

Muhammad Abbas Ahmad Zaini

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.

118
papers

1,582
citations

19
h-index

36
g-index

139
ext. papers

1,971
ext. citations

2.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
118	Optimization of synergistic green emulsion liquid membrane stability for enhancement of silver recovery from aqueous solution. <i>Korean Journal of Chemical Engineering</i> , 2022 , 39, 423-430	2.8	0
117	A Two-Stage Batch System for Phosphate Removal from Wastewater by Iron-Coated Waste Mussel Shell to Assess the Optimum Adsorbent Dosage. <i>Journal of Water Chemistry and Technology</i> , 2022 , 44, 10-20	0.4	0
116	Malachite green adsorption by calcium-rich crab shell char via two-stage adsorber design. <i>Analele Universitii Ovidius Constanța: Seria Chimie</i> , 2022 , 33, 36-40	0.4	
115	Environmental Awareness in Batik Making Process. <i>Sustainability</i> , 2022 , 14, 6094	3.6	0
114	The Alternating Aerobic-Anoxic System for the Treatment of Phosphorus in Waters. <i>Journal of Water Chemistry and Technology</i> , 2021 , 43, 155-163	0.4	2
113	Isotherm and kinetics of methylene blue removal by Musa acuminata peel adsorbents. <i>Acta Chemica Malaysia</i> , 2021 ,	1	1
112	Equilibrium and kinetics of phenol adsorption by crab shell chitosan. <i>Particulate Science and Technology</i> , 2021 , 39, 415-426	2	4
111	Comparative study on the enhancement of thermo-mechanical properties of carbon fiber and glass fiber reinforced epoxy composites. <i>Materials Today: Proceedings</i> , 2021 , 39, 956-958	1.4	19
110	Evaluation of dyes removal by beta-cyclodextrin adsorbent. <i>Materials Today: Proceedings</i> , 2021 , 39, 907-910		6
109	Effects of physical activation on pore textures and heavy metals removal of fiber-based activated carbons. <i>Materials Today: Proceedings</i> , 2021 , 39, 917-921	1.4	8
108	Dielectric and adsorptive properties of potassium hydroxide-treated castor residue carbons. <i>Materials Today: Proceedings</i> , 2021 , 39, 1015-1019	1.4	
107	Assessment of thermal regeneration of spent commercial activated carbon for methylene blue dye removal. <i>Particulate Science and Technology</i> , 2021 , 39, 504-510	2	6
106	Microporous activated carbon prepared from yarn processing sludge via composite chemical activation for excellent adsorptive removal of malachite green. <i>Surfaces and Interfaces</i> , 2021 , 22, 100832	4.1	3
105	Optimization in a Two-Stage Sorption of Malachite Green by Date Palm Residue Carbon 2021 ,		1
104	Sodium hydroxide-activated Casuarina empty fruit: Isotherm, kinetics and thermodynamics of methylene blue and congo red adsorption. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101727	7	4
103	Valorization of Casuarina empty fruit-based activated carbons for dyes removal [Activators, isotherm, kinetics and thermodynamics. <i>Surfaces and Interfaces</i> , 2021 , 25, 101277	4.1	4
102	Adsorptive removal of Bisphenol a from aqueous solution using activated carbon from coffee residue. <i>Materials Today: Proceedings</i> , 2021 , 47, 1307-1312	1.4	6

101	Dyes adsorption properties of KOH-activated resorcinol-formaldehyde carbon gels -kinetic, isotherm and dynamic studies. <i>Toxin Reviews</i> , 2020 , 1-12	2.3	1
100	One-step ZnCl ₂ /FeCl ₃ composites preparation of magnetic activated carbon for effective adsorption of rhodamine B dye. <i>Toxin Reviews</i> , 2020 , 1-18	2.3	10
99	Zinc chloride-activated glycerine pitch distillate for methylene blue removal- Isotherm, kinetics and thermodynamics. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	4
98	The oil-absorbing properties of kapok fibre – a commentary. <i>Journal of Taibah University for Science</i> , 2020 , 14, 507-512	3	10
97	Development of activated carbon pellets using a facile low-cost binder for effective malachite green dye removal. <i>Journal of Cleaner Production</i> , 2020 , 253, 119970	10.3	27
96	Valorization of spent activated carbon in glycerine deodorization unit for methylene blue removal. <i>Carbon Letters</i> , 2020 , 31, 721	2.3	2
95	Decolourisation of malachite green dye by potassium carbonate-treated kernel shell adsorbent. <i>International Journal of Environment and Waste Management</i> , 2020 , 25, 498	0.9	
94	Effects of chemical activating agents on physical properties of activated carbons – a commentary. <i>Water Practice and Technology</i> , 2020 , 15, 863-876	0.9	2
93	Textile sludge-raw dust chemically produced activated carbon: equilibrium and dynamics studies of malachite green adsorption. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	4
92	Twigs-derived activated carbons via HPO/ZnCl composite activation for methylene blue and congo red dyes removal. <i>Scientific Reports</i> , 2020 , 10, 14050	4.9	13
91	Correlations between pore textures of activated carbons and Langmuir constants – case studies on methylene blue and congo red adsorption. <i>Toxin Reviews</i> , 2020 , 1-11	2.3	3
90	Carbon-Based Adsorbents from Used Rubber Slipper for Dye Removal. <i>Materials Science Forum</i> , 2019 , 951, 83-88	0.4	
89	Physicochemical Properties of Oxalic Acid-Modified Chitosan/Neem Leave Composites from Pessu River Crab Shell. <i>International Journal of Chemical Reactor Engineering</i> , 2019 , 17,	1.2	2
88	Evaluation of methylene blue dye and phenol removal onto modified CO ₂ -activated pyrolysis tyre powder. <i>Journal of Cleaner Production</i> , 2019 , 223, 487-498	10.3	21
87	Kinetics and dynamic adsorption of methylene blue by CO ₂ -activated resorcinol formaldehyde carbon gels. <i>Carbon Letters</i> , 2019 , 29, 319-326	2.3	6
86	Adsorption of Malachite Green and Congo Red Dyes from Water: Recent Progress and Future Outlook. <i>Ecological Chemistry and Engineering S</i> , 2019 , 26, 119-132	1.3	18
85	Removal of Malachite Green and Congo Red Dyes from Water by Polyacrylonitrile Carbon Fibre Sorbents. <i>Acta Chemica Malaysia</i> , 2019 , 3, 29-34	1	5
84	Isotherm Studies of Malachite Green Removal by Yarn Processing Sludge-Based Activated Carbon. <i>Chemistry, Didactics, Ecology, Metrology</i> , 2019 , 24, 127-134	0.9	2

83 Eco-adsorbents for Organic Solvents and Grease Removal **2019**, 3347-3377

82 Kinetics and Thermodynamics of Dispersed Oil Sorption by Kapok Fiber. *Ecological Chemistry and Engineering S*, **2019**, 26, 759-772 1.3 3

81 Porous Nanomaterials for Heavy Metal Removal **2019**, 469-494 5

80 Preparation and characterization of activated carbons produced from oil palm empty fruit bunches. *Tanso*, **2019**, 2019, 9-13 0.1 2

79 Isotherm studies of lead(II), manganese(II), and cadmium(II) adsorption by Nigerian bentonite clay in single and multimetal solutions. *Particulate Science and Technology*, **2019**, 37, 403-413 2 12

78 Surface modification of low-cost bentonite adsorbents: A review. *Particulate Science and Technology*, **2019**, 37, 538-549 2 23

77 Silver Nanoparticles in the Water Environment in Malaysia: Inspection, characterization, removal, modeling, and future perspective. *Scientific Reports*, **2018**, 8, 986 4.9 82

76 Effect of operating conditions on catechin extraction from betel nuts using supercritical CO₂-methanol extraction. *Separation Science and Technology*, **2018**, 53, 662-670 2.5 9

75 Physicochemical characteristics of surface modified Dijah-Monkin bentonite. *Particulate Science and Technology*, **2018**, 36, 287-297 2 9

74 Insight into kinetics and thermodynamics properties of multicomponent lead(II), cadmium(II) and manganese(II) adsorption onto Dijah-Monkin bentonite clay. *Particulate Science and Technology*, **2018**, 36, 569-577 2 10

73 Preparation, characterization, and dye removal study of activated carbon prepared from palm kernel shell. *Environmental Science and Pollution Research*, **2018**, 25, 5076-5085 5.1 45

72 Valorization of human hair as methylene blue dye adsorbents. *Green Processing and Synthesis*, **2018**, 7, 344-352 3.9 8

71 Microwave-assisted solvent extraction of castor oil from castor seeds. *Chinese Journal of Chemical Engineering*, **2018**, 26, 2516-2522 3.2 18

70 Surface modification of activated carbon for adsorption of SO₂ and NO_x: A review of existing and emerging technologies. *Renewable and Sustainable Energy Reviews*, **2018**, 94, 1067-1085 16.2 94

69 Dielectric properties in microwave-assisted solvent extraction: Present trends and future outlook. *Asia-Pacific Journal of Chemical Engineering*, **2018**, 13, e2230 1.3 0

68 Kinetic Modeling of Supercritical Fluid Extraction of Betel Nut. *International Journal of Automotive and Mechanical Engineering*, **2018**, 15, 5273-5284 1.4 3

67 Activated carbons by zinc chloride activation for dye removal: A commentary. *Acta Chimica Slovaca*, **2018**, 11, 99-106 0.7 21

66 Adsorption of Methylene Blue on Cardboard-Based Activated Carbons Treated with Zinc Chloride and Potassium Hydroxide. *Journal of Environmental Chemistry*, **2018**, 28, 157-161 0.3 1

65 Eco-Adsorbents for Organic Solvents and Grease Removal **2018**, 1-31

64 Dielectric properties of potassium carbonate-impregnated cempedak peel for microwave-assisted activation. *Asia-Pacific Journal of Chemical Engineering*, **2017**, 12, 173-181 1.3 6

63 Malachite green adsorption by potassium salts-activated carbons derived from textile sludge: Equilibrium, kinetics and thermodynamics studies. *Asia-Pacific Journal of Chemical Engineering*, **2017**, 12, 159-172 1.3 19

62 Adsorption properties of cationic rhodamine B dye onto metals chloride-activated castor bean residue carbons. *Water Science and Technology*, **2017**, 75, 864-880 2.2 12

61 ETHANOL SEPARATION USING SEPABEADS207 ADSORBENT. *Jurnal Teknologi (Sciences and Engineering)*, **2017**, 79, 1.2 1

60 Preliminary evaluation of resorcinol-formaldehyde carbon gels for water pollutants removal. *Acta Chimica Slovaca*, **2017**, 10, 54-60 0.7 4

59 Multi-metals column adsorption of lead(II), cadmium(II) and manganese(II) onto natural bentonite clay. *Water Science and Technology*, **2017**, 76, 2232-2241 2.2 5

58 Isotherm studies of methylene blue adsorption onto waste tyre pyrolysis powder-based activated carbons. *Malaysian Journal of Fundamental and Applied Sciences*, **2017**, 13, 671-675 2.1 2

57 Roles of Impregnation Ratio of K₂CO₃ and NaOH in Chemical Activation of Palm Kernel Shell. *Journal of Applied Science & Process Engineering*, **2017**, 4, 195-204 1 8

56 Optimization of microwave irradiated - coconut shell activated carbon using response surface methodology for adsorption of benzene and toluene. *Desalination and Water Treatment*, **2016**, 57, 7881-7897 3

55 Bio-polishing sludge adsorbents for dye removal. *Polish Journal of Chemical Technology*, **2016**, 18, 15-21 1 1

54 Metal chloride salts in the preparation of activated carbon and their hazardous outlook. *Desalination and Water Treatment*, **2016**, 57, 16078-16085 8

53 Solubility assessment of castor (*Ricinus communis* L) oil in supercritical CO₂ at different temperatures and pressures under dynamic conditions. *Industrial Crops and Products*, **2015**, 76, 34-40 5.9 20

52 A parametric investigation of castor oil (*Ricinus communis* L) extraction using supercritical carbon dioxide via response surface optimization. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 53, 32-39 5.3 14

51 Adsorption of benzene and toluene onto KOH activated coconut shell based carbon treated with NH₃. *International Biodeterioration and Biodegradation*, **2015**, 102, 245-255 4.8 97

50 Preparation and characterization of activated carbon from pineapple waste biomass for dye removal. *International Biodeterioration and Biodegradation*, **2015**, 102, 274-280 4.8 140

49 Characterization and process optimization of castor oil (*Ricinus communis* L.) extracted by the soxhlet method using polar and non-polar solvents. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 47, 99-104 5.3 26

48 On the view of dielectric properties in microwave-assisted activated carbon preparation. *Asia-Pacific Journal of Chemical Engineering*, **2015**, 10, 953-960 1.3 7

47	Carbon Dioxide Capture from Reforming Gases using Acetic Acid-mixed Chemical Absorbents. <i>Bulletin of the Korean Chemical Society</i> , 2015 , 36, 1940-1943	1.2	1
46	Isotherm Studies of Methylene Blue Adsorption onto Potassium Salts-Modified Textile Sludge. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 74,	1.2	1
45	POTASSIUM CARBONATE-TREATED PALM KERNEL SHELL ADSORBENT FOR CONGO RED REMOVAL FROM WATER. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 75,	1.2	1
44	Potassium hydroxide activation of activated carbon: a commentary. <i>Carbon Letters</i> , 2015 , 16, 275-280	2.3	118
43	Use of Supercritical CO ₂ and R134a as Solvent for Extraction of b-Carotene and a-Tocopherols from Crude Palm Oil. <i>Asian Journal of Chemistry</i> , 2014 , 26, 5911-5916	0.4	7
42	Synthesis and Characterization of Bio-Based Porous Carbons by Two Step Physical Activation with CO ₂ . <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 68,	1.2	1
41	Synthesis and Characterization of Green Porous Carbons with Large Surface Area by Two Step Chemical Activation with KOH. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 67,	1.2	3
40	Irradiated Water-activated Waste Tyre Powder for Decolourization of Reactive Orange 16. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 68,	1.2	2
39	Extraction of Virgin Coconut (Cocos nucifera) Oil Using Supercritical Fluid Carbon Dioxide. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 67,	1.2	1
38	Enhanced lead(II) binding properties of heat-treated cattle-manure-compost-activated carbons. <i>Desalination and Water Treatment</i> , 2014 , 52, 6420-6429		7
37	Removal of Heavy Metals onto KOH-activated Ash-rich Sludge Adsorbent. <i>Energy Procedia</i> , 2014 , 61, 2572-2575	2.3	16
36	Characteristics of Potassium Acetate - Activated Coconut Shell Carbon. <i>Advanced Materials Research</i> , 2014 , 1043, 193-197	0.5	1
35	Optimization of Preparation of Microwave Irradiated Bio-Based Materials as Porous Carbons for VOCs Removal Using Response Surface Methodology. <i>Applied Mechanics and Materials</i> , 2014 , 554, 175-179	0.3	2
34	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture Through Dry Reforming. <i>Energy Procedia</i> , 2014 , 61, 2391-2394	2.3	4
33	Palm oil mill effluent sludge ash as adsorbent for methylene blue dye removal. <i>Desalination and Water Treatment</i> , 2014 , 52, 3654-3662		23
32	A comparative study of various oil extraction techniques from plants. <i>Reviews in Chemical Engineering</i> , 2014 , 30,	5	53
31	Kinetic study of catechin extracted from Areca catechu seeds using green extraction method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 743-750	1.3	5
30	Equilibrium and Kinetic Studies of Benzene and Toluene Adsorption onto Microwave Irradiated-Coconut Shell Activated Carbon. <i>Advanced Materials Research</i> , 2014 , 1043, 219-223	0.5	2

29	Dielectric Properties for the Ring Opening Polymerisation of ϵ -Caprolactone. <i>Applied Mechanics and Materials</i> , 2014 , 493, 621-627	0.3	1
28	Comparison on the Characteristics of Bio-Based Porous Carbons by Physical and Novel Chemical Activation. <i>Applied Mechanics and Materials</i> , 2014 , 554, 22-26	0.3	4
27	Removal of 2-methylisoborneol from aqueous solution by cattle manure compost (CMC) derived activated carbons 2014 , 63, 239-247		3
26	A REVIEW OF MIXED REVERSE MICELLE SYSTEM FOR ANTIBIOTIC RECOVERY. <i>Chemical Engineering Communications</i> , 2014 , 201, 1664-1685	2.2	17
25	Zinc Chloride-activated Waste Carbon Powder for Decolourization of Methylene Blue. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 67,	1.2	2
24	Sludge-adsorbents from palm oil mill effluent for methylene blue removal. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 1091-1098	6.8	42
23	Critical issues in microwave-assisted activated carbon preparation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 101, 238-241	6	34
22	Effect of heat treatment on copper removal onto manure-compost-activated carbons. <i>Desalination and Water Treatment</i> , 2013 , 51, 5608-5616		2
21	Extraction of Rubber (<i>Hevea brasiliensis</i>) Seeds Oil Using Supercritical Carbon Dioxide. <i>Journal of Biobased Materials and Bioenergy</i> , 2013 , 7, 213-218	1.4	7
20	Crossflow Microfiltration of Oil in Water Emulsion via Tubular Filters: Evaluation by Mathematical Models on Droplet Deformation and Filtration. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2012 ,	1.2	1
19	Relationship between Helium Degassing of Cattle-Manure-Compost Adsorbents and Copper Ions Removal. <i>International Journal of Organic Chemistry</i> , 2012 , 02, 262-266	0.3	2
18	Adsorption of heavy metals onto activated carbons derived from polyacrylonitrile fiber. <i>Journal of Hazardous Materials</i> , 2010 , 180, 552-60	12.8	137
17	Adsorption of aqueous metal ions on cattle-manure-compost based activated carbons. <i>Journal of Hazardous Materials</i> , 2009 , 170, 1119-24	12.8	88
16	Adsorption of copper(II) ions onto activated carbons treated by ammonia gas. <i>Journal of Environmental Chemistry</i> , 2008 , 18, 533-539	0.3	7
15	Water vapor adsorption onto activated carbons prepared from cattle manure compost (CMC). <i>Applied Surface Science</i> , 2008 , 254, 4868-4874	6.7	21
14	Influence of Acidic Functional Groups of Activated Carbon and Solution pH on Cadmium Ion Adsorption. <i>Journal of Ion Exchange</i> , 2008 , 19, 95-100	0.2	7
13	Effect of out-gassing of ZnCl ₂ -activated cattle manure compost (CMC) on adsorptive removal of Cu (II) and Pb (II) ions. <i>Tanso</i> , 2008 , 2008, 220-226	0.1	5
12	High efficient degradation of organic dyes by polypyrrole-multiwall carbon nanotubes nanocomposites. <i>Polymers for Advanced Technologies</i> ,	3.2	3

11	Existing and emerging technologies for the removal of orthophosphate from wastewater by agricultural waste adsorbents: a review. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
10	Potassium hydroxide-treated palm kernel shell sorbents for the efficient removal of methyl violet dye84, 262-270		13
9	Preparation of textile sludge-derived activated carbon via KI and KOH activation for fast and efficient removal of methylene blue138, 335-345		3
8	Isotherm, kinetics and thermodynamics of methylene blue dye adsorption onto CO2-activated pyrolysis tyre powder143, 323-332		3
7	Coffee residue-based activated carbons for phenol removal. <i>Water Practice and Technology</i> ,	0.9	5
6	Physicochemical modification of chitosan adsorbent: a perspective. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	3
5	Scylla Sp. Shell: a potential green adsorbent for wastewater treatment. <i>Toxin Reviews</i> ,1-10	2.3	1
4	A New solubility model for competing effects of three solvents: Water, ethanol, and supercritical carbon dioxide. <i>Separation Science and Technology</i> ,1-7	2.5	1
3	Bamboo residue as a potential activated carbon for removal of water pollutants: a commentary. <i>International Wood Products Journal</i> ,1-8	0.9	0
2	Adsorption of water pollutants using H3PO4-activated lignocellulosic agricultural waste: a mini review. <i>Toxin Reviews</i> ,1-13	2.3	0
1	Beta-cyclodextrin adsorbents to remove water pollutants— commentary. <i>Frontiers of Chemical Science and Engineering</i> ,1	4.5	2