Viscosity and Impeller Speed. Industrial & Engineering Chemistry Research, 2014, 53, 6554-6561.	1.8	17
116	Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation. Journal of Industrial and Engineering Chemistry, 2014, 20, 1493-1504.	2.9	17
117	TiO ₂ /Al ₂ O ₃ membrane reactor equipped with a methanol recovery unit to produce palm oil biodiesel. International Journal of Energy Research, 2012, 36, 120-129.	2.2	16
118	Cathode modification to enhance the performance of <i>in situ</i> fenton oxidation in microbial fuel cells. Environmental Progress and Sustainable Energy, 2017, 36, 382-393.	1.3	16
119	Comprehensive study on the influence of molybdenum substitution on characteristics and catalytic performance of magnetite nanoparticles. Research on Chemical Intermediates, 2018, 44, 883-900.	1.3	16
120	Acidity and catalytic performance of Yb-doped SO_4 in comparison with SO_4 overflow="scroll">SO_4 Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 195-204.	2.7	15
121	Systematic review on the implementation methodologies of inherent safety in chemical process. Journal of Loss Prevention in the Process Industries, 2020, 65, 104092.	1.7	15
122	Estimation of Vegetable Oil-Based Ethyl Esters Biodiesel Densities Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 3005-3011.	0.1	15
123	Recovery and reutilisation of copper from metal hydroxide sludges. Clean Technologies and Environmental Policy, 2008, 10, 131-136.	2.1	14
124	Sequential Optimization for Minimizing Material Cost and Treatment Time of Fenton Oxidation for Textile Wastewater Treatment. Chemical Engineering Communications, 2017, 204, 873-883.	1.5	14
125	Textile wastewater treatment efficiency by Fenton oxidation with integration of membrane separation system. Chemical Engineering Communications, 2019, 206, 541-557.	1.5	14
126	Stimulated Biodegradation of Used Lubricating Oil in Soil Using Organic Wastes. Malaysian Journal of Science, 2009, 28, 127-133.	0.2	14

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127	Prediction of Palm Oil-Based Methyl Ester Biodiesel Density Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 1938-1943.	0.1	14
128	Inclusion of human errors assessment in failure frequency analysis—A case study for the transportation of ammonia by rail in Malaysia. Process Safety Progress, 2009, 28, 60-67.	0.4	13
129	Quantitative risk assessment for the transport of ammonia by rail. Process Safety Progress, 2010, 29, 60-63.	0.4	13
130	Using D-optimal experimental design to optimise remazol black B mineralisation by Fenton-like peroxidation. Environmental Technology (United Kingdom), 2012, 33, 1111-1121.	1.2	13
131	Agitation energy efficiency in gas–liquid stirred vessels operating at ultra-high solids concentrations. Chemical Engineering Research and Design, 2016, 111, 34-48.	2.7	13
132	Analysis and Optimization of Ultrasound-Assisted Alkaline Palm Oil Transesterification by RSM and ANN-GA. Chemical Engineering Communications, 2017, 204, 365-381.	1.5	13
133	Experimental and modeling evaluation of droplet size in immiscible liquid-liquid stirred vessel using various impeller designs. Journal of the Taiwan Institute of Chemical Engineers, 2019, 100, 26-36.	2.7	13
134	Enhancement of Treatment Efficiency of Recalcitrant Wastewater Containing Textile Dyes Using a Newly Developed Iron Zeolite Socony Mobil-5 Heterogeneous Catalyst. PLoS ONE, 2015, 10, e0141348.	1.1	13
135	Maximizing gas–liquid interfacial area in a three-phase stirred vessel operating at high solids concentrations. Chemical Engineering and Processing: Process Intensification, 2016, 104, 133-147.	1.8	12
136	Hybrid neuro-fuzzy methods for estimation of ultrasound and mechanically stirring Influences on biodiesel synthesis through transesterification. Measurement: Journal of the International Measurement Confederation, 2017, 103, 62-76.	2.5	12
137	Macromixing study for various designs of impellers in a stirred vessel. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107794.	1.8	12
138	Co-regulative effects of chitosan-fennel seed extract system on the hormonal and biochemical factors involved in the polycystic ovarian syndrome. Materials Science and Engineering C, 2020, 117, 111351.	3.8	12
139	Treatment of oil refinery effluent using bio-adsorbent developed from activated palm kernel shell and zeolite. RSC Advances, 2020, 10, 24079-24094.	1.7	12
140	A critical analysis on biogas production and utilisation potential from palm oil mill effluent. Journal of Cleaner Production, 2022, 361, 132040.	4.6	12
141	3D Simulation of fatty acid methyl ester production in a packed membrane reactor. Fuel Processing Technology, 2014, 118, 7-19.	3.7	11
142	Challenges and recommendations for using membranes in wastewater-based microbial fuel cells for in situ Fenton oxidation for textile wastewater treatment. Reviews in Chemical Engineering, 2015, 31, .	2.3	11
143	Effect of ultrasonic irradiations on gas–liquid mass transfer coefficient (kLa); Experiments and modelling. Measurement: Journal of the International Measurement Confederation, 2016, 79, 119-129.	2.5	11
144	Fractional factorial design optimization of nontraditional completion fluid for perforation with underbalance. Chemistry and Technology of Fuels and Oils, 2010, 46, 340-350.	0.2	10

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145	Physicochemical properties of bamboo leaf aerogels synthesized via different modes of gelation. <i>Applied Surface Science</i> , 2014, 301, 161-172.	3.1	10
146	Mathematical analysis of the effects of operating conditions and rheological behaviour of reaction medium on biodiesel synthesis under ultrasound irradiation. <i>Fuel</i> , 2016, 184, 637-647.	3.4	10
147	Synthesis and characterization of sugarcane bagasse cellulose capped silver nanoparticle using ultrasonic irradiation for the adsorption of heavy metal. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2433.	0.8	10
148	Temperature Compensation in Determining of Remazol Black B Concentrations Using Plastic Optical Fiber Based Sensor. <i>Sensors</i> , 2014, 14, 15836-15848.	2.1	9
149	Factors encouraging sustainability integration into institutions of higher education. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 911-922.	1.8	9
150	Reactivity, stability, and thermodynamic feasibility of $H_2/O_2/H_2O$ at graphite cathode: Application of quantum chemical calculations in MFCs. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1291-1304.	1.3	9
151	Fenton oxidation treatment of recalcitrant dye in fluidized bed reactor: Role of SiO_2 as carrier and its interaction with fenton's reagent. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13188.	1.3	9
152	Liquid-liquid mass transfer studies in various stirred vessel designs. <i>Reviews in Chemical Engineering</i> , 2015, 31, .	2.3	8
153	The effect of various designs of six-curved blade impellers on reaction rate analysis in liquid-liquid mixing vessel. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 91, 440-450.	2.5	8
154	Determining the feasibility of H_2O_2 production at a graphite cathode using bond dissociation energy: comparing simple and nitrogen doped cathodes. <i>Research on Chemical Intermediates</i> , 2019, 45, 3311-3327.	1.3	8
155	Biogenic integrated ZnO/Ag nanocomposite: Surface analysis and in vivo practices for the management of type 1 diabetes complications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110878.	2.5	8
156	Production of superlight Saraline drill-in fluid. <i>Chemistry and Technology of Fuels and Oils</i> , 2011, 46, 401-404.	0.2	7
157	Treatment of textile effluent containing recalcitrant dyes using MOF derived Fe-ZSM-5 heterogeneous catalyst. <i>RSC Advances</i> , 2016, 6, 51078-51088.	1.7	7
158	Adsorption and Oxidation Techniques to Remove Organic Pollutants from Water. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 249-300.	0.3	7
159	Interaction patterns in fluidized-bed Fenton process for the degradation of recalcitrant pollutants: theoretical and experimental insights. <i>Chemical Papers</i> , 2019, 73, 2591-2602.	1.0	7
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