

Abdul Aziz Abdul Raman

List of Publications by Citations

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199
papers

9,517
citations

44
h-index

93
g-index

208
ext. papers

11,027
ext. citations

5.2
avg, IF

7.01
L-index

#	Paper	IF	Citations
199	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	10.3	550
198	Review on the application of modified iron oxides as heterogeneous catalysts in Fenton reactions. <i>Journal of Cleaner Production</i> , 2014 , 64, 24-35	10.3	453
197	High quality biodiesel and its diesel engine application: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 1999-2008	16.2	432
196	Glycerol production and its applications as a raw material: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 118-127	16.2	372
195	The effects of catalysts in biodiesel production: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 14-26	6.3	346
194	Application of doped photocatalysts for organic pollutant degradation - A review. <i>Journal of Environmental Management</i> , 2017 , 198, 78-94	7.9	329
193	Biodiesel separation and purification: A review. <i>Renewable Energy</i> , 2011 , 36, 437-443	8.1	324
192	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	6.3	312
191	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	16.2	293
190	Treatment technologies for petroleum refinery effluents: A review. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 95-105	5.5	289
189	A review of the applications of organo-functionalized magnetic graphene oxide nanocomposites for heavy metal adsorption. <i>Chemosphere</i> , 2018 , 193, 1004-1017	8.4	251
188	Activity of solid acid catalysts for biodiesel production: A critical review. <i>Applied Catalysis A: General</i> , 2014 , 470, 140-161	5.1	240
187	Production of biodiesel using high free fatty acid feedstocks. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 3275-3285	16.2	193
186	Recent advances in DNA-based electrochemical biosensors for heavy metal ion detection: A review. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 125-139	11.8	182
185	The effects of water on biodiesel production and refining technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 3456-3470	16.2	179
184	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	16.2	168
183	Recent advances and prospects of catalytic advanced oxidation process in treating textile effluents. <i>Reviews in Chemical Engineering</i> , 2016 , 32, 1-47	5	156

182	A packed bed membrane reactor for production of biodiesel using activated carbon supported catalyst. <i>Bioresource Technology</i> , 2011 , 102, 1095-102	11	143
181	Refining technologies for the purification of crude biodiesel. <i>Applied Energy</i> , 2011 , 88, 4239-4251	10.7	142
180	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	5.5	127
179	Potassium hydroxide catalyst supported on palm shell activated carbon for transesterification of palm oil. <i>Fuel Processing Technology</i> , 2010 , 91, 1378-1385	7.2	126
178	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	6	116
177	A comparison of central composite design and Taguchi method for optimizing Fenton process. <i>Scientific World Journal, The</i> , 2014 , 2014, 869120	2.2	113
176	Phytoremediation of soil contaminated with used lubricating oil using <i>Jatropha curcas</i> . <i>Journal of Hazardous Materials</i> , 2010 , 179, 891-4	12.8	111
175	Adsorption of arsenic using chitosan magnetic graphene oxide nanocomposite. <i>Journal of Environmental Management</i> , 2019 , 246, 547-556	7.9	107
174	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	10.3	103
173	Membrane biodiesel production and refining technology: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 5051-5062	16.2	93
172	Oxidative mineralisation of petroleum refinery effluent using Fenton-like process. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 298-307	5.5	87
171	Thermal conductivity variation for methanol based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 350-356	4.9	85
170	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	7.9	83
169	Performance evaluation of biodiesel from used domestic waste oils: A review. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 164-179	5.5	75
168	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	7.9	61
167	Optimization and modeling of extraction of solid coconut waste oil. <i>Journal of Food Engineering</i> , 2013 , 114, 228-234	6	61
166	Density of Palm Oil-Based Methyl Ester. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 877-880	2.8	61
165	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	5.5	59

164	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	8.9	57
163	Sonochemical reactors: Review on features, advantages and limitations. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 63, 302-314	16.2	56
162	Biodegradation of used motor oil in soil using organic waste amendments. <i>Biotechnology Research International</i> , 2012 , 2012, 587041		55
161	Integrated ozone-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	3.7	51
160	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	7.9	51
159	Solid acid-catalyzed biodiesel production from microalgal oil—the dual advantage. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 113-121	6.8	51
158	Thermophysical properties of methanol based Al ₂ O ₃ nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 414-419	4.9	50
157	Enhanced Biodegradation of Used Engine Oil in Soil Amended with Organic Wastes. <i>Water, Air, and Soil Pollution</i> , 2010 , 209, 173-179	2.6	50
156	High quality biodiesel obtained through membrane technology. <i>Journal of Membrane Science</i> , 2012 , 421-422, 154-164	9.6	48
155	Fibre optic sensors for selected wastewater characteristics. <i>Sensors</i> , 2013 , 13, 8640-68	3.8	43
154	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	2.8	43
153	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	6	43
152	Hybrid of Fenton and sequencing batch reactor for petroleum refinery wastewater treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 25, 186-191	6.3	40
151	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	10.6	40
150	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	8.3	40
149	Investigation, modelling and reviewing the effective parameters in microwave-assisted transesterification. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 762-777	16.2	38
148	LIQUID-LIQUID MIXING IN STIRRED VESSELS: A REVIEW. <i>Chemical Engineering Communications</i> , 2013 , 200, 595-627	2.2	38
147	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	4.9	37

146	Reactive extraction of solid coconut waste to produce biodiesel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013 , 44, 233-238	5.3	36
145	Niobium substituted magnetite as a strong heterogeneous Fenton catalyst for wastewater treatment. <i>Applied Surface Science</i> , 2015 , 351, 175-187	6.7	35
144	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	2.1	35
143	Synergy of adsorption and advanced oxidation processes in recalcitrant wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1125-1142	13.3	35
142	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	5.5	34
141	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	5.3	33
140	From bamboo leaf to aerogel: Preparation of water glass as a precursor. <i>Journal of Non-Crystalline Solids</i> , 2014 , 386, 76-84	3.9	33
139	Review on Measurement Techniques for Drop Size Distribution in a Stirred Vessel. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16085-16094	3.9	32
138	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	8.3	32
137	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	10.6	32
136	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	4.6	31
135	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	6.7	30
134	Review on Applicable breakup/coalescence models in turbulent liquid-liquid flows. <i>Reviews in Chemical Engineering</i> , 2013 , 29,	5	30
133	Energy intensified integrated advanced oxidation technology for the treatment of recalcitrant industrial wastewater. <i>Journal of Cleaner Production</i> , 2019 , 206, 1025-1040	10.3	30
132	Cleaner production implementation in a fruit juice production plant. <i>Journal of Cleaner Production</i> , 2015 , 101, 215-221	10.3	29
131	Two-Step Purification of Glycerol as a Value Added by Product From the Biodiesel Production Process. <i>Frontiers in Chemistry</i> , 2019 , 7, 774	5	29
130	Investigation of mass transfer intensification under power ultrasound irradiation using 3D computational simulation: A comparative analysis. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 504-518	8.9	28
129	Effects of niobium and molybdenum impregnation on adsorption capacity and Fenton catalytic activity of magnetite. <i>RSC Advances</i> , 2015 , 5, 87535-87549	3.7	28

128	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	2.1	28
127	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	4.5	28
126	Degradation performance and cost implication of UV-integrated advanced oxidation processes for wastewater treatments. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	28
125	Status of biodiesel research and development in Pakistan. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 4396-4405	16.2	28
124	Phytotreatment of soil contaminated with used lubricating oil using Hibiscus cannabinus. <i>Biodegradation</i> , 2012 , 23, 277-86	4.1	28
123	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	4.4	28
122	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	5.1	27
121	Development of an advanced chemical oxidation wastewater treatment system for the batik industry in Malaysia. <i>RSC Advances</i> , 2016 , 6, 25222-25241	3.7	27
120	Densities of Ethyl Esters Produced from Different Vegetable Oils. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2222-2225	2.8	25
119	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	5.3	24
118	Cohesiveness and Flowability Properties of Silica Gel Powder. <i>Physics International</i> , 2010 , 1, 16-21	1	24
117	Electrocoagulation of Congo Red dye-containing wastewater: Optimization of operational parameters and process mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104055	6.8	23
116	A comparative fluid flow characterisation in a low frequency/high power sonoreactor and mechanical stirred vessel. <i>Ultrasonics Sonochemistry</i> , 2015 , 27, 359-373	8.9	22
115	Mechanistic analysis of cavitation assisted transesterification on biodiesel characteristics. <i>Ultrasonics Sonochemistry</i> , 2015 , 22, 463-73	8.9	21
114	TiO ₂ catalyst deactivation in textile wastewater treatment: Current challenges and future advances. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 11-21	6.3	21
113	Recent advances, challenges and prospects of in situ production of hydrogen peroxide for textile wastewater treatment in microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1466-1480	3.5	21
112	Synthesis and characterization of magnetic graphene oxide for arsenic removal from aqueous solution. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1508-1516	2.6	21
111	Mean drop size correlations and population balance models for liquid-liquid dispersion. <i>AIChE Journal</i> , 2015 , 61, 1129-1145	3.6	20

110	Review on gas-liquid mixing analysis in multiscale stirred vessel using CFD. <i>Reviews in Chemical Engineering</i> , 2012 , 28,	5	20
109	Fenton oxidative treatment of petroleum refinery wastewater: process optimization and sludge characterization. <i>RSC Advances</i> , 2015 , 5, 68159-68168	3.7	19
108	Palm Frond and Spikelet as Environmentally Benign Alternative Solid Acid Catalysts for Biodiesel Production. <i>BioResources</i> , 2015 , 10,	1.3	19
107	Sensitivity analysis of the photoactivity of Cu ^{II} /TiO ₂ /ZnO during advanced oxidation reaction by Adaptive Neuro-Fuzzy Selection Technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 77, 155-174	4.6	18
106	Selected physical properties of binary mixtures of crude glycerol and methanol at various temperatures. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 1039-1043	6.3	18
105	Sensitivity analysis of catalyzed-transesterification as a renewable and sustainable energy production system by adaptive neuro-fuzzy methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 64, 47-58	5.3	18
104	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. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 60, 247-257	5.3	18
103	Activated carbon as carrier in fluidized bed reactor for Fenton oxidation of recalcitrant dye: Oxidation-adsorption synergy and surface interaction. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101001	6.7	18
102	In situ production of hydrogen peroxide in a microbial fuel cell for recalcitrant wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 1825-1840	3.5	17
101	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	7.9	17
100	Removal of residual palm oil-based biodiesel catalyst using membrane ultra-filtration technique: An optimization study. <i>AEJ - Alexandria Engineering Journal</i> , 2014 , 53, 705-715	6.1	17
99	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	10.3	17
98	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	14.7	17
97	Measuring powder flowability with a modified Warren Spring cohesion tester. <i>Particuology</i> , 2011 , 9, 148-154	2.14	16
96	Investigation on stability and viscosity of SiO ₂ /H ₂ O (methanol) nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 72, 16-22	5.8	15
95	Experimental Investigations in Liquid-Liquid Dispersion System: Effects of Dispersed Phase Viscosity and Impeller Speed. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6554-6561	3.9	15
94	Investigation of convection and diffusion during biodiesel production in packed membrane reactor using 3D simulation. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 1493-1504	6.3	15
93	Effect of nitrogen doping on graphite cathode for hydrogen peroxide production and power generation in MFC. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 76, 89-100	5.3	14

92	Comprehensive study on the influence of molybdenum substitution on characteristics and catalytic performance of magnetite nanoparticles. <i>Research on Chemical Intermediates</i> , 2018 , 44, 883-900	2.8	14
91	TiO ₂ /Al ₂ O ₃ membrane reactor equipped with a methanol recovery unit to produce palm oil biodiesel. <i>International Journal of Energy Research</i> , 2012 , 36, 120-129	4.5	14
90	A Comparative Study on a Cationic Dye Removal through Homogeneous and Heterogeneous Fenton Oxidation Systems. <i>Acta Chimica Slovenica</i> , 2018 , 65, 166-171	1.9	14
89	Acidity and catalytic performance of Yb-doped SO ₄ ²⁻ /Zr in comparison with SO ₄ ²⁻ /Zr catalysts synthesized via different preparatory conditions for biodiesel production. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 195-204	5.3	13
88	Enhancement of Treatment Efficiency of Recalcitrant Wastewater Containing Textile Dyes Using a Newly Developed Iron Zeolite Socony Mobil-5 Heterogeneous Catalyst. <i>PLoS ONE</i> , 2015 , 10, e0141348	3.7	13
87	Prediction of Palm Oil-Based Methyl Ester Biodiesel Density Using Artificial Neural Networks. <i>Journal of Applied Sciences</i> , 2008 , 8, 1938-1943	0.3	13
86	Predicting the degradation potential of Acid blue 113 by different oxidants using quantum chemical analysis. <i>Heliyon</i> , 2019 , 5, e02396	3.6	12
85	Multiple-impeller stirred vessel studies. <i>Reviews in Chemical Engineering</i> , 2014 , 30,	5	12
84	Characterisation of bio-silica synthesised from cogon grass (<i>Imperata cylindrica</i>). <i>Powder Technology</i> , 2014 , 254, 206-213	5.2	12
83	Using D-optimal experimental design to optimise remazol black B mineralisation by Fenton-like peroxidation. <i>Environmental Technology (United Kingdom)</i> , 2012 , 33, 1111-21	2.6	12
82	Estimation of Vegetable Oil-Based Ethyl Esters Biodiesel Densities Using Artificial Neural Networks. <i>Journal of Applied Sciences</i> , 2008 , 8, 3005-3011	0.3	12
81	3D Simulation of fatty acid methyl ester production in a packed membrane reactor. <i>Fuel Processing Technology</i> , 2014 , 118, 7-19	7.2	11
80	Inclusion of human errors assessment in failure frequency analysis—A case study for the transportation of ammonia by rail in Malaysia. <i>Process Safety Progress</i> , 2009 , 28, 60-67	1	11
79	Sequential Optimization for Minimizing Material Cost and Treatment Time of Fenton Oxidation for Textile Wastewater Treatment. <i>Chemical Engineering Communications</i> , 2017 , 204, 873-883	2.2	10
78	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	7.1	10
77	Maximizing gas-liquid interfacial area in a three-phase stirred vessel operating at high solids concentrations. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 104, 133-147	3.7	10
76	Integrated ozone-photo-Fenton process for the removal of pollutant from industrial wastewater. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 516-522	3.2	10
75	Stimulated Biodegradation of Used Lubricating Oil in Soil Using Organic Wastes. <i>Malaysian Journal of Science</i> , 2009 , 28, 127-133	1	10

74	Cathode modification to enhance the performance of in-situ fenton oxidation in microbial fuel cells. <i>Environmental Progress and Sustainable Energy</i> , 2017 , 36, 382-393	2.5	9
73	Fractional factorial design optimization of nontraditional completion fluid for perforation with underbalance. <i>Chemistry and Technology of Fuels and Oils</i> , 2010 , 46, 340-350	0.4	9
72	Treatment of oil refinery effluent using bio-adsorbent developed from activated palm kernel shell and zeolite.. <i>RSC Advances</i> , 2020 , 10, 24079-24094	3.7	8
71	Effect of ultrasonic irradiations on gas-liquid mass transfer coefficient (kLa); Experiments and modelling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 79, 119-129	4.6	8
70	Challenges and recommendations for using membranes in wastewater-based microbial fuel cells for in situ Fenton oxidation for textile wastewater treatment. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	8
69	Quantitative risk assessment for the transport of ammonia by rail. <i>Process Safety Progress</i> , 2010 , 29, 60-63	1	8
68	Recovery and reutilisation of copper from metal hydroxide sludges. <i>Clean Technologies and Environmental Policy</i> , 2008 , 10, 131-136	4.3	8
67	Agitation energy efficiency in gas-solid-liquid stirred vessels operating at ultra-high solids concentrations. <i>Chemical Engineering Research and Design</i> , 2016 , 111, 34-48	5.5	8
66	Reactivity, stability, and thermodynamic feasibility of H ₂ O ₂ /H ₂ O at graphite cathode: Application of quantum chemical calculations in MFCs. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 1297-1304	7.5	8
65	Analysis and Optimization of Ultrasound-Assisted Alkaline Palm Oil Transesterification by RSM and ANN-GA. <i>Chemical Engineering Communications</i> , 2017 , 204, 365-381	2.2	7
64	Hybrid neuro-fuzzy methods for estimation of ultrasound and mechanically stirring Influences on biodiesel synthesis through transesterification. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 103, 62-76	4.6	7
63	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	2.5	7
62	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	6	7
61	Physicochemical properties of bamboo leaf aerogels synthesized via different modes of gelation. <i>Applied Surface Science</i> , 2014 , 301, 161-172	6.7	7
60	Factors encouraging sustainability integration into institutions of higher education. <i>International Journal of Environmental Science and Technology</i> , 2017 , 14, 911-922	3.3	7
59	Production of superlight Saraline drill-in fluid. <i>Chemistry and Technology of Fuels and Oils</i> , 2011 , 46, 401-404	4	7
58	Textile wastewater treatment efficiency by Fenton oxidation with integration of membrane separation system. <i>Chemical Engineering Communications</i> , 2019 , 206, 541-557	2.2	7
57	Experimental and modeling evaluation of droplet size in immiscible liquid-liquid stirred vessel using various impeller designs. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 100, 26-36	5.3	6

56	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	1.3	6
55	Systematic review on the implementation methodologies of inherent safety in chemical process. <i>Journal of Loss Prevention in the Process Industries</i> , 2020 , 65, 104092	3.5	6
54	Temperature compensation in determining of Remazol black B concentrations using plastic optical fiber based sensor. <i>Sensors</i> , 2014 , 14, 15836-48	3.8	6
53	Coconut waste as a source for biodiesel production 2010 ,		6
52	Magnetic graphene oxide-biomass activated carbon composite for dye removal. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 2179-2191	2.8	6
51	Waste-to-energy: Coal-like refuse derived fuel from hazardous waste and biomass mixture. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 655-664	5.5	6
50	Treatment of textile effluent containing recalcitrant dyes using MOF derived Fe-ZSM-5 heterogeneous catalyst. <i>RSC Advances</i> , 2016 , 6, 51078-51088	3.7	6
49	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	4.6	6
48	Effect of Various Curved-Blade Impeller Geometries on Drop Size in a Liquid-Liquid Stirred Vessel. <i>Chemical Engineering Communications</i> , 2017 , 204, 884-896	2.2	5
47	Elemental distribution and porosity enhancement in advanced nano bimetallic catalyst. <i>Powder Technology</i> , 2015 , 280, 42-52	5.2	5
46	Solid-liquid mixing analysis in stirred vessels. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	5
45	A Novel Approach To Quantify Scale Thickness and Distribution in Stirred Vessels. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14582-14591	3.9	5
44	Investigation on stability and density of methanol based TiO ₂ nanofluids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 88, 012057	0.4	5
43	A Tait-like Equation for Estimating the Density of Nontraditional Super Lightweight Completion Fluid at High Pressure and Temperature. <i>Petroleum Science and Technology</i> , 2013 , 31, 44-50	1.4	5
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