

Mohamed Kheireddine Aroua

List of Publications by Year in descending order

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252
papers

16,715
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18482
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all docs

254
docs citations

254
times ranked

16283
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar derived from fruit by-products using pyrolysis process for the elimination of Pb(II) ion: An updated review. Chemosphere, 2022, 287, 132250.	8.2	22
2	Prediction of B20 Storage Tank Precipitate Removal Based on Biodiesel Monoglyceride Content. ChemEngineering, 2022, 6, 7.	2.4	0
3	Activated carbon-based electrodes for two-steps catalytic/ electrocatalytic reduction of glycerol in Amberlyst-15 mediator. Chemosphere, 2022, , 133949.	8.2	3
4	Glycerol Electrocatalytic Reduction Using an Activated Carbon Composite Electrode: Understanding the Reaction Mechanisms and an Optimization Study. Frontiers in Chemistry, 2022, 10, 845614.	3.6	2
5	Physicochemical and oxidative stability of indigenous traditional tengkawang butter as potential cocoa butter equivalent (CBE). International Journal of Food Properties, 2022, 25, 780-791.	3.0	3
6	A Systematic Review of Amino Acid-Based Adsorbents for CO ₂ Capture. Energies, 2022, 15, 3753.	3.1	11
7	A review of recent progress on electrocatalysts toward efficient glycerol electrooxidation. Reviews in Chemical Engineering, 2021, 37, 779-811.	4.4	28
8	Structure–selectivity relationship of a zirconia-based heterogeneous acid catalyst in the production of green mono- and dioleate product. Clean Technologies and Environmental Policy, 2021, 23, 19-29.	4.1	4
9	The effects of 1-ethyl-3-methylimidazolium bis (trifluoromethylsulfonyl) imide [emim] [NTf ₂] IL: acetone compositions on the amount, homogeneity and chemical stability of immobilized IL in hollow fiber-supported ionic liquid membranes (SILMs). Chemical Engineering Communications, 2021, 208, 925-936.	2.6	1
10	Harvesting Electricity from CO ₂ Emission: Opportunities, Challenges and Future Prospects. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1061-1081.	4.9	3
11	Oxidative hydrothermal surface modification of activated carbon for sevoflurane removal. Chemosphere, 2021, 264, 128535.	8.2	10
12	Process optimization and kinetics of microwave assisted transesterification of crude glycerol for the production of glycerol carbonate. Sustainable Energy and Fuels, 2021, 5, 274-282.	4.9	12
13	Mechanistic insights into carbon dioxide utilization by superoxide ion generated electrochemically in ionic liquid electrolyte. Physical Chemistry Chemical Physics, 2021, 23, 1114-1126.	2.8	7
14	High Yield Super-Hydrophobic Carbon Nanomaterials Using Cobalt/Iron Co-Catalyst Impregnated on Powder Activated Carbon. Processes, 2021, 9, 134.	2.8	2
15	Kinetic parameters for glycerol electrooxidation over nitrogen- and fluorine-doped composite carbon: Dynamic electrochemical impedance spectroscopy analysis based. Journal of Electroanalytical Chemistry, 2021, 883, 115043.	3.8	4
16	The application of polymer containing materials in CO ₂ capturing via absorption and adsorption methods. Journal of CO ₂ Utilization, 2021, 48, 101526.	6.8	41
17	Thanaka (H. crenulata, N. crenulata, L. acidissima L.): A Systematic Review of Its Chemical, Biological Properties and Cosmeceutical Applications. Cosmetics, 2021, 8, 68.	3.3	6
18	Adsorption of CO ₂ on palm shell based activated carbon modified by deep eutectic solvent: Breakthrough adsorption study. Journal of Environmental Chemical Engineering, 2021, 9, 105333.	6.7	36

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19	Hybridized Fe/Ru-SiMWCNT-ionic liquid nanofluid for CO ₂ conversion into carbamate using superoxide ion. Journal of Environmental Chemical Engineering, 2021, 9, 105285.	6.7	8
20	Statistical Optimization and Kinetic Modeling of Lipase-Catalyzed Synthesis of Diacylglycerol in the Mixed Solvent System of Acetone/ <i>tert</i> -Butanol. Industrial & Engineering Chemistry Research, 2021, 60, 14026-14037.	3.7	2
21	Current State and Perspectives on Transesterification of Triglycerides for Biodiesel Production. Catalysts, 2021, 11, 1121.	3.5	53
22	Mass transfer coefficients of carbon dioxide in aqueous blends of monoethanolamine and glycerol using wetted-wall column. Journal of Environmental Chemical Engineering, 2021, 9, 106618.	6.7	9
23	Transforming Plastic Waste into Porous Carbon for Capturing Carbon Dioxide: A Review. Energies, 2021, 14, 8421.	3.1	33
24	Enhancement of ionic mass transfer coefficient using a unique electrocoagulation reactor with rotating impeller anode. Separation Science and Technology, 2020, 55, 1167-1176.	2.5	5
25	Production of palm-based glycol ester over solid acid catalysed esterification of lauric acid via microwave heating. Chemical Engineering Journal, 2020, 382, 122975.	12.7	9
26	Supported ionic liquid membranes (SILMs) as a contactor for selective absorption of CO ₂ /O ₂ by aqueous monoethanolamine (MEA). Separation and Purification Technology, 2020, 230, 115849.	7.9	23
27	Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons. Chemosphere, 2020, 239, 124839.	8.2	41
28	Recent trends in the development of adsorption technologies for carbon dioxide capture: A brief literature and patent reviews (2014–2018). Journal of Cleaner Production, 2020, 253, 119707.	9.3	97
29	Investigating the electrocatalytic oxidation of glycerol on simultaneous nitrogen- and fluorine-doped on activated carbon black composite. Diamond and Related Materials, 2020, 101, 107626.	3.9	9
30	A review of recent developments on kinetics parameters for glycerol electrochemical conversion – A by-product of biodiesel. Science of the Total Environment, 2020, 705, 135137.	8.0	57
31	Tailoring of activated carbon with ammonia for enhanced anaesthetic sevoflurane adsorption. Separation and Purification Technology, 2020, 251, 117404.	7.9	0
32	Preparation and characterization of electrode from annealed nano-diamond particles with boric acid for anodic oxidation process. Electrochimica Acta, 2020, 362, 137221.	5.2	9
33	Enrichment of surface oxygen functionalities on activated carbon for adsorptive removal of sevoflurane. Chemosphere, 2020, 260, 127496.	8.2	15
34	Authors'™ response to comments on Ang et al. – Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons – Chemosphere, 2020, 247, 126389.	8.2	2
35	Experimental Densities of Binary mixture of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide or sulfolane with monoethanolamine and their molecular interaction by COSMO-RS. IOP Conference Series: Materials Science and Engineering, 2020, 778, 012022.	0.6	0
36	Bimetallic Mo–Fe Co-Catalyst-Based Nano-Carbon Impregnated on PAC for Optimum Super-Hydrophobicity. Symmetry, 2020, 12, 1242.	2.2	2

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37	Catalyst Characteristics and Performance of Silica-Supported Zinc for Hydrodeoxygenation of Phenol. <i>Energies</i> , 2020, 13, 2802.	3.1	3
38	Effect of Reaction Medium Mixture on the Lipase Catalyzed Synthesis of Diacylglycerol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9869-9881.	3.7	10
39	CO ₂ Absorption/Desorption in Aqueous Single and Novel Hybrid Solvents of Glycerol and Monoethanolamine in a Pilot-Scale Packed Bed Column. <i>Energy & Fuels</i> , 2020, 34, 8503-8515.	5.1	8
40	Editorial: From Glycerol to Value-Added Products. <i>Frontiers in Chemistry</i> , 2020, 8, 69.	3.6	16
41	Gas-phase hydrodeoxygenation of phenol over Zn/SiO ₂ catalysts: Effects of zinc load, temperature, weight hourly space velocity, and H ₂ volumetric flow rate. <i>Biomass and Bioenergy</i> , 2020, 138, 105556.	5.7	12
42	A review on activated carbon adsorption for volatile organic compounds (VOCs). <i>Reviews in Chemical Engineering</i> , 2019, 35, 649-668.	4.4	90
43	Recent development in the electrochemical conversion of carbon dioxide: Short review. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	8
44	Combined solar electrocoagulation and adsorption processes for Pb(II) removal from aqueous solution. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 143, 107619.	3.6	22
45	In Situ Electrosynthesis of Peroxydicarbonate Anion in Ionic Liquid Media Using Carbon Dioxide/Superoxide System. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25928-25939.	8.0	12
46	Enhancing the Anti-biofouling Properties of Polyethersulfone Membrane Using Chitosan-Powder Activated Carbon Composite. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2156-2166.	5.0	6
47	Low-cost, biodegradable and highly effective adsorbents for batch and column fixed bed adsorption processes of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103409.	6.7	56
48	Starch as novel water soluble biopolymer in removal mixtures heavy metal ions via polymer enhanced ultrafiltration. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	5
49	Raw landfill leachate treatment using an electrocoagulation process with a novel rotating electrode reactor. <i>Water Science and Technology</i> , 2019, 80, 458-465.	2.5	21
50	Temperature-programmed reduction of silver(I) oxide using a titania-supported silver catalyst under a H ₂ atmosphere. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 1443-1455.	1.4	7
51	Selective Electrochemical Conversion of Glycerol to Glycolic Acid and Lactic Acid on a Mixed Carbon-Black Activated Carbon Electrode in a Single Compartment Electrochemical Cell. <i>Frontiers in Chemistry</i> , 2019, 7, 110.	3.6	15
52	Esterification of Glycerol With Oleic Acid Over Hydrophobic Zirconia-Silica Acid Catalyst and Commercial Acid Catalyst: Optimization and Influence of Catalyst Acidity. <i>Frontiers in Chemistry</i> , 2019, 7, 205.	3.6	30
53	Atmospheric hydrodeoxygenation of phenol as pyrolytic oil model compound for hydrocarbon production using Ag/TiO ₂ catalyst. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2293.	1.5	12
54	Solubility of CO ₂ in aqueous 2-amino-1, 3-propanediol (Serinol) at elevated pressures. <i>Journal of Molecular Liquids</i> , 2019, 277, 207-216.	4.9	2

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55	Synergistic interaction of metalâ€“acid sites for phenol hydrodeoxygenation over bifunctional Ag/TiO ₂ nanocatalyst. Chinese Journal of Chemical Engineering, 2019, 27, 349-361.	3.5	22
56	Mechanism of bacterial adhesion on ultrafiltration membrane modified by natural antimicrobial polymers (chitosan) and combination with activated carbon (PAC). Reviews in Chemical Engineering, 2019, 35, 421-443.	4.4	26
57	Selection of Tubular Membrane Separation based on the Resistance Performance. , 2019, , .		0
58	Advanced process control for ultrafiltration membrane water treatment system. Journal of Cleaner Production, 2018, 179, 63-80.	9.3	42
59	Electrochemical reduction of bicarbonate on carbon nanotube-supported silver oxide: An electrochemical impedance spectroscopy study. Journal of Environmental Chemical Engineering, 2018, 6, 1033-1043.	6.7	8
60	Atmospheric hydrodeoxygenation of bio-oil oxygenated model compounds: A review. Journal of Analytical and Applied Pyrolysis, 2018, 133, 117-127.	5.5	62
61	Optimization study on preparation of amine functionalized sea mango (cerbera odollam) activated carbon for Carbon Dioxide (CO ₂) adsorption. Combustion Science and Technology, 2018, 190, 1259-1282.	2.3	13
62	Improvement of product selectivity in bicarbonate reduction into formic acid on a tin-based catalyst by integrating nano-diamond particles. Chemical Engineering Research and Design, 2018, 116, 494-505.	5.6	5
63	Solar photovoltaic applications: opportunities and challenges. Reviews in Chemical Engineering, 2018, 34, 503-528.	4.4	16
64	Prediction of CO ₂ /O ₂ absorption selectivity using supported ionic liquid membranes (SILMs) for gasâ€“liquid membrane contactor. Chemical Engineering Communications, 2018, 205, 295-310.	2.6	10
65	Modification of polyethylene glycol with choline chloride and evaluation of the CO ₂ absorption capacity of their aqueous solutions. , 2018, 8, 324-334.		8
66	A review on the adsorption of phenols from wastewater onto diverse groups of adsorbents. Reviews in Chemical Engineering, 2018, 34, 855-873.	4.4	58
67	Solubility of CO ₂ in aqueous solutions of glycerol and monoethanolamine. Journal of Molecular Liquids, 2018, 249, 40-52.	4.9	41
68	Treatment of Textile Wastewater Using a Novel Electrocoagulation Reactor Design. , 2018, , .		2
69	Electrochemical bicarbonate reduction in the presence of Diisopropylamine on silver oxide in alkaline sodium bicarbonate medium. Journal of Environmental Chemical Engineering, 2018, 6, 6335-6343.	6.7	2
70	Development of diamond composite electrode for anodic oxidation of organic pollutants. Journal of Environmental Chemical Engineering, 2018, 6, 3884-3888.	6.7	7
71	Acidity, oxophilicity and hydrogen sticking probability of supported metal catalysts for hydrodeoxygenation process. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012074.	0.6	7
72	Development of a Novel Hydrophobic ZrO ₂ â€“SiO ₂ Based Acid Catalyst for Catalytic Esterification of Glycerol with Oleic Acid. Industrial & Engineering Chemistry Research, 2018, 57, 9386-9399.	3.7	31

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73	Pyrolysis of plastic waste for liquid fuel production as prospective energy resource. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012001.	0.6	83
74	Delayed volatiles release phenomenon at higher temperature in TGA via sample encapsulation technique. Fuel, 2018, 234, 422-429.	6.4	10
75	Effect of carbon source on acclimatization of nitrifying bacteria to achieve high-rate partial nitrification of wastewater with high ammonium concentration. Applied Water Science, 2017, 7, 165-173.	5.6	13
76	The application of iron mesh double layer as anode for the electrochemical treatment of Reactive Black 5 dye. Journal of Environmental Sciences, 2017, 54, 184-195.	6.1	34
77	Removal of lead by solar-photovoltaic electrocoagulation using novel perforated zinc electrode. Journal of Cleaner Production, 2017, 147, 206-216.	9.3	63
78	Effect of Adsorption and Passivation Phenomena on the Electrochemical Oxidation of Phenol and 2-Chlorophenol at Carbon Black Diamond Composite Electrode. Industrial & Engineering Chemistry Research, 2017, 56, 1652-1660.	3.7	21
79	A review of ionic liquids as catalysts for transesterification reactions of biodiesel and glycerol carbonate production. Catalysis Reviews - Science and Engineering, 2017, 59, 44-93.	12.9	64
80	A review on reaction mechanisms of metal-catalyzed deoxygenation process in bio-oil model compounds. Applied Catalysis A: General, 2017, 541, 87-106.	4.3	115
81	Optimization of transesterification of palm-based methyl palmitate and triethanolamine towards maximum di-esteramine content. Biocatalysis and Agricultural Biotechnology, 2017, 10, 352-359.	3.1	4
82	Carbon dioxide adsorption on nitrogen-enriched gel beads from calcined eggshell/sodium alginate natural composite. Chemical Engineering Research and Design, 2017, 109, 387-399.	5.6	23
83	A review of electrocoagulation technology for the treatment of textile wastewater. Reviews in Chemical Engineering, 2017, 33, .	4.4	117
84	Microstructures, interactions and dynamics properties studies of aqueous guanidinium triflate ionic liquid from molecular dynamics simulations. Journal of Molecular Liquids, 2017, 227, 184-193.	4.9	5
85	Optimisation of Reactive Black 5 dye removal by electrocoagulation process using response surface methodology. Water Science and Technology, 2017, 75, 952-962.	2.5	27
86	Recent trends in removal and recovery of heavy metals from wastewater by electrochemical technologies. Reviews in Chemical Engineering, 2017, 33, .	4.4	59
87	Electrochemical Properties and Electrode Reversibility Studies of Palm Shell Activated Carbon for Heavy Metal Removal. Electrochimica Acta, 2017, 249, 96-103.	5.2	8
88	A review on reactivity and stability of heterogeneous metal catalysts for deoxygenation of bio-oil model compounds. Journal of Industrial and Engineering Chemistry, 2017, 56, 1-34.	5.8	132
89	Energy recovery from pyrolysis of plastic waste: Study on non-recycled plastics (NRP) data as the real measure of plastic waste. Energy Conversion and Management, 2017, 148, 925-934.	9.2	162
90	Effect of varying the amount of binder on the electrochemical characteristics of palm shell activated carbon. IOP Conference Series: Materials Science and Engineering, 2017, 210, 012011.	0.6	3

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91	Polymeric ionic liquids (PILs) for CO ₂ capture. Reviews in Chemical Engineering, 2017, 33, 183-200.	4.4	24
92	A practical hybrid modelling approach for the prediction of potential fouling parameters in ultrafiltration membrane water treatment plant. Journal of Industrial and Engineering Chemistry, 2017, 45, 145-155.	5.8	52
93	A low sludge generated anode by hybrid solar electrocoagulation for the removal of lead. IOP Conference Series: Materials Science and Engineering, 2017, 210, 012013.	0.6	0
94	Selective Electroreduction of Glycerol to 1,2-Propanediol on a Mixed Carbon-Black Activated Carbon Electrode and a Mixed Carbon Black-Diamond Electrode. BioResources, 2017, 13, .	1.0	1
95	Synthesis, characterization, and performance evaluation of multilayered photoanodes by introducing mesoporous carbon and TiO ₂ for humic acid adsorption. International Journal of Nanomedicine, 2016, Volume 11, 3969-3978.	6.7	9
96	Correlation and measurement of density and viscosity of aqueous mixtures of glycerol and N-methyldiethanolamine, monoethanolamine, piperazine and ionic liquid. Journal of Molecular Liquids, 2016, 221, 1155-1161.	4.9	19
97	Production of glycerol carbonate from glycerol with aid of ionic liquid as catalyst. Chemical Engineering Journal, 2016, 297, 128-138.	12.7	72
98	Preparation of activated carbon using sea mango (<i>Cerbera odollam</i>) with microwave-assisted technique for the removal of methyl orange from textile wastewater. Desalination and Water Treatment, 2016, 57, 29143-29152.	1.0	12
99	A review of the enzymatic hydroesterification process for biodiesel production. Renewable and Sustainable Energy Reviews, 2016, 61, 245-257.	16.4	108
100	Evaluation of 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide as Alkanolamine Sulfolane-Based System as Solvent for Absorption of Carbon Dioxide. Industrial & Engineering Chemistry Research, 2016, 55, 7992-8001.	3.7	26
101	Production and applications of electric-arc-furnace slag as solid waste in environmental technologies: a review. Environmental Technology Reviews, 2016, 5, 1-11.	4.3	29
102	Enhanced microwave catalytic-esterification of industrial grade glycerol over Brønsted-based methane sulfonic acid in production of biolubricant. Chemical Engineering Research and Design, 2016, 104, 323-333.	5.6	15
103	Simulation of Aqueous Blend of Monoethanolamine and Glycerol for Carbon Dioxide Capture from Flue Gas. Energy & Fuels, 2016, 30, 9540-9553.	5.1	12
104	An overview of biological processes and their potential for CO ₂ capture. Journal of Environmental Management, 2016, 183, 41-58.	7.8	85
105	Absorption of CO ₂ into aqueous mixtures of glycerol and monoethanolamine. Journal of Natural Gas Science and Engineering, 2016, 35, 605-613.	4.4	50
106	Experimental densities and viscosities of binary mixture of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide or glycerol with sulfolane and their molecular interaction by COSMO-RS. Thermochimica Acta, 2016, 639, 130-147.	2.7	17
107	Key issues of ultrafiltration membrane water treatment plant scale-up from laboratory and pilot plant results. Water Science and Technology: Water Supply, 2016, 16, 438-444.	2.1	4
108	Conversion of crude and pure glycerol into derivatives: A feasibility evaluation. Renewable and Sustainable Energy Reviews, 2016, 63, 533-555.	16.4	144

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109	Catalytic role of solid acid catalysts in glycerol acetylation for the production of bio-additives: a review. RSC Advances, 2016, 6, 68885-68905.	3.6	84
110	Reactivity of carbon black diamond electrode during the electro-oxidation of Remazol Brilliant Blue R. RSC Advances, 2016, 6, 3690-3699.	3.6	6
111	Electrocoagulation by solar energy feed for textile wastewater treatment including mechanism and hydrogen production using a novel reactor design with a rotating anode. RSC Advances, 2016, 6, 10192-10204.	3.6	28
112	Sulfonated Beet Pulp as Solid Catalyst in One-Step Esterification of Industrial Palm Fatty Acid Distillate. JAOCS, Journal of the American Oil Chemists' Society, 2016, 93, 319-327.	1.9	12
113	A review on pyrolysis of plastic wastes. Energy Conversion and Management, 2016, 115, 308-326.	9.2	1,296
114	Production of Palm-Based Esteramine Through Heterogeneous Catalysis. Journal of Surfactants and Detergents, 2016, 19, 11-18.	2.1	7
115	Evaluation of ultrafiltration and conventional water treatment systems for sustainable development: an industrial scale case study. Journal of Cleaner Production, 2016, 112, 3152-3163.	9.3	54
116	Microwave-assisted transesterification of industrial grade crude glycerol for the production of glycerol carbonate. Chemical Engineering Journal, 2016, 284, 469-477.	12.7	56
117	Palm Shell-based Activated Carbon for Removing Reactive Black 5 Dye: Equilibrium and Kinetics Studies. BioResources, 2015, 11, .	1.0	8
118	Physicochemical characterization and thermal behavior of biodiesel and biodiesel-diesel blends derived from crude Moringa peregrina seed oil. Energy Conversion and Management, 2015, 92, 535-542.	9.2	56
119	A review of CO ₂ capture by absorption in ionic liquid-based solvents. Reviews in Chemical Engineering, 2015, 31, .	4.4	109
120	Density and viscosity of aqueous mixtures of N-methyldiethanolamines (MDEA), piperazine (PZ) and ionic liquids. Journal of Molecular Liquids, 2015, 209, 596-602.	4.9	42
121	p-Benzoquinone Anodic Degradation by Carbon Black Diamond Composite Electrodes. Electrochimica Acta, 2015, 169, 46-51.	5.2	11
122	A review of different solvents, mass transfer, and hydrodynamics for postcombustion CO ₂ capture. Reviews in Chemical Engineering, 2015, 31, .	4.4	43
123	Anodic Degradation of 2-Chlorophenol by Carbon Black Diamond and Activated Carbon Composite Electrodes. Electrochimica Acta, 2015, 180, 22-28.	5.2	20
124	Catalytic esterification of bioglycerol to value-added products. Reviews in Chemical Engineering, 2015, 31, .	4.4	29
125	On-line CO, CO ₂ emissions evaluation and (benzene, toluene, xylene) determination from experimental burn of tropical biomass. Journal of Environmental Sciences, 2015, 33, 239-244.	6.1	8
126	Fabrication modeling of industrial CO ₂ ionic liquids absorber by artificial neural networks. Journal of Industrial and Engineering Chemistry, 2015, 25, 168-175.	5.8	18

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127	Preparation and characterization of carbon black diamond composite electrodes for anodic degradation of phenol. <i>Electrochimica Acta</i> , 2015, 153, 379-384.	5.2	19
128	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.	5.8	21
129	Practical performance analysis of an industrial-scale ultrafiltration membrane water treatment plant. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 46, 132-139.	5.3	32
130	Removal of heavy metal ions from mixed solutions via polymer-enhanced ultrafiltration using starch as a water-soluble biopolymer. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 359-367.	2.3	18
131	A review: Conversion of bioglycerol into 1,3-propanediol via biological and chemical method. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 963-972.	16.4	155
132	Progress, prospect and challenges in glycerol purification process: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1164-1173.	16.4	201
133	Low pressure solubilities of CO ₂ in guanidinium trifluoromethanesulfonate-MDEA systems. <i>Fluid Phase Equilibria</i> , 2015, 385, 79-91.	2.5	23
134	Impact of in situ physical and chemical cleaning on PVDF membrane properties and performances. <i>Chemical Engineering Science</i> , 2015, 122, 426-435.	3.8	103
135	Removal of zinc and lead ions by polymer-enhanced ultrafiltration using unmodified starch as novel binding polymer. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1825-1834.	3.5	20
136	A New Electrochemical Sensor Based on Task-Specific Ionic Liquids-Modified Palm Shell Activated Carbon for the Determination of Mercury in Water Samples. <i>Sensors</i> , 2014, 14, 13102-13113.	3.8	19
137	Unmodified starch as water-soluble binding polymer for chromium ions removal via polymer enhanced ultrafiltration system. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 61.	3.0	13
138	Cadmium (II)-selective electrode based on palm shell activated carbon modified with task-specific ionic liquid: kinetics and analytical applications. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 1115-1126.	3.5	11
139	Kinetic study of lipase catalyzed transesterification of jatropha oil in circulated batch packed bed reactor. <i>Chemical Engineering Journal</i> , 2014, 237, 123-130.	12.7	30
140	Effects of operational parameters on the treatment of nitrate-rich wastewater by autohydrogenotrophic denitrifying bacteria. <i>Water and Environment Journal</i> , 2014, 28, 556-565.	2.2	10
141	Prospective applications of renewable energy based electrochemical systems in wastewater treatment: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 36-46.	16.4	75
142	A review on the performance of glycerol carbonate production via catalytic transesterification: Effects of influencing parameters. <i>Energy Conversion and Management</i> , 2014, 88, 484-497.	9.2	151
143	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.	6.4	21
144	Density, Surface Tension, and Viscosity of Ionic Liquids (1-Ethyl-3-methylimidazolium diethylphosphate) <i>Chemical & Engineering Data</i> , 2014, 59, 1737-1746.	1.9	35

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145	An evaluation of Moringa peregrina seeds as a source for bio-fuel. Industrial Crops and Products, 2014, 61, 49-61.	5.2	59
146	Vapor pressure of aqueous methyldiethanolamine mixed with ionic liquids. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 380-386.	5.3	16
147	Physical properties of aqueous mixtures of N-methyldiethanolamine (MDEA) and ionic liquids. Journal of Industrial and Engineering Chemistry, 2014, 20, 3349-3355.	5.8	34
148	Palm shell activated carbon impregnated with task-specific ionic-liquids as a novel adsorbent for the removal of mercury from contaminated water. Chemical Engineering Journal, 2013, 225, 306-314.	12.7	108
149	Glycerol production and its applications as a raw material: A review. Renewable and Sustainable Energy Reviews, 2013, 27, 118-127.	16.4	511
150	Reactive extraction of solid coconut waste to produce biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 233-238.	5.3	44
151	Effects of Alkaline Environments at Mild Conditions on the Stability of PVDF Membrane: An Experimental Study. Industrial & Engineering Chemistry Research, 2013, 52, 15874-15882.	3.7	105
152	Improved yield of solvent free enzymatic methanolysis of palm and jatropha oils blended with castor oil. Applied Energy, 2013, 104, 905-909.	10.1	31
153	Blended aviation biofuel from esterified Jatropha curcas and waste vegetable oils. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 911-916.	5.3	42
154	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids. Journal of Chemical & Engineering Data, 2013, 58, 240-247.	1.9	58
155	The effects of catalysts in biodiesel production: A review. Journal of Industrial and Engineering Chemistry, 2013, 19, 14-26.	5.8	436
156	Impregnation of palm shell-based activated carbon with sterically hindered amines for CO ₂ adsorption. Chemical Engineering Journal, 2013, 219, 558-564.	12.7	86
157	The application of nano-crystalline PbO ₂ as an anode for the simultaneous bio-electrochemical denitrification and organic matter removal in an up-flow undivided reactor. Electrochimica Acta, 2013, 94, 327-335.	5.2	35
158	Castor oil as a more suitable feedstock for enzymatic production of methyl esters. Fuel Processing Technology, 2013, 112, 129-132.	7.2	32
159	Optimization and modeling of extraction of solid coconut waste oil. Journal of Food Engineering, 2013, 114, 228-234.	5.2	81
160	A review on the effect of bio-electrodes on denitrification and organic matter removal processes in bio-electrochemical systems. Journal of Industrial and Engineering Chemistry, 2013, 19, 1-13.	5.8	90
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