

Mohammad Boshir Ahmed

List of Publications by Year in descending order

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67
papers

9,939
citations

94433

37
h-index

114465

63
g-index

68
all docs

68
docs citations

68
times ranked

11137
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the occurrence of micropollutants in the aquatic environment and their fate and removal during wastewater treatment. <i>Science of the Total Environment</i> , 2014, 473-474, 619-641.	8.0	2,812
2	Progress in the biological and chemical treatment technologies for emerging contaminant removal from wastewater: A critical review. <i>Journal of Hazardous Materials</i> , 2017, 323, 274-298.	12.4	886
3	Adsorptive removal of antibiotics from water and wastewater: Progress and challenges. <i>Science of the Total Environment</i> , 2015, 532, 112-126.	8.0	860
4	Progress in the preparation and application of modified biochar for improved contaminant removal from water and wastewater. <i>Bioresource Technology</i> , 2016, 214, 836-851.	9.6	597
5	Industrial metal pollution in water and probabilistic assessment of human health risk. <i>Journal of Environmental Management</i> , 2017, 185, 70-78.	7.8	318
6	A critical review on antibiotics and hormones in swine wastewater: Water pollution problems and control approaches. <i>Journal of Hazardous Materials</i> , 2020, 387, 121682.	12.4	295
7	Single and competitive sorption properties and mechanism of functionalized biochar for removing sulfonamide antibiotics from water. <i>Chemical Engineering Journal</i> , 2017, 311, 348-358.	12.7	270
8	Recent Developments of Carboxymethyl Cellulose. <i>Polymers</i> , 2021, 13, 1345.	4.5	258
9	Insight into biochar properties and its cost analysis. <i>Biomass and Bioenergy</i> , 2016, 84, 76-86.	5.7	250
10	Activated carbon preparation from biomass feedstock: Clean production and carbon dioxide adsorption. <i>Journal of Cleaner Production</i> , 2019, 225, 405-413.	9.3	182
11	The fate of pharmaceuticals, steroid hormones, phytoestrogens, UV-filters and pesticides during MBR treatment. <i>Bioresource Technology</i> , 2013, 144, 247-254.	9.6	163
12	Competitive sorption affinity of sulfonamides and chloramphenicol antibiotics toward functionalized biochar for water and wastewater treatment. <i>Bioresource Technology</i> , 2017, 238, 306-312.	9.6	160
13	Feasibility study on a new pomelo peel derived biochar for tetracycline antibiotics removal in swine wastewater. <i>Science of the Total Environment</i> , 2020, 720, 137662.	8.0	156
14	Characterization and sulfonamide antibiotics adsorption capacity of spent coffee grounds based biochar and hydrochar. <i>Science of the Total Environment</i> , 2020, 716, 137015.	8.0	153
15	Comparison study on the ammonium adsorption of the biochars derived from different kinds of fruit peel. <i>Science of the Total Environment</i> , 2020, 707, 135544.	8.0	145
16	Zeolite synthesis from low-cost materials and environmental applications: A review. <i>Environmental Advances</i> , 2020, 2, 100019.	4.8	144
17	Graphitic carbon nitride based nanocomposites for the photocatalysis of organic contaminants under visible irradiation: Progress, limitations and future directions. <i>Science of the Total Environment</i> , 2018, 633, 546-559.	8.0	121
18	Distributing sulfidized nanoscale zerovalent iron onto phosphorus-functionalized biochar for enhanced removal of antibiotic florfenicol. <i>Chemical Engineering Journal</i> , 2019, 359, 713-722.	12.7	120

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19	Performance evaluation of powdered activated carbon for removing 28 types of antibiotics from water. <i>Journal of Environmental Management</i> , 2016, 172, 193-200.	7.8	118
20	Nano-Fe ₀ immobilized onto functionalized biochar gaining excellent stability during sorption and reduction of chloramphenicol via transforming to reusable magnetic composite. <i>Chemical Engineering Journal</i> , 2017, 322, 571-581.	12.7	114
21	Photocatalytic removal of perfluoroalkyl substances from water and wastewater: Mechanism, kinetics and controlling factors. <i>Chemosphere</i> , 2017, 189, 717-729.	8.2	109
22	Sorptive removal of phenolic endocrine disruptors by functionalized biochar: Competitive interaction mechanism, removal efficacy and application in wastewater. <i>Chemical Engineering Journal</i> , 2018, 335, 801-811.	12.7	108
23	High retention membrane bioreactors: Challenges and opportunities. <i>Bioresource Technology</i> , 2014, 167, 539-546.	9.6	101
24	Microplastic particles in the aquatic environment: A systematic review. <i>Science of the Total Environment</i> , 2021, 775, 145793.	8.0	101
25	Preparation of microporous activated carbon and its modification for arsenic removal from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 887-896.	5.8	98
26	Sorption of hydrophobic organic contaminants on functionalized biochar: Protagonist role of π - π electron-donor-acceptor interactions and hydrogen bonds. <i>Journal of Hazardous Materials</i> , 2018, 360, 270-278.	12.4	92
27	Advanced treatment technologies efficacies and mechanism of per- and poly-fluoroalkyl substances removal from water. <i>Chemical Engineering Research and Design</i> , 2020, 136, 1-14.	5.6	91
28	Visible and UV photocatalysis of aqueous perfluorooctanoic acid by TiO ₂ and peroxymonosulfate: Process kinetics and mechanistic insights. <i>Chemosphere</i> , 2020, 243, 125366.	8.2	77
29	The Potentiality of Rice Husk-Derived Activated Carbon: From Synthesis to Application. <i>Processes</i> , 2020, 8, 203.	2.8	76
30	Per- and polyfluoroalkyl substances in soil and sediments: Occurrence, fate, remediation and future outlook. <i>Science of the Total Environment</i> , 2020, 748, 141251.	8.0	75
31	Improving sulfonamide antibiotics removal from swine wastewater by supplying a new pomelo peel derived biochar in an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2021, 319, 124160.	9.6	63
32	Photocatalysis of estrone in water and wastewater: Comparison between Au-TiO ₂ nanocomposite and TiO ₂ , and degradation by-products. <i>Science of the Total Environment</i> , 2018, 610-611, 521-530.	8.0	60
33	Box-Behnken design for extraction optimization of crude polysaccharides from Tunisian <i>Phormidium versicolor</i> cyanobacteria (NCC 466): Partial characterization, in vitro antioxidant and antimicrobial activities. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1501-1510.	7.5	56
34	Improved photocatalysis of perfluorooctanoic acid in water and wastewater by Ga ₂ O ₃ /UV system assisted by peroxymonosulfate. <i>Chemosphere</i> , 2020, 239, 124722.	8.2	55
35	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. <i>Chemical Engineering Research and Design</i> , 2022, 164, 91-108.	5.6	48
36	Particulate matter concentrations and heavy metal contamination levels in the railway transport system of Sydney, Australia. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 62, 112-124.	6.8	47

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37	Chloramphenicol interaction with functionalized biochar in water: sorptive mechanism, molecular imprinting effect and repeatable application. <i>Science of the Total Environment</i> , 2017, 609, 885-895.	8.0	46
38	Genetic effects of welding fumes on the progression of neurodegenerative diseases. <i>NeuroToxicology</i> , 2019, 71, 93-101.	3.0	37
39	Applying a new pomelo peel derived biochar in microbial cell for enhancing sulfonamide antibiotics removal in swine wastewater. <i>Bioresource Technology</i> , 2020, 318, 123886.	9.6	36
40	Efficacies of Carbon-Based Adsorbents for Carbon Dioxide Capture. <i>Processes</i> , 2020, 8, 654.	2.8	34
41	Sorptive removal of dissolved organic matter in biologically-treated effluent by functionalized biochar and carbon nanotubes: Importance of sorbent functionality. <i>Bioresource Technology</i> , 2018, 269, 9-17.	9.6	33
42	Genetic effects of welding fumes on the development of respiratory system diseases. <i>Computers in Biology and Medicine</i> , 2019, 108, 142-149.	7.0	30
43	Removing arsenic from water by coprecipitation with iron: Effect of arsenic and iron concentrations and adsorbent incorporation. <i>Chemosphere</i> , 2019, 226, 431-438.	8.2	30
44	Polysaccharides from <i>Phormidium versicolor</i> (NCC466) protecting HepG2 human hepatocellular carcinoma cells and rat liver tissues from cadmium toxicity: Evidence from in vitro and in vivo tests. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 813-820.	7.5	25
45	Removal of antibiotics (sulfamethazine, tetracycline and chloramphenicol) from aqueous solution by raw and nitrogen plasma modified steel shavings. <i>Science of the Total Environment</i> , 2017, 601-602, 845-856.	8.0	24
46	A computational approach to identify blood cell-expressed Parkinson's disease biomarkers that are coordinately expressed in brain tissue. <i>Computers in Biology and Medicine</i> , 2019, 113, 103385.	7.0	23
47	Conversion of Lignocellulosic Corn Agro-Waste into Cellulose Derivative and Its Potential Application as Pharmaceutical Excipient. <i>Processes</i> , 2020, 8, 711.	2.8	23
48	Machine Learning and Bioinformatics Models to Identify Pathways that Mediate Influences of Welding Fumes on Cancer Progression. <i>Scientific Reports</i> , 2020, 10, 2795.	3.3	23
49	Photolytic and photocatalytic degradation of organic UV filters in contaminated water. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 85-92.	5.9	20
50	Metals extraction processes from electronic waste: constraints and opportunities. <i>Environmental Science and Pollution Research</i> , 2022, 29, 32651-32669.	5.3	19
51	Role of microporosity and surface functionality of activated carbon in methylene blue dye removal from water. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 2228-2234.	2.7	18
52	Machine learning and network-based models to identify genetic risk factors to the progression and survival of colorectal cancer. <i>Computers in Biology and Medicine</i> , 2021, 135, 104539.	7.0	18
53	Estimation of uncertainty in the sampling and analysis of polychlorinated biphenyls and polycyclic aromatic hydrocarbons from contaminated soil in Brighton, UK. <i>Science of the Total Environment</i> , 2014, 497-498, 163-171.	8.0	17
54	Advances in As contamination and adsorption in soil for effective management. <i>Journal of Environmental Management</i> , 2021, 296, 113274.	7.8	16

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55	Chemical and microbiological risk assessment of urban river water quality in Vietnam. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2559-2575.	3.4	15
56	Struvite production using membrane-bioreactor wastewater effluent and seawater. <i>Desalination</i> , 2018, 444, 1-5.	8.2	12
57	Identifying molecular insight of synergistic complexities for SARS-CoV-2 infection with pre-existing type 2 diabetes. <i>Computers in Biology and Medicine</i> , 2021, 136, 104668.	7.0	12
58	Maximum allowable values of the heavy metals in recycled water for household laundry. <i>Science of the Total Environment</i> , 2013, 452-453, 427-432.	8.0	11
59	Adsorption and desorption behavior of arsenite and arsenate at river sediment-water interface. <i>Journal of Environmental Management</i> , 2022, 317, 115497.	7.8	11
60	Production and Characterization of Bio-oil from Bio-mass by Circulating Fluidized Bed Pyrolysis Reactor. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 2011, 46, 313-322.	0.3	7
61	Photocatalysis of 17 β -ethynylestradiol and estriol in water using engineered immersible optical fibres and light emitting diodes. <i>Journal of Water Process Engineering</i> , 2020, 33, 101075.	5.6	7
62	Super-Adsorptive Biodegradable Hydrogel from Simply Treated Sugarcane Bagasse. <i>Gels</i> , 2022, 8, 177.	4.5	5
63	Methods for the analysis of micro-pollutants. , 2020, , 63-86.		2
64	Microorganisms, infection and the role of medical textiles. , 2021, , 45-85.		2
65	Effects of heating rate and heating up time to central biomass particles for bio-oil production. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 2016, 51, 13-22.	0.3	1
66	Sustainable management and treatment technologies for micro-pollutants in wastewater. , 2020, , 1-22.		1
67	Ultraviolet-blocking protective textiles. , 2022, , 395-444.		0