Mohamed Kheireddine Aroua

List of Publications by Year
in descending order

252	16,715	18436 62	17546 121
papers	citations	h-index	g-index

254	254	254	16283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on pyrolysis of plastic wastes. Energy Conversion and Management, 2016, 115, 308-326.	4.4	1,296
2	Removal of Hexavalent Chromium-Contaminated Water and Wastewater: A Review. Water, Air, and Soil Pollution, 2009, 200, 59-77.	1.1	733
3	Activity of solid catalysts for biodiesel production: A review. Fuel Processing Technology, 2009, 90, 770-777.	3.7	679
4	Review of modifications of activated carbon for enhancing contaminant uptakes from aqueous solutions. Separation and Purification Technology, 2007, 52, 403-415.	3.9	560
5	Glycerol production and its applications as a raw material: A review. Renewable and Sustainable Energy Reviews, 2013, 27, 118-127.	8.2	511
6	High quality biodiesel and its diesel engine application: A review. Renewable and Sustainable Energy Reviews, 2010, 14, 1999-2008.	8.2	509
7	Bio-electrochemical removal of nitrate from water and wastewaterâ€"A review. Bioresource Technology, 2008, 99, 3965-3974.	4.8	471
8	The effects of catalysts in biodiesel production: A review. Journal of Industrial and Engineering Chemistry, 2013, 19, 14-26.	2.9	436
9	Biodiesel separation and purification: A review. Renewable Energy, 2011, 36, 437-443.	4.3	398
10	Removal of total ammonia nitrogen (TAN), nitrate and total organic carbon (TOC) from aquaculture wastewater using electrochemical technology: A review. Desalination, 2012, 285, 1-13.	4.0	393
11	Preparation and characterization of activated carbon from palm shell by chemical activation with K2CO3. Bioresource Technology, 2007, 98, 145-149.	4.8	378
12	Removal of chromium ions from aqueous solutions by polymer-enhanced ultrafiltration. Journal of Hazardous Materials, 2007, 147, 752-758.	6.5	267
13	Production of biodiesel using high free fatty acid feedstocks. Renewable and Sustainable Energy Reviews, 2012, 16, 3275-3285.	8.2	232
14	The effects of water on biodiesel production and refining technologies: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3456-3470.	8.2	229
15	Biodiesel production using alumina-supported calcium oxide: An optimization study. Fuel Processing Technology, 2010, 91, 243-248.	3.7	205
16	Progress, prospect and challenges in glycerol purification process: A review. Renewable and Sustainable Energy Reviews, 2015, 42, 1164-1173.	8.2	201
17	Real-time determination of kinetics of adsorption of lead(II) onto palm shell-based activated carbon using ion selective electrode. Bioresource Technology, 2008, 99, 5786-5792.	4.8	197
18	Removal of lead from aqueous solutions on palm shell activated carbon. Bioresource Technology, 2006, 97, 2350-2355.	4.8	185

#	Article	IF	Citations
19	Refining technologies for the purification of crude biodiesel. Applied Energy, 2011, 88, 4239-4251.	5.1	177
20	Hexavalent chromium adsorption on impregnated palm shell activated carbon with polyethyleneimine. Bioresource Technology, 2010, 101, 5098-5103.	4.8	171
21	Optimization of the activity of CaO/Al2O3 catalyst for biodiesel production using response surface methodology. Applied Catalysis A: General, 2009, 366, 154-159.	2.2	166
22	A packed bed membrane reactor for production of biodiesel using activated carbon supported catalyst. Bioresource Technology, 2011, 102, 1095-1102.	4.8	165
23	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.	4.4	162
24	Potassium hydroxide catalyst supported on palm shell activated carbon for transesterification of palm oil. Fuel Processing Technology, 2010, 91, 1378-1385.	3.7	160
25	A review: Conversion of bioglycerol into 1,3-propanediol via biological and chemical method. Renewable and Sustainable Energy Reviews, 2015, 42, 963-972.	8.2	155
26	Modeling of CO2 solubility and carbamate concentration in DEA, MDEA and their mixtures using the Deshmukhâ€“Mather model. Fluid Phase Equilibria, 2005, 231, 150-162.	1.4	153
27	A review on the performance of glycerol carbonate production via catalytic transesterification: Effects of influencing parameters. Energy Conversion and Management, 2014, 88, 484-497.	4.4	151
28	Conversion of crude and pure glycerol into derivatives: A feasibility evaluation. Renewable and Sustainable Energy Reviews, 2016, 63, 533-555.	8.2	144
29	Textural characteristics, surface chemistry and activation of bleaching earth: A review. Chemical Engineering Journal, 2011, 170, 90-106.	6.6	137
30	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.	2.9	132
31	Response surface optimization of conditions for clarification of carambola fruit juice using a commercial enzyme. Journal of Food Engineering, 2007, 81, 65-71.	2.7	125
32	Analysis of Equilibrium Data of CO2 in Aqueous Solutions of Diethanolamine (DEA), Methyldiethanolamine (MDEA) and Their Mixtures Using the Modified Kent Eisenberg Model. Chemical Engineering Research and Design, 1998, 76, 961-968.	2.7	122
33	A review of electrocoagulation technology for the treatment of textile wastewater. Reviews in Chemical Engineering, 2017, 33, .	2.3	117
34	A review on reaction mechanisms of metal-catalyzed deoxygenation process in bio-oil model compounds. Applied Catalysis A: General, 2017, 541, 87-106.	2.2	115
35	Development of nitrate elimination by autohydrogenotrophic bacteria in bio-electrochemical reactors â€“ A review. Biochemical Engineering Journal, 2012, 67, 251-264.	1.8	110
36	Membrane biodiesel production and refining technology: A critical review. Renewable and Sustainable Energy Reviews, 2011, 15, 5051-5062.	8.2	109

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37	A review of CO2 capture by absorption in ionic liquid-based solvents. Reviews in Chemical Engineering, 2015, 31, .	2.3	109
38	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.	6.6	108
39	A review of the enzymatic hydroesterification process for biodiesel production. Renewable and Sustainable Energy Reviews, 2016, 61, 245-257.	8.2	108
40	Effects of Alkaline Environments at Mild Conditions on the Stability of PVDF Membrane: An Experimental Study. Industrial & Engineering Chemistry Research, 2013, 52, 15874-15882.	1.8	105
41	Impact of in situ physical and chemical cleaning on PVDF membrane properties and performances. Chemical Engineering Science, 2015, 122, 426-435.	1.9	103
42	Recent trends in the development of adsorption technologies for carbon dioxide capture: A brief literature and patent reviews (2014â€“2018). Journal of Cleaner Production, 2020, 253, 119707.	4.6	97
43	Absorption of carbon dioxide in the aqueous mixtures of methyldiethanolamine with three types of imidazolium-based ionic liquids. Fluid Phase Equilibria, 2011, 309, 76-82.	1.4	92
44	Adsorption capacities of carbon dioxide, oxygen, nitrogen and methane on carbon molecular basket derived from polyethyleneimine impregnation on microporous palm shell activated carbon. Separation and Purification Technology, 2008, 62, 609-613.	3.9	91
45	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.	2.9	90
46	A review on activated carbon adsorption for volatile organic compounds (VOCs). Reviews in Chemical Engineering, 2019, 35, 649-668.	2.3	90
47	Impregnation of palm shell-based activated carbon with sterically hindered amines for CO2 adsorption. Chemical Engineering Journal, 2013, 219, 558-564.	6.6	86
48	An overview of biological processes and their potential for CO 2 capture. Journal of Environmental Management, 2016, 183, 41-58.	3.8	85
49	Catalytic role of solid acid catalysts in glycerol acetylation for the production of bio-additives: a review. RSC Advances, 2016, 6, 68885-68905.	1.7	84
50	Pyrolysis of plastic waste for liquid fuel production as prospective energy resource. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012001.	0.3	83
51	Study on palm shell activated carbon adsorption capacity to remove copper ions from aqueous solutions. Desalination, 2010, 262, 94-98.	4.0	82
52	Optimization and modeling of extraction of solid coconut waste oil. Journal of Food Engineering, 2013, 114, 228-234.	2.7	81
53	Effect of Piperazine on CO2Loading in Aqueous Solutions of MDEA at Low Pressure. International Journal of Thermophysics, 2004, 25, 1863-1870.	1.0	78
54	Study on the improvement of the capacity of amine-impregnated commercial activated carbon beds for CO2 adsorbing. Chemical Engineering Journal, 2012, 183, 15-20.	6.6	78

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55	Effect of carbon dioxide and bicarbonate as inorganic carbon sources on growth and adaptation of autohydrogenotrophic denitrifying bacteria. Journal of Hazardous Materials, 2009, 162, 1507-1513.	6.5	76
56	Prospective applications of renewable energy based electrochemical systems in wastewater treatment: A review. Renewable and Sustainable Energy Reviews, 2014, 38, 36-46.	8.2	75
57	Production of glycerol carbonate from glycerol with aid of ionic liquid as catalyst. Chemical Engineering Journal, 2016, 297, 128-138.	6.6	72
58	Experimental Investigation on the Solubility and Initial Rate of Absorption of CO₂ in Aqueous Mixtures of Methyldiethanolamine with the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate. Journal of Chemical & Engineering Data, 2010, 55, 5733-5738.	1.0	70
59	Recovery of medium-chain-length polyhydroxyalkanoates (PHAs) through enzymatic digestion treatments and ultrafiltration. Biochemical Engineering Journal, 2006, 30, 260-268.	1.8	69
60	Density of Palm Oil-Based Methyl Ester. Journal of Chemical & Engineering Data, 2008, 53, 877-880.	1.0	69
61	Solubility of CO2 in Aqueous Piperazine and its Modeling using the Kent-Eisenberg Approach. Chemical Engineering and Technology, 2004, 27, 65-70.	0.9	67
62	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.	5.7	64
63	Removal of lead by solar-photovoltaic electrocoagulation using novel perforated zinc electrode. Journal of Cleaner Production, 2017, 147, 206-216.	4.6	63
64	Atmospheric hydrodeoxygenation of bio-oil oxygenated model compounds: A review. Journal of Analytical and Applied Pyrolysis, 2018, 133, 117-127.	2.6	62
65	Solubilities of CO2 in aqueous N-methyldiethanolamine and guanidinium trifluoromethanesulfonate ionic liquid systems at elevated pressures. Fluid Phase Equilibria, 2011, 300, 89-94.	1.4	61
66	An evaluation of Moringa peregrina seeds as a source for bio-fuel. Industrial Crops and Products, 2014, 61, 49-61.	2.5	59
67	Recent trends in removal and recovery of heavy metals from wastewater by electrochemical technologies. Reviews in Chemical Engineering, 2017, 33, .	2.3	59
68	Density and Viscosity of Aqueous Mixtures of N-Methyldiethanolamines (MDEA) and Ionic Liquids. Journal of Chemical & Engineering Data, 2013, 58, 240-247.	1.0	58
69	A review on the adsorption of phenols from wastewater onto diverse groups of adsorbents. Reviews in Chemical Engineering, 2018, 34, 855-873.	2.3	58
70	A review of recent developments on kinetics parameters for glycerol electrochemical conversion â€“ A by-product of biodiesel. Science of the Total Environment, 2020, 705, 135137.	3.9	57
71	Production of carbon molecular sieves from palm shell based activated carbon by pore sizes modification with benzene for methane selective separation. Fuel Processing Technology, 2007, 88, 599-605.	3.7	56
72	Nitrate remediation in a novel upflow bio-electrochemical reactor (UBER) using palm shell activated carbon as cathode material. Electrochimica Acta, 2009, 54, 4164-4171.	2.6	56

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73	A kinetic study of autohydrogenotrophic denitrification at the optimum pH and sodium bicarbonate dose. Bioresource Technology, 2010, 101, 2236-2242.	4.8	56
74	Physicochemical characterization and thermal behavior of biodiesel and biodieselâ€“diesel blends derived from crude Moringa peregrina seed oil. Energy Conversion and Management, 2015, 92, 535-542.	4.4	56
75	Microwave-assisted transesterification of industrial grade crude glycerol for the production of glycerol carbonate. Chemical Engineering Journal, 2016, 284, 469-477.	6.6	56
76	Low-cost, biodegradable and highly effective adsorbents for batch and column fixed bed adsorption processes of methylene blue. Journal of Environmental Chemical Engineering, 2019, 7, 103409.	3.3	56
77	Evaluation of ultrafiltration and conventional water treatment systems for sustainable development: an industrial scale case study. Journal of Cleaner Production, 2016, 112, 3152-3163.	4.6	54
78	Kinetics of Carbon Dioxide absorption into aqueous MDEA+[bmim][BF4] solutions from 303 to 333K. Chemical Engineering Journal, 2012, 200-202, 317-328.	6.6	53
79	High quality biodiesel obtained through membrane technology. Journal of Membrane Science, 2012, 421-422, 154-164.	4.1	53
80	Current State and Perspectives on Transesterification of Triglycerides for Biodiesel Production. Catalysts, 2021, 11, 1121.	1.6	53
81	Density, viscosity, physical solubility and diffusivity of CO2 in aqueous MDEA+[bmim][BF4] solutions from 303 to 333K. Chemical Engineering Journal, 2011, 172, 763-770.	6.6	52
82	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.	2.9	52
83	Electrodeposition of copper and lead on palm shell activated carbon in a flow-through electrolytic cell. Desalination, 2006, 194, 192-201.	4.0	50
84	Absorption of CO 2 into aqueous mixtures of glycerol and monoethanolamine. Journal of Natural Gas Science and Engineering, 2016, 35, 605-613.	2.1	50
85	Fixed-bed adsorption of metal ions from aqueous solution on polyethyleneimine-impregnated palm shell activated carbon. Chemical Engineering Journal, 2009, 148, 8-14.	6.6	48
86	Viscosities and Densities of Binary and Ternary Blends of Palm Oil + Palm Biodiesel + Diesel Fuel at Different Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 504-507.	1.0	47
87	Chemical characterization of mediumâ€chainâ€length polyhydroxyalkanoates (PHAs) recovered by enzymatic treatment and ultrafiltration. Journal of Chemical Technology and Biotechnology, 2007, 82, 847-855.	1.6	45
88	Adsorption kinetics of various gases in carbon molecular sieves (CMS) produced from palm shell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 312, 131-135.	2.3	45
89	Reactive extraction of solid coconut waste to produce biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 233-238.	2.7	44
90	Impregnation of palm shell activated carbon with polyethyleneimine and its effects on Cd2+ adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 307, 128-136.	2.3	43

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91	A review of different solvents, mass transfer, and hydrodynamics for postcombustion CO2 capture. Reviews in Chemical Engineering, 2015, 31, .	2.3	43
92	Continuous adsorption of lead ions in a column packed with palm shell activated carbon. Journal of Hazardous Materials, 2008, 155, 109-113.	6.5	42
93	Improvement of autohydrogenotrophic nitrite reduction rate through optimization of pH and sodium bicarbonate dose in batch experiments. Journal of Bioscience and Bioengineering, 2009, 107, 275-280.	1.1	42
94	Blended aviation biofuel from esterified Jatropha curcas and waste vegetable oils. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 911-916.	2.7	42
95	Density and viscosity of aqueous mixtures of N-methyldiethanolamines (MDEA), piperazine (PZ) and ionic liquids. Journal of Molecular Liquids, 2015, 209, 596-602.	2.3	42
96	Advanced process control for ultrafiltration membrane water treatment system. Journal of Cleaner Production, 2018, 179, 63-80.	4.6	42
97	Absorption of CO2 in aqueous mixtures of N-methyldiethanolamine and guanidinium tris(pentafluoroethyl)trifluorophosphate ionic liquid at high-pressure. Fluid Phase Equilibria, 2012, 322-323, 120-125.	1.4	41
98	Solubility of CO 2 in aqueous solutions of glycerol and monoethanolamine. Journal of Molecular Liquids, 2018, 249, 40-52.	2.3	41
99	Breakthrough analysis of continuous fixed-bed adsorption of sevoflurane using activated carbons. Chemosphere, 2020, 239, 124839.	4.2	41
100	The application of polymer containing materials in CO2 capturing via absorption and adsorption methods. Journal of CO2 Utilization, 2021, 48, 101526.	3.3	41
101	Density of Jatropha curcas Seed Oil and its Methyl Esters: Measurement and Estimations. International Journal of Thermophysics, 2009, 30, 529-541.	1.0	40
102	Methanol recovery during transesterification of palm oil in a TiO2/Al2O3 membrane reactor: Experimental study and neural network modeling. Separation and Purification Technology, 2010, 76, 58-63.	3.9	36
103	Adsorption of CO2 on palm shell based activated carbon modified by deep eutectic solvent: Breakthrough adsorption study. Journal of Environmental Chemical Engineering, 2021, 9, 105333.	3.3	36
104	The application of nano-crystalline PbO2 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.	2.6	35
105	Density, Surface Tension, and Viscosity of Ionic Liquids (1-Ethyl-3-methylimidazolium diethylphosphate) Tj ETQq1 1 0.784314 rgBT /O Chemical & Engineering Data, 2014, 59, 1737-1746.	1.0	35
106	An experimental investigation on the rate of CO2 absorption into aqueous methyldiethanolamine solutions. Korean Journal of Chemical Engineering, 2007, 24, 16-23.	1.2	34
107	Carbon molecular sieves from palm shell: Effect of the benzene deposition times on gas separation properties. Separation and Purification Technology, 2007, 57, 289-293.	3.9	34
108	Physical properties of aqueous mixtures of N-methyldiethanolamine (MDEA) and ionic liquids. Journal of Industrial and Engineering Chemistry, 2014, 20, 3349-3355.	2.9	34

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109	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.	3.2	34
110	Transforming Plastic Waste into Porous Carbon for Capturing Carbon Dioxide: A Review. Energies, 2021, 14, 8421.	1.6	33
111	Equilibrium Constant for Carbamate Formation from Monoethanolamine and Its Relationship with Temperature. Journal of Chemical & Engineering Data, 1999, 44, 887-891.	1.0	32
112	Castor oil â€" a more suitable feedstock for enzymatic production of methyl esters. Fuel Processing Technology, 2013, 112, 129-132.	3.7	32
113	Practical performance analysis of an industrial-scale ultrafiltration membrane water treatment plant. Journal of the Taiwan Institute of Chemical Engineers, 2015, 46, 132-139.	2.7	32
114	Modelling of carbon dioxide absorption in aqueous solutions of AMP and MDEA and their blends using Aspenplus. Separation and Purification Technology, 2002, 29, 153-162.	3.9	31
115	Improved yield of solvent free enzymatic methanolysis of palm and jatropha oils blended with castor oil. Applied Energy, 2013, 104, 905-909.	5.1	31
116	Development of a Novel Hydrophobic ZrO₂â€“SiO₂ Based Acid Catalyst for Catalytic Esterification of Glycerol with Oleic Acid. Industrial & Engineering Chemistry Research, 2018, 57, 9386-9399.	1.8	31
117	Combustion characteristics of biomass in SouthEast Asia. Biomass and Bioenergy, 2011, 35, 3884-3890.	2.9	30
118	Kinetic study of lipase catalyzed transesterification of jatropha oil in circulated batch packed bed reactor. Chemical Engineering Journal, 2014, 237, 123-130.	6.6	30
119	Esterification of Glycerol With Oleic Acid Over Hydrophobic Zirconia-Silica Acid Catalyst and Commercial Acid Catalyst: Optimization and Influence of Catalyst Acidity. Frontiers in Chemistry, 2019, 7, 205.	1.8	30
120	Sequential nitrification and denitrification in a novel palm shell granular activated carbon twin-chamber upflow bio-electrochemical reactor for treating ammonium-rich wastewater. Bioresource Technology, 2012, 125, 256-266.	4.8	29
121	Catalytic esterification of bioglycerol to value-added products. Reviews in Chemical Engineering, 2015, 31, .	2.3	29
122	Production and applications of electric-arc-furnace slag as solid waste in environmental technologies: a review. Environmental Technology Reviews, 2016, 5, 1-11.	2.1	29
123	Densities of Ethyl Esters Produced from Different Vegetable Oils. Journal of Chemical & Engineering Data, 2008, 53, 2222-2225.	1.0	28
124	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.	1.7	28
125	A review of recent progress on electrocatalysts toward efficient glycerol electrooxidation. Reviews in Chemical Engineering, 2021, 37, 779-811.	2.3	28
126	EQUILIBRIUM OF CO2 IN AQUEOUS DIETHANOLAMINE(DEA) AND AMINO METHYL PROPANOL (AMP) SOLUTIONS. Chemical Engineering Communications, 1995, 140, 157-171.	1.5	27

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127	Optimisation of Reactive Black 5 dye removal by electrocoagulation process using response surface methodology. Water Science and Technology, 2017, 75, 952-962.	1.2	27
128	Temperature Dependency of the Equilibrium Constant for the Formation of Carbamate From Diethanolamine. Journal of Chemical & Engineering Data, 1997, 42, 692-696.	1.0	26
129	Effect of impregnation of activated carbon with chelating polymer on adsorption kinetics of Pb2+. Journal of Hazardous Materials, 2009, 166, 1526-1529.	6.5	26
130	Evaluation of 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imideâ€“Alkanolamine Sulfolane-Based System as Solvent for Absorption of Carbon Dioxide. Industrial & Engineering Chemistry Research, 2016, 55, 7992-8001.	1.8	26
131	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.	2.3	26
132	Equilibrium concentration profiles of species in CO2â€”alkanolamineâ€”water systems. Separation and Purification Technology, 1996, 10, 13-18.	0.3	25
133	Enhanced Adsorption of Metal Ions Onto Polyethyleneimine-Impregnated Palm Shell Activated Carbon: Equilibrium Studies. Water, Air, and Soil Pollution, 2008, 192, 337-348.	1.1	25
134	Polymeric ionic liquids (PILs) for CO₂ capture. Reviews in Chemical Engineering, 2017, 33, 183-200.	2.3	24
135	Equilibrium solubility of carbon dioxide in 2(methylamino)ethanol. Fluid Phase Equilibria, 2011, 303, 162-167.	1.4	23
136	Low pressure solubilities of CO2 in guanidinium trifluoromethanesulfonateâ€“MDEA systems. Fluid Phase Equilibria, 2015, 385, 79-91.	1.4	23
137	Carbon dioxide adsorption on nitrogen-enriched gel beads from calcined eggshell/sodium alginate natural composite. Chemical Engineering Research and Design, 2017, 109, 387-399.	2.7	23
138	Supported ionic liquid membranes (SILMs) as a contactor for selective absorption of CO2/O2 by aqueous monoethanolamine (MEA). Separation and Purification Technology, 2020, 230, 115849.	3.9	23
139	Combined solar electrocoagulation and adsorption processes for Pb(II) removal from aqueous solution. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107619.	1.8	22
140	Synergistic interaction of metalâ€“acid sites for phenol hydrodeoxygenation over bifunctional Ag/TiO2 nanocatalyst. Chinese Journal of Chemical Engineering, 2019, 27, 349-361.	1.7	22
141	Biochar derived from fruit by-products using pyrolysis process for the elimination of Pb(II) ion: An updated review. Chemosphere, 2022, 287, 132250.	4.2	22
142	Polyethyleneimine impregnation on activated carbon: Effects of impregnation amount and molecular number on textural characteristics and metal adsorption capacities. Materials Chemistry and Physics, 2008, 112, 417-422.	2.0	21
143	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
144	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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145	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.	1.8	21
146	Raw landfill leachate treatment using an electrocoagulation process with a novel rotating electrode reactor. Water Science and Technology, 2019, 80, 458-465.	1.2	21
147	Anodic Degradation of 2-Chlorophenol by Carbon Black Diamond and Activated Carbon Composite Electrodes. Electrochimica Acta, 2015, 180, 22-28.	2.6	20
148	Removal of zinc and lead ions by polymer-enhanced ultrafiltration using unmodified starch as novel binding polymer. International Journal of Environmental Science and Technology, 2015, 12, 1825-1834.	1.8	20
149	A New Electrochemical Sensor Based on Task-Specific Ionic Liquids-Modified Palm Shell Activated Carbon for the Determination of Mercury in Water Samples. Sensors, 2014, 14, 13102-13113.	2.1	19
150	Preparation and characterization of carbon black diamond composite electrodes for anodic degradation of phenol. Electrochimica Acta, 2015, 153, 379-384.	2.6	19
151	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.	2.3	19
152	Kinetic of CO2 absorption and carbamate formation in aqueous solutions of diethanolamine. Korean Journal of Chemical Engineering, 2008, 25, 451-460.	1.2	18
153	Fabrication modeling of industrial CO2 ionic liquids absorber by artificial neural networks. Journal of Industrial and Engineering Chemistry, 2015, 25, 168-175.	2.9	18
154	Removal of heavy metal ions from mixed solutions via polymer-enhanced ultrafiltration using starch as a water-soluble biopolymer. Environmental Progress and Sustainable Energy, 2015, 34, 359-367.	1.3	18
155	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.	1.2	17
156	Synthesis of carbon molecular sieves from palm shell by carbon vapor deposition. Journal of Porous Materials, 2007, 14, 393-399.	1.3	16
157	TiO2/Al2O3 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
158	Vapor pressure of aqueous methyldiethanolamine mixed with ionic liquids. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 380-386.	2.7	16
159	Solar photovoltaic applications: opportunities and challenges. Reviews in Chemical Engineering, 2018, 34, 503-528.	2.3	16
160	Editorial: From Glycerol to Value-Added Products. Frontiers in Chemistry, 2020, 8, 69.	1.8	16
161	Enhanced microwave catalytic-esterification of industrial grade glycerol over BrÃ¸nsted-based methane sulfonic acid in production of biolubricant. Chemical Engineering Research and Design, 2016, 104, 323-333.	2.7	15
162	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. Frontiers in Chemistry, 2019, 7, 110.	1.8	15

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163	Enrichment of surface oxygen functionalities on activated carbon for adsorptive removal of sevoflurane. Chemosphere, 2020, 260, 127496.	4.2	15
164	Recovery and reutilisation of copper from metal hydroxide sludges. Clean Technologies and Environmental Policy, 2008, 10, 131-136.	2.1	14
165	Prediction of Palm Oil-Based Methyl Ester Biodiesel Density Using Artificial Neural Networks. Journal of Applied Sciences, 2008, 8, 1938-1943.	0.1	14
166	Unmodified starch as water-soluble binding polymer for chromium ions removal via polymer enhanced ultrafiltration system. Journal of Environmental Health Science & Engineering, 2014, 12, 61.	1.4	13
167	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.	2.8	13
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