

Abdul Aziz Abdul Raman

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.

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	A critical analysis on biogas production and utilisation potential from palm oil mill effluent. <i>Journal of Cleaner Production</i> , 2022 , 132040	10.3	0
198	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
197	Metal-Organic Frameworks for Heavy Metal Removal 2021 , 321-356		1
196	Application of magnetic-biomass-derived activated carbon as an adsorbent for the treatment of recalcitrant wastewater. <i>Chemical Papers</i> , 2021 , 75, 5279-5295	1.9	1
195	Developing friendlier biodiesel production process via systematic inherent safety interventions. <i>Journal of Cleaner Production</i> , 2021 , 308, 127291	10.3	3
194	Dynamic Inherently Safer Modifications: Metric development and its validation for fire and explosion prevention. <i>Journal of Loss Prevention in the Process Industries</i> , 2021 , 71, 104483	3.5	
193	Physicochemical and biological status of Aghlagan river, Iran: effects of seasonal changes and point source pollution. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 15339-15349	5.1	2
192	Review on the Inherently Safer Design for chemical processes: Past, present and future. <i>Journal of Cleaner Production</i> , 2021 , 305, 127154	10.3	4
191	Inherent health oriented design for preventing sick building syndrome during planning stage. <i>Journal of Building Engineering</i> , 2021 , 44, 103285	5.2	1
190	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
189	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
188	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
187	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
186	Systematic inherent safety and its implementation in chlorine liquefaction process. <i>Journal of Loss Prevention in the Process Industries</i> , 2020 , 65, 104133	3.5	4
185	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
184	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
183	Macromixing study for various designs of impellers in a stirred vessel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 148, 107794	3.7	5

182	Magnetic graphene oxide-biomass activated carbon composite for dye removal. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 2179-2191	2.8	6
181	Co-regulative effects of chitosan-fennel seed extract system on the hormonal and biochemical factors involved in the polycystic ovarian syndrome. <i>Materials Science and Engineering C</i> , 2020 , 117, 1113-1131	8.3	5
180	Response surface methodology optimization of integrated fluidized bed adsorption-Bentonite oxidation for removal of Reactive Black 5. <i>Chemical Engineering Communications</i> , 2020 , 207, 1567-1578	2.2	1
179	Predicting the degradation potential of Acid blue 113 by different oxidants using quantum chemical analysis. <i>Heliyon</i> , 2019 , 5, e02396	3.6	12
178	Adsorption of arsenic using chitosan magnetic graphene oxide nanocomposite. <i>Journal of Environmental Management</i> , 2019 , 246, 547-556	7.9	107
177	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
176	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	1.9	3
175	Determining the feasibility of H ₂ O 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	2.8	4
174	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
173	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
172	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
171	EFFECT OF DISC-BLADE INTERCEPTING ANGLE ON MIXING PERFORMANCE IN A MULTIPHASE STIRRED VESSEL. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 811-821	1.7	2
170	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
169	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
168	Synergy of adsorption and advanced oxidation processes in recalcitrant wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1125-1142	13.3	35
167	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
166	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
165	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

164	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
163	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
162	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
161	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, 1291-1304 ⁸	2.5	304
160	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
159	Size distribution of bubbles in agitated viscous Newtonian and non-Newtonian solutions. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018 , 13, e2267	1.3	3
158	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
157	Adsorption and Oxidation Techniques to Remove Organic Pollutants from Water. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 249-300	0.8	4
156	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
155	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
154	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
153	Parametric Study and Process Evaluation of Fenton Oxidation: Application of Sequential Response Surface Methodology and Adaptive Neuro-Fuzzy Inference System Computing Technique. <i>Chemical Engineering Communications</i> , 2017 , 204, 658-676	2.2	1
152	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
151	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
150	Application of doped photocatalysts for organic pollutant degradation - A review. <i>Journal of Environmental Management</i> , 2017 , 198, 78-94	7.9	329
149	Mass Transfer Study of Newtonian Fluids with Different Viscosity under Low-Frequency, High-Power Ultrasound Irradiation. <i>Chemical Engineering Communications</i> , 2017 , 204, 864-872	2.2	2
148	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
147	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

146	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
145	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
144	Surface transformations of TiO ₂ anatase deactivated in methylene blue solution with Cl ⁻ ions in the colloid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 80, 203-214	5.3	2
143	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
142	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
141	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
140	Transition Metal-Substituted Magnetite as an Innovative Adsorbent and Heterogeneous Catalyst for Wastewater Treatment 2017 , 225-247		2
139	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
138	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
137	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
136	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
135	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
134	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
133	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
132	Synthesis, characterization and electrochemical study of Mn-doped TiO ₂ decorated polypyrrole nanotubes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 210, 012009	0.4	1
131	Treatment of Recalcitrant Waste 2017 , 409-442		2
130	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
129	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

128	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
127	Determination of kinetic parameters for thermal decomposition of bamboo leaf to extract bio-silica. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016 , 38, 3249-3254	1.6	4
126	Dye Concentrations Measurement Using Mach-Zehnder Interferometer Sensor and Modeled by ANFIS. <i>IEEE Sensors Journal</i> , 2016 , 16, 8044-8050	4	3
125	An Insight into Physical and Chemical Impacts of Cavitation under Different Operational Conditions in Biodiesel Synthesis under Ultrasound Irradiation. <i>Journal of Chemical Engineering of Japan</i> , 2016 , 49, 756-770	0.8	1
124	Sonochemical reactors: Review on features, advantages and limitations. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 63, 302-314	16.2	56
123	Study of sparger location on solid suspension in a triple-impeller stirred vessel. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016 , 11, 229-236	1.3	2
122	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
121	Dye concentration determination with cross-sensitivity compensation. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 450-456	8.5	3
120	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
119	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
118	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
117	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
116	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
115	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
114	Effect of ultrasonic irradiations on gas-liquid mass transfer coefficient (k _L a); Experiments and modelling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 79, 119-129	4.6	8
113	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
112	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
111	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

110	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
109	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
108	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
107	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
106	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
105	Bamboo Leaf Aerogel Opacified with Activated Carbon. <i>Transactions of the Indian Ceramic Society</i> , 2016 , 75, 175-180	1.8	2
104	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
103	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
102	Fenton oxidative treatment of petroleum refinery wastewater: process optimization and sludge characterization. <i>RSC Advances</i> , 2015 , 5, 68159-68168	3.7	19
101	Elemental distribution and porosity enhancement in advanced nano bimetallic catalyst. <i>Powder Technology</i> , 2015 , 280, 42-52	5.2	5
100	Liquid-liquid mass transfer studies in various stirred vessel designs. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	3
99	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
98	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
97	Niobium substituted magnetite as a strong heterogeneous Fenton catalyst for wastewater treatment. <i>Applied Surface Science</i> , 2015 , 351, 175-187	6.7	35
96	Solid-liquid mixing analysis in stirred vessels. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	5
95	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
94	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
93	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

92	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
91	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
90	Mechanistic analysis of cavitation assisted transesterification on biodiesel characteristics. <i>Ultrasonics Sonochemistry</i> , 2015 , 22, 463-73	8.9	21
89	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
88	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
87	Degradation and mineralization of phenol compounds with goethite catalyst and mineralization prediction using artificial intelligence. <i>PLoS ONE</i> , 2015 , 10, e0119933	3.7	1
86	Palm Frond and Spikelet as Environmentally Benign Alternative Solid Acid Catalysts for Biodiesel Production. <i>BioResources</i> , 2015 , 10,	1.3	19
85	Cleaner production implementation in a fruit juice production plant. <i>Journal of Cleaner Production</i> , 2015 , 101, 215-221	10.3	29
84	Degradation performance and cost implication of UV-integrated advanced oxidation processes for wastewater treatments. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	28
83	Dual Output Approach in Dye Concentrations Determination Using Non-Adiabatic Tapered Fiber. <i>IEEE Sensors Journal</i> , 2015 , 15, 3903-3908	4	3
82	Maximizing Impeller Power Efficiency in Gas-Solid-Liquid Stirred Vessels through Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11915-11928	3.9	4
81	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
80	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
79	Mean drop size correlations and population balance models for liquid-liquid dispersion. <i>AIChE Journal</i> , 2015 , 61, 1129-1145	3.6	20
78	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
77	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
76	REDUCTION OF TOTAL SUSPENDED SOLIDS AND CHEMICAL OXYGEN DEMAND FROM PALM OIL MILL EFFLUENTS USING THE ELECTROCOAGULATION PROCESS. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 2897-2903	0.6	
75	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

74	Activity of solid acid catalysts for biodiesel production: A critical review. <i>Applied Catalysis A: General</i> , 2014 , 470, 140-161	5.1	240
73	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
72	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
71	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
70	Thermal Insulative Performance of Bamboo Leaf Aerogel Opacified Using Activated Carbon Compared with Carbon Black. <i>Advanced Materials Research</i> , 2014 , 941-944, 2482-2485	0.5	
69	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
68	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
67	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
66	Physicochemical properties of bamboo leaf aerogels synthesized via different modes of gelation. <i>Applied Surface Science</i> , 2014 , 301, 161-172	6.7	7
65	Multiple-impeller stirred vessel studies. <i>Reviews in Chemical Engineering</i> , 2014 , 30,	5	12
64	Thermal conductivity variation for methanol based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 350-356	4.9	85
63	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
62	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
61	Simulation for supporting scale-up of a fluidized bed reactor for advanced water oxidation. <i>Scientific World Journal, The</i> , 2014 , 2014, 348974	2.2	4
60	Kinetic modeling of a heterogeneous Fenton oxidative treatment of petroleum refining wastewater. <i>Scientific World Journal, The</i> , 2014 , 2014, 252491	2.2	0
59	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
58	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
57	Characterisation of bio-silica synthesised from cogon grass (<i>Imperata cylindrica</i>). <i>Powder Technology</i> , 2014 , 254, 206-213	5.2	12

56	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
55	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
54	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
53	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
52	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
51	The effects of catalysts in biodiesel production: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 14-26	6.3	346
50	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
49	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
48	Optimization and modeling of extraction of solid coconut waste oil. <i>Journal of Food Engineering</i> , 2013 , 114, 228-234	6	61
47	Fibre optic sensors for selected wastewater characteristics. <i>Sensors</i> , 2013 , 13, 8640-68	3.8	43
46	LIQUID-LIQUID MIXING IN STIRRED VESSELS: A REVIEW. <i>Chemical Engineering Communications</i> , 2013 , 200, 595-627	2.2	38
45	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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