

Mohammad Boshir Ahmed

List of Publications by Citations

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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.

65
papers

6,537
citations

31
h-index

68
g-index

68
ext. papers

8,126
ext. citations

8.2
avg. IF

6.31
L-index

#	Paper	IF	Citations
65	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, 619-41	10.2	2205
64	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	12.8	617
63	Adsorptive removal of antibiotics from water and wastewater: Progress and challenges. <i>Science of the Total Environment</i> , 2015 , 532, 112-26	10.2	606
62	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	11	415
61	Industrial metal pollution in water and probabilistic assessment of human health risk. <i>Journal of Environmental Management</i> , 2017 , 185, 70-78	7.9	203
60	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	14.7	194
59	Insight into biochar properties and its cost analysis. <i>Biomass and Bioenergy</i> , 2016 , 84, 76-86	5.3	174
58	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	12.8	145
57	The fate of pharmaceuticals, steroid hormones, phytoestrogens, UV-filters and pesticides during MBR treatment. <i>Bioresource Technology</i> , 2013 , 144, 247-54	11	137
56	Competitive sorption affinity of sulfonamides and chloramphenicol antibiotics toward functionalized biochar for water and wastewater treatment. <i>Bioresource Technology</i> , 2017 , 238, 306-312 ¹¹		118
55	Performance evaluation of powdered activated carbon for removing 28 types of antibiotics from water. <i>Journal of Environmental Management</i> , 2016 , 172, 193-200	7.9	89
54	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	14.7	87
53	Activated carbon preparation from biomass feedstock: Clean production and carbon dioxide adsorption. <i>Journal of Cleaner Production</i> , 2019 , 225, 405-413	10.3	86
52	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	6.3	86
51	High retention membrane bioreactors: challenges and opportunities. <i>Bioresource Technology</i> , 2014 , 167, 539-46	11	85
50	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	10.2	80
49	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	10.2	77

48	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	10.2	74
47	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	14.7	72
46	Characterization and sulfonamide antibiotics adsorption capacity of spent coffee grounds based biochar and hydrochar. <i>Science of the Total Environment</i> , 2020 , 716, 137015	10.2	68
45	Photocatalytic removal of perfluoroalkyl substances from water and wastewater: Mechanism, kinetics and controlling factors. <i>Chemosphere</i> , 2017 , 189, 717-729	8.4	67
44	Distributing sulfidized nanoscale zerovalent iron onto phosphorus-functionalized biochar for enhanced removal of antibiotic florfenicol. <i>Chemical Engineering Journal</i> , 2019 , 359, 713-722	14.7	67
43	Sorption of hydrophobic organic contaminants on functionalized biochar: Protagonist role of π -electron-donor-acceptor interactions and hydrogen bonds. <i>Journal of Hazardous Materials</i> , 2018 , 360, 270-278	12.8	55
42	Photocatalysis of estrone in water and wastewater: Comparison between Au-TiO nanocomposite and TiO, and degradation by-products. <i>Science of the Total Environment</i> , 2018 , 610-611, 521-530	10.2	53
41	Visible and UV photocatalysis of aqueous perfluorooctanoic acid by TiO and peroxymonosulfate: Process kinetics and mechanistic insights. <i>Chemosphere</i> , 2020 , 243, 125366	8.4	40
40	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	7.9	39
39	The Potentiality of Rice Husk-Derived Activated Carbon: From Synthesis to Application. <i>Processes</i> , 2020 , 8, 203	2.9	39
38	Zeolite synthesis from low-cost materials and environmental applications: A review. <i>Environmental Advances</i> , 2020 , 2, 100019	3.5	39
37	Recent Developments of Carboxymethyl Cellulose. <i>Polymers</i> , 2021 , 13,	4.5	38
36	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	5.5	35
35	Per- and polyfluoroalkyl substances in soil and sediments: Occurrence, fate, remediation and future outlook. <i>Science of the Total Environment</i> , 2020 , 748, 141251	10.2	34
34	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	10.2	30
33	Improved photocatalysis of perfluorooctanoic acid in water and wastewater by GaO/UV system assisted by peroxymonosulfate. <i>Chemosphere</i> , 2020 , 239, 124722	8.4	30
32	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	6.4	29
31	Microplastic particles in the aquatic environment: A systematic review. <i>Science of the Total Environment</i> , 2021 , 775, 145793	10.2	26

30	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	11	26
29	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	11	23
28	Genetic effects of welding fumes on the progression of neurodegenerative diseases. <i>NeuroToxicology</i> , 2019 , 71, 93-101	4.4	23
27	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	10.2	20
26	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	7.9	19
25	Removing arsenic from water by coprecipitation with iron: Effect of arsenic and iron concentrations and adsorbent incorporation. <i>Chemosphere</i> , 2019 , 226, 431-438	8.4	17
24	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	17
23	Efficacies of Carbon-Based Adsorbents for Carbon Dioxide Capture. <i>Processes</i> , 2020 , 8, 654	2.9	16
22	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	10.2	15
21	Photolytic and photocatalytic degradation of organic UV filters in contaminated water. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017 , 6, 85-92	7.9	15
20	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	11	15
19	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	2.8	12
18	Genetic effects of welding fumes on the development of respiratory system diseases. <i>Computers in Biology and Medicine</i> , 2019 , 108, 142-149	7	11
17	Machine Learning and Bioinformatics Models to Identify Pathways that Mediate Influences of Welding Fumes on Cancer Progression. <i>Scientific Reports</i> , 2020 , 10, 2795	4.9	11
16	Chemical and microbiological risk assessment of urban river water quality in Vietnam. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 2559-2575	4.7	9
15	Struvite production using membrane-bioreactor wastewater effluent and seawater. <i>Desalination</i> , 2018 , 444, 1-5	10.3	9
14	Conversion of Lignocellulosic Corn Agro-Waste into Cellulose Derivative and Its Potential Application as Pharmaceutical Excipient. <i>Processes</i> , 2020 , 8, 711	2.9	7
13	Maximum allowable values of the heavy metals in recycled water for household laundry. <i>Science of the Total Environment</i> , 2013 , 452-453, 427-32	10.2	7

12	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	6.7	5
11	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	0.5	4
10	Advances in As contamination and adsorption in soil for effective management. <i>Journal of Environmental Management</i> , 2021 , 296, 113274	7.9	4
9	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	3
8	Metals extraction processes from electronic waste: constraints and opportunities.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
7	Genetic Effects of Welding Fumes on the Development of Respiratory System Diseases		2
6	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	2
5	Sustainable management and treatment technologies for micro-pollutants in wastewater 2020 , 1-22		1
4	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	0.5	1
3	Microorganisms, infection and the role of medical textiles 2021 , 45-85		1
2	Methods for the analysis of micro-pollutants 2020 , 63-86		0
1	Ultraviolet-blocking protective textiles 2022 , 395-444		