Muhammad Abbas Ahmad Zaini

List of Publications by Year
in descending order

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138 papers	2,537 citations	257429 24 h-index	233409 45 g-index
139 all docs	139 docs citations	139 times ranked	2778 citing authors

#	Article	IF	Citations
1	Physicochemical modification of chitosan adsorbent: a perspective. Biomass Conversion and Biorefinery, 2023, 13, 5557-5575.	4.6	19
2	Existing and emerging technologies for the removal of orthophosphate from wastewater by agricultural waste adsorbents: a review. Biomass Conversion and Biorefinery, 2023, 13, 12349-12365.	4.6	5
3	Adsorption of water pollutants using H ₃ PO ₄ -activated lignocellulosic agricultural waste: a mini review. Toxin Reviews, 2023, 42, 349-361.	3.4	3
4	Textile sludgeâ€“sawdust chemically produced activated carbon: equilibrium and dynamics studies of malachite green adsorption. Biomass Conversion and Biorefinery, 2022, 12, 2847-2859.	4.6	10
5	Correlations between pore textures of activated carbons and Langmuir constants â€“ case studies on methylene blue and congo red adsorption. Toxin Reviews, 2022, 41, 315-325.	3.4	6
6	Dyes adsorption properties of KOH-activated resorcinol-formaldehyde carbon gels -kinetic, isotherm and dynamic studies. Toxin Reviews, 2022, 41, 186-197.	3.4	7
7	One-step ZnCl₂/FeCl₃ composites preparation of magnetic activated carbon for effective adsorption of rhodamine B dye. Toxin Reviews, 2022, 41, 64-81.	3.4	33
8	Zinc chlorideâ€“activated glycerine pitch distillate for methylene blue removalâ€”isotherm, kinetics and thermodynamics. Biomass Conversion and Biorefinery, 2022, 12, 2715-2726.	4.6	7
9	High efficient degradation of organic dyes by <scp>polypyrroleâ€multiwall</scp> carbon nanotubes nanocomposites. Polymers for Advanced Technologies, 2022, 33, 1402-1411.	3.2	32
10	Optimizing the two-stage adsorber of NaOH-activated coconut shell carbon for methylene blue removal. International Journal of Chemical Reactor Engineering, 2022, 20, 903-910.	1.1	1
11	Optimization of synergistic green emulsion liquid membrane stability for enhancement of silver recovery from aqueous solution. Korean Journal of Chemical Engineering, 2022, 39, 423-430.	2.7	5
12	A Two-Stage Batch System for Phosphate Removal from Wastewater by Iron-Coated Waste Mussel Shell to Assess the Optimum Adsorbent Dosage. Journal of Water Chemistry and Technology, 2022, 44, 10-20.	0.6	2
13	Scylla Sp. Shell: a potential green adsorbent for wastewater treatment. Toxin Reviews, 2022, 41, 1280-1289.	3.4	5
14	A New solubility model for competing effects of three solvents: Water, ethanol, and supercritical carbon dioxide. Separation Science and Technology, 2022, 57, 2269-2275.	2.5	3
15	Bamboo residue as a potential activated carbon for removal of water pollutants: a commentary. International Wood Products Journal, 2022, 13, 83-90.	1.1	4
16	Malachite green adsorption by calcium-rich crab shell char via two-stage adsorber design. Analele UniversitĂƒÈ›ii Ovidius ConstanÈ›a: Seria Chimie, 2022, 33, 36-40.	0.9	0
17	Reliability of the Mass Transfer Factor Models to Describe the Adsorption of NH4+ by Granular Activated Carbon. International Journal of Environmental Research, 2022, 16, .	2.3	5
18	Effects of zinc chloride impregnation states on specific surface and dielectric properties of activated carbons. International Journal of Chemical Reactor Engineering, 2022, 20, 1229-1233.	1.1	2

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19	Beta-cyclodextrin adsorbents to remove water pollutantsâ€"a commentary. Frontiers of Chemical Science and Engineering, 2022, 16, 1407-1423.	4.4	6
20	Two-stage adsorber optimization of NaOH-prewashed oil palm empty fruit bunch activated carbon for methylene blue removal. Chemical Product and Process Modeling, 2022, .	0.9	0
21	Environmental Awareness in Batik Making Process. Sustainability, 2022, 14, 6094.	3.2	4
22	Equilibrium and kinetics of phenol adsorption by crab shell chitosan. Particulate Science and Technology, 2021, 39, 415-426.	2.1	8
23	Comparative study on the enhancement of thermo-mechanical properties of carbon fiber and glass fiber reinforced epoxy composites. Materials Today: Proceedings, 2021, 39, 956-958.	1.8	33
24	Evaluation of dyes removal by beta-cyclodextrin adsorbent. Materials Today: Proceedings, 2021, 39, 907-910.	1.8	14
25	Effects of physical activation on pore textures and heavy metals removal of fiber-based activated carbons. Materials Today: Proceedings, 2021, 39, 917-921.	1.8	17
26	Dielectric and adsorptive properties of potassium hydroxide-treated castor residue carbons. Materials Today: Proceedings, 2021, 39, 1015-1019.	1.8	0
27	Assessment of thermal regeneration of spent commercial activated carbon for methylene blue dye removal. Particulate Science and Technology, 2021, 39, 504-510.	2.1	11
28	Microporous activated carbon prepared from yarn processing sludge via composite chemical activation for excellent adsorptive removal of malachite green. Surfaces and Interfaces, 2021, 22, 100832.	3.0	13
29	The Alternating Aerobic-Anoxic System for the Treatment of Phosphorus in Waters. Journal of Water Chemistry and Technology, 2021, 43, 155-163.	0.6	2
30	Isotherm and kinetics of methylene blue removal by Musa acuminata peel adsorbents. Acta Chemica Malaysia, 2021, .	0.6	2
31	Optimization in a Two-Stage Sorption of Malachite Green by Date Palm Residue Carbon. , 2021, , .		4
32	Sodium hydroxide-activated Casuarina empty fruit: Isotherm, kinetics and thermodynamics of methylene blue and congo red adsorption. Environmental Technology and Innovation, 2021, 23, 101727.	6.1	25
33	Valorization of Casuarina empty fruit-based activated carbons for dyes removal â€" Activators, isotherm, kinetics and thermodynamics. Surfaces and Interfaces, 2021, 25, 101277.	3.0	12
34	Adsorptive removal of Bisphenol a from aqueous solution using activated carbon from coffee residue. Materials Today: Proceedings, 2021, 47, 1307-1312.	1.8	17
35	Two-Stage Adsorber Design for Methylene Blue Removal by Coconut Shell Activated Carbon. Malaysian Journal of Fundamental and Applied Sciences, 2021, 17, 768-775.	0.8	4
36	Methylene Blue Adsorption onto Neem Leave/Chitosan Aggregates: Isotherm, Kinetics and Thermodynamics Studies. International Journal of Chemical Reactor Engineering, 2020, 18, .	1.1	3

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37	Development of activated carbon pellets using a facile low-cost binder for effective malachite green dye removal. Journal of Cleaner Production, 2020, 253, 119970.	9.3	54
38	Valorization of spent activated carbon in glycerine deodorization unit for methylene blue removal. Carbon Letters, 2020, 31, 721.	5.9	4
39	Decolourisation of malachite green dye by potassium carbonate-treated kernel shell adsorbent. International Journal of Environment and Waste Management, 2020, 25, 498.	0.3	0
40	Effects of chemical activating agents on physical properties of activated carbons â€“ a commentary. Water Practice and Technology, 2020, 15, 863-876.	2.0	5
41	Twigs-derived activated carbons via H3PO4/ZnCl2 composite activation for methylene blue and congo red dyes removal. Scientific Reports, 2020, 10, 14050.	3.3	34
42	The oil-absorbing properties of kapok fibre â€“ a commentary. Journal of Taibah University for Science, 2020, 14, 507-512.	2.5	22
43	Adsorption dynamics of phenol by crab shell chitosan. International Journal of Chemical Reactor Engineering, 2020, 18, .	1.1	1
44	Kinetics and dynamic adsorption of methylene blue by CO2-activated resorcinol formaldehyde carbon gels. Carbon Letters, 2019, 29, 319-326.	5.9	13
45	Carbon-Based Adsorbents from Used Rubber Slipper for Dye Removal. Materials Science Forum, 2019, 951, 83-88.	0.3	0
46	Physicochemical Properties of Oxalic Acid-Modified Chitosan/Neem Leave Composites from Pessu River Crab Shell. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	3
47	Evaluation of methylene blue dye and phenol removal onto modified CO2-activated pyrolysis tyre powder. Journal of Cleaner Production, 2019, 223, 487-498.	9.3	30
48	Preparation and characterization of activated carbons produced from oil palm empty fruit bunches. Tanso, 2019, 2019, 9-13.	0.1	4
49	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.	2.1	19
50	Surface modification of low-cost bentonite adsorbentsâ€”A review. Particulate Science and Technology, 2019, 37, 538-549.	2.1	53
51	Porous Nanomaterials for Heavy Metal Removal. , 2019, , 469-494.		13
52	Adsorption of Malachite Green and Congo Red Dyes from Water: Recent Progress and Future Outlook. Ecological Chemistry and Engineering S, 2019, 26, 119-132.	1.5	48
53	Removal of Malachite Green and Congo Red Dyes from Water by Polyacrylonitrile Carbon Fibre Sorbents. Acta Chemica Malaysia, 2019, 3, 29-34.	0.6	7
54	Isotherm Studies of Malachite Green Removal by Yarn Processing Sludge-Based Activated Carbon. Chemistry, Didactics, Ecology, Metrology, 2019, 24, 127-134.	0.6	2

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55	Eco-adsorbents for Organic Solvents and Grease Removal. , 2019, , 3347-3377.		0
56	Kinetics and Thermodynamics of Dispersed Oil Sorption by Kapok Fiber. Ecological Chemistry and Engineering S, 2019, 26, 759-772.	1.5	6
57	Silver Nanoparticles in the Water Environment in Malaysia: Inspection, characterization, removal, modeling, and future perspective. Scientific Reports, 2018, 8, 986.	3.3	122
58	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	17
59	Physicochemical characteristics of surface modified Dijah-Monkin bentonite. Particulate Science and Technology, 2018, 36, 287-297.	2.1	10
60	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.	2.1	15
61	Preparation, characterization, and dye removal study of activated carbon prepared from palm kernel shell. Environmental Science and Pollution Research, 2018, 25, 5076-5085.	5.3	60
62	Valorization of human hair as methylene blue dye adsorbents. Green Processing and Synthesis, 2018, 7, 344-352.	3.4	13
63	Adsorption of Methylene Blue on Cardboard-Based Activated Carbons Treated with Zinc Chloride and Potassium Hydroxide. Journal of Environmental Chemistry, 2018, 28, 157-161.	0.2	2
64	Eco-Adsorbents for Organic Solvents and Grease Removal. , 2018, , 1-31.		0
65	Microwave-assisted solvent extraction of castor oil from castor seeds. Chinese Journal of Chemical Engineering, 2018, 26, 2516-2522.	3.5	30
66	Surface modification of activated carbon for adsorption of SO2 and NOX: A review of existing and emerging technologies. Renewable and Sustainable Energy Reviews, 2018, 94, 1067-1085.	16.4	159
67	Dielectric properties in microwaveâ€assisted solvent extractionâ€”<scp>P</scp>resent trends and future outlook. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2230.	1.5	2
68	Physicochemical properties of char derived from palm fatty acid distillate. Malaysian Journal of Fundamental and Applied Sciences, 2018, 14, 403-406.	0.8	4
69	Kinetic Modeling of Supercritical Fluid Extraction of Betel Nut. International Journal of Automotive and Mechanical Engineering, 2018, 15, 5273-5284.	0.9	5
70	Activated carbons by zinc chloride activation for dye removal â€“ a commentary. Acta Chimica Slovaca, 2018, 11, 99-106.	0.8	46
71	Adsorptive characteristics and microwave dielectric properties of oil palm empty fruit bunch-based activated carbons for dye removal. Malaysian Journal of Fundamental and Applied Sciences, 2018, 14, 241-245.	0.8	0
72	Dielectric properties of potassium carbonateâ€impregnated cempedak peel for microwaveâ€assisted activation. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 173-181.	1.5	8

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73	Malachite green adsorption by potassium saltsâ€activated carbons derived from textile sludge: Equilibrium, kinetics and thermodynamics studies. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 159-172.	1.5	23
74	Adsorption properties of cationic rhodamine B dye onto metals chloride-activated castor bean residue carbons. Water Science and Technology, 2017, 75, 864-880.	2.5	16
75	Preliminary evaluation of resorcinol-formaldehyde carbon gels for water pollutants removal. Acta Chimica Slovaca, 2017, 10, 54-60.	0.8	5
76	Multi-metals column adsorption of lead(II), cadmium(II) and manganese(II) onto natural bentonite clay. Water Science and Technology, 2017, 76, 2232-2241.	2.5	13
77	ETHANOL SEPARATION USING SEPABEADS207 ADSORBENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	2
78	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.	0.8	5
79	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.	0.1	13
80	PARAMETRIC INVESTIGATION OF FIXED-TRAY, SEMI-CONTINUOUS DISTILLATION COLUMN FOR ETHANOL SEPARATION FROM WATER. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
81	OXIDATION STABILITY OF CASTOR OIL IN SOLVENT EXTRACTION. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overloc	0.4	1
82	THE EFFECT OF CONVENTIONAL AND MICROWAVE HEATING TECHNIQUES ON TRANSESTERIFICATION OF WASTE COOKING OIL TO BIODIESEL. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
83	Bio-polishing sludge adsorbents for dye removal. Polish Journal of Chemical Technology, 2016, 18, 15-21.	0.5	5
84	Metal chloride salts in the preparation of activated carbon and their hazardous outlook. Desalination and Water Treatment, 2016, 57, 16078-16085.	1.0	10
85	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.	1.0	9
86	Textural Characteristics of ZnCl2-Treated Mesoporous Materials from Local Waste Products. Journal of Applied Science & Process Engineering, 2016, 3, .	0.1	0
87	Metal-Chloride-Activated Empty Fruit-Bunch Carbons for Rhodamine B Removal. Hungarian Journal of Industrial Chemistry, 2016, 44, 129-133.	0.3	3
88	On the view of dielectric properties in microwaveâ€assisted activated carbon preparation. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 953-960.	1.5	12
89	Carbon Dioxide Capture from Reforming Gases using Acetic Acidâ€mixed Chemical Absorbents. Bulletin of the Korean Chemical Society, 2015, 36, 1940-1943.	1.9	1
90	Isotherm Studies of Methylene Blue Adsorption onto Potassium Salts-Modified Textile Sludge. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	2

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91	Removal of Methylene Blue and Copper (II) by Oil Palm Empty Fruit Bunch Sorbents. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	2
92	Dielectric Properties of Potassium Hydroxide-Treated Palm Kernel Shell for Microwave-Assisted Adsorbent Preparation. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	2
93	POTASSIUM CARBONATE-TREATED PALM KERNEL SHELL ADSORBENT FOR CONGO RED REMOVAL FROM WATER. Jurnal Teknologi (Sciences and Engineering), 2015, 75, .	0.4	3
94	Solubility assessment of castor (Ricinus communis L) oil in supercritical CO 2 at different temperatures and pressures under dynamic conditions. Industrial Crops and Products, 2015, 76, 34-40.	5.2	24
95	A parametric investigation of castor oil (Ricinus comminis L) extraction using supercritical carbon dioxide via response surface optimization. Journal of the Taiwan Institute of Chemical Engineers, 2015, 53, 32-39.	5.3	16
96	Adsorption of benzene and toluene onto KOH activated coconut shell based carbon treated with NH 3. International Biodeterioration and Biodegradation, 2015, 102, 245-255.	3.9	135
97	Preparation and characterization of activated carbon from pineapple waste biomass for dye removal. International Biodeterioration and Biodegradation, 2015, 102, 274-280.	3.9	195
98	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	36
99	Potassium hydroxide activation of activated carbon: a commentary. Carbon Letters, 2015, 16, 275-280.	5.9	176
100	Metals Chloride-Activated Castor Bean Residue for Methylene Blue Removal. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	0
101	Use of Supercritical CO2 and R134a as Solvent for Extraction of b-Carotene and a-Tocopherols from Crude Palm Oil. Asian Journal of Chemistry, 2014, 26, 5911-5916.	0.3	9
102	Synthesis and Characterization of Bio-Based Porous Carbons by Two Step Physical Activation with CO2. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.4	2
103	Synthesis and Characterization of Green Porous Carbons with Large Surface Area by Two Step Chemical Activation with KOH. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	5
104	Irradiated Water-activated Waste Tyre Powder for Decolourization of Reactive Orange 16. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.4	5
105	Extraction of Virgin Coconut (Cocos nucifera) Oil Using Supercritical Fluid Carbon Dioxide. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	2
106	Development of Emulsification containing Natural Colorant from Local Plant (Roselle). Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	1
107	Coagulation-Flocculation in Water Treatment using Calotropis Procera Leaves: A case study of River in Kaduna, Nigeria. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	0
108	Enhanced lead(II) binding properties of heat-treated cattle-manure-compost-activated carbons. Desalination and Water Treatment, 2014, 52, 6420-6429.	1.0	8

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109	Removal of Heavy Metals onto KOH-activated Ash-rich Sludge Adsorbent. Energy Procedia, 2014, 61, 2572-2575.	1.8	17
110	Characteristics of Potassium Acetate - Activated Coconut Shell Carbon. Advanced Materials Research, 2014, 1043, 193-197.	0.3	1
111	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture Through Dry Reforming. Energy Procedia, 2014, 61, 2391-2394.	1.8	4
112	Palm oil mill effluent sludge ash as adsorbent for methylene blue dye removal. Desalination and Water Treatment, 2014, 52, 3654-3662.	1.0	29
113	A comparative study of various oil extraction techniques from plants. Reviews in Chemical Engineering, 2014, 30, .	4.4	87
114	Kinetic study of catechin extracted from Areca catechu seeds using green extraction method. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 743-750.	1.5	6
115	Equilibrium and Kinetic Studies of Benzene and Toluene Adsorption onto Microwave Irradiated-Coconut Shell Activated Carbon. Advanced Materials Research, 2014, 1043, 219-223.	0.3	3
116	Removal of 2-methylisoborneol from aqueous solution by cattle manure compost (CMC) derived activated carbons. Journal of Water Supply: Research and Technology - AQUA, 2014, 63, 239-247.	1.4	4
117	A REVIEW OF MIXED REVERSE MICELLE SYSTEM FOR ANTIBIOTIC RECOVERY. Chemical Engineering Communications, 2014, 201, 1664-1685.	2.6	23
118	Zinc Chloride-activated Waste Carbon Powder for Decolourization of Methylene Blue. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	7
119	Sludge-adsorbents from palm oil mill effluent for methylene blue removal. Journal of Environmental Chemical Engineering, 2013, 1, 1091-1098.	6.7	60
120	Critical issues in microwave-assisted activated carbon preparation. Journal of Analytical and Applied Pyrolysis, 2013, 101, 238-241.	5.5	44
121	Effect of heat treatment on copper removal onto manure-compost-activated carbons. Desalination and Water Treatment, 2013, 51, 5608-5616.	1.0	4
122	Extraction of Rubber (<I>Hevea</I> <I>brasiliensis</I>) Seeds Oil Using Supercritical Carbon Dioxide. Journal of Biobased Materials and Bioenergy, 2013, 7, 213-218.	0.3	9
123	Crossflow Microfiltration of Oil in Water Emulsion via Tubular Filters: Evaluation by Mathematical Models on Droplet Deformation and Filtration. Jurnal Teknologi (Sciences and Engineering), 2012, , .	0.4	2
124	Relationship between Helium Degassing of Cattle-Manure-Compost Adsorbents and Copper Ions Removal. International Journal of Organic Chemistry, 2012, 02, 262-266.	0.7	2
125	Adsorption of heavy metals onto activated carbons derived from polyacrylonitrile fiber. Journal of Hazardous Materials, 2010, 180, 552-560.	12.4	163
126	Adsorption of aqueous metal ions on cattle-manure-compost based activated carbons. Journal of Hazardous Materials, 2009, 170, 1119-1124.	12.4	107

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127	Water vapor adsorption onto activated carbons prepared from cattle manure compost (CMC). Applied Surface Science, 2008, 254, 4868-4874.	6.1	25
128	Adsorption of copper(II) ions onto activated carbons treated by ammonia gas. Journal of Environmental Chemistry, 2008, 18, 533-539.	0.2	10
129	Influence of Acidic Functional Groups of Activated Carbon and Solution pH on Cadmium Ion Adsorption. Journal of Ion Exchange, 2008, 19, 95-100.	0.3	9
130	Effect of out-gassing of ZnCl2-activated cattle manure compost (CMC) on adsorptive removal of Cu (II) and Pb (II) ions. Tanso, 2008, 2008, 220-226.	0.1	5
131	Optimization of Preparation of Microwave Irradiated Bio-Based Materials as Porous Carbons for VOCs Removal Using Response Surface Methodology. Applied Mechanics and Materials, 0, 554, 175-179.	0.2	2
132	Dielectric Properties for the Ring Opening Polymerisation of Îµ-Caprolactone. Applied Mechanics and Materials, 0, 493, 621-627.	0.2	1
133	Comparison on the Characteristics of Bio-Based Porous Carbons by Physical and Novel Chemical Activation. Applied Mechanics and Materials, 0, 554, 22-26.	0.2	5
134	Coffee residue-based activated carbons for phenol removal. Water Practice and Technology, 0, , .	2.0	9
135	Potassium hydroxide-treated palm kernel shell sorbents for the efficient removal of methyl violet dye. , 0, 84, 262-270.		14
136	Adsorption profiles of rhodamine B and reactive orange 16 onto pharmaceutical-based activated charcoals. , 0, 132, 340-349.		1
137	Preparation of textile sludge-derived activated carbon via KI and KOH activation for fast and efficient removal of methylene blue. , 0, 138, 335-345.		3
138	Isotherm, kinetics and thermodynamics of methylene blue dye adsorption onto CO2-activated pyrolysis tyre powder. , 0, 143, 323-332.		3