

Nhamo Chaukura

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

1,913
citations

21
h-index

43
g-index

68
ext. papers

2,350
ext. citations

5.2
avg, IF

5.45
L-index

#	Paper	IF	Citations
65	Triptycene-Based Polymers of Intrinsic Microporosity: Organic Materials That Can Be Tailored for Gas Adsorption. <i>Macromolecules</i> , 2010 , 43, 5287-5294	5.5	246
64	Sources, behaviour, and environmental and human health risks of high-technology rare earth elements as emerging contaminants. <i>Science of the Total Environment</i> , 2018 , 636, 299-313	10.2	231
63	Biochar-based water treatment systems as a potential low-cost and sustainable technology for clean water provision. <i>Journal of Environmental Management</i> , 2017 , 197, 732-749	7.9	182
62	Biochar production and applications in sub-Saharan Africa: opportunities, constraints, risks and uncertainties. <i>Journal of Environmental Management</i> , 2015 , 150, 250-261	7.9	121
61	Nitrogen and hydrogen adsorption by an organic microporous crystal. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3273-7	16.4	118
60	Synthesis, characterisation and methyl orange adsorption capacity of ferric oxide/biochar nano-composites derived from pulp and paper sludge. <i>Applied Water Science</i> , 2017 , 7, 2175-2186	5	91
59	Free Volume Investigation of Polymers of Intrinsic Microporosity (PIMs): PIM-1 and PIM1 Copolymers Incorporating Ethanoanthracene Units. <i>Macromolecules</i> , 2010 , 43, 6075-6084	5.5	90
58	Organic contaminants in African aquatic systems: Current knowledge, health risks, and future research directions. <i>Science of the Total Environment</i> , 2018 , 619-620, 1493-1514	10.2	85
57	Biosorbents for the removal of synthetic organics and emerging pollutants: Opportunities and challenges for developing countries. <i>Environmental Development</i> , 2016 , 19, 84-89	4.1	68
56	Aging and Free Volume in a Polymer of Intrinsic Microporosity (PIM-1) 2012 , 88, 608-619		64
55	Synthesis and nutrient release patterns of a biochar-based NPK slow-release fertilizer. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 405-414	3.3	57
54	Potential uses and value-added products derived from waste polystyrene in developing countries: A review. <i>Resources, Conservation and Recycling</i> , 2016 , 107, 157-165	11.9	57
53	Nitrogen and Hydrogen Adsorption by an Organic Microporous Crystal. <i>Angewandte Chemie</i> , 2009 , 121, 3323-3327	3.6	44
52	Sorptive removal of methylene blue from simulated wastewater using biochars derived from pulp and paper sludge. <i>Environmental Technology and Innovation</i> , 2017 , 8, 132-140	7	36
51	Contemporary issues on the occurrence and removal of disinfection byproducts in drinking water - A review. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103659	6.8	35
50	Chitosan-lignin-titania nanocomposites for the removal of brilliant black dye from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1659-1666	7.9	34
49	Adsorption of Zn(2+) and Ni(2+) in a binary aqueous solution by biosorbents derived from sawdust and water hyacinth (<i>Eichhornia crassipes</i>). <i>Water Science and Technology</i> , 2014 , 70, 1419-27	2.2	32

48	Biochars as media for air pollution control systems: Contaminant removal, applications and future research directions. <i>Science of the Total Environment</i> , 2021 , 753, 142249	10.2	30
47	Conversion of post consumer waste polystyrene into a high value adsorbent and its sorptive properties for Congo Red removal from aqueous solution. <i>Journal of Environmental Management</i> , 2017 , 193, 280-289	7.9	27
46	Removal of Zn ²⁺ and Pb ²⁺ ions from aqueous solution using sulphonated waste polystyrene. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2528-2537	6.8	26
45	Recent advances in the polyurethane-based adsorbents for the decontamination of hazardous wastewater pollutants. <i>Journal of Hazardous Materials</i> , 2021 , 417, 125960	12.8	22
44	Potential for leaching of heavy metals in open-burning bottom ash and soil from a non-engineered solid waste landfill. <i>Chemosphere</i> , 2016 , 147, 144-54	8.4	21
43	A new generation low-cost biochar-clay composite Biscuit Ceramic filter for point-of-use water treatment. <i>Applied Clay Science</i> , 2020 , 185, 105409	5.2	20
42	Insects, Rodents, and Pets as Reservoirs, Vectors, and Sentinels of Antimicrobial Resistance. <i>Antibiotics</i> , 2021 , 10,	4.9	15
41	The properties and removal efficacies of natural organic matter fractions by South African drinking water treatment plants. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103101	6.8	13
40	Assessing the impact of environmental activities on natural organic matter in South Africa and Belgium. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1756-1768	2.6	13
39	Porous materials for the sorption of emerging organic pollutants from aqueous systems: The case for conjugated microporous polymers. <i>Journal of Water Process Engineering</i> , 2017 , 16, 223-232	6.7	12
38	Removal of Trace Metals from Acid Mine Drainage Using a Sequential Combination of Coal Ash-Based Adsorbents and Phytoremediation by Bunchgrass (Vetiver [Vetiveria zizanioides L]). <i>Mine Water and the Environment</i> , 2017 , 36, 520-531	2.4	11
37	Organic pollutants in deep sea: Occurrence, fate, and ecological implications. <i>Water Research</i> , 2021 , 205, 117658	12.5	8
36	The occurrence of natural organic matter in South African water treatment plants. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100809	6.7	7
35	Development and evaluation of a low-cost ceramic filter for the removal of methyl orange, hexavalent chromium, and Escherichia coli from water. <i>Materials Chemistry and Physics</i> , 2020 , 249, 122965	4.4	7
34	COVID-19 pandemic in Uttarakhand, India: Environmental recovery or degradation?. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106595	6.8	7
33	Potential Leaching of Heavy Metals from Pristine and Accelerated Weathered Slag from Recycling of Automobile Lead-Acid Batteries. <i>Environmental Processes</i> , 2018 , 5, 611-629	2.8	7
32	Efficient adsorption of dyes by Alumina synthesized from aluminum wastes: Kinetics, isotherms, thermodynamics and toxicity assessment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106198	6.8	7
31	Competitive sorption of Cd ²⁺ and Pb ²⁺ from a binary aqueous solution by poly (methyl methacrylate)-grafted montmorillonite clay nanocomposite. <i>Applied Water Science</i> , 2017 , 7, 2287-2295	5	6

30	Microplastics in the Aquatic Environment: The Occurrence, Sources, Ecological Impacts, Fate, and Remediation Challenges. <i>Pollutants</i> , 2021 , 1, 95-118		6
29	Review: Natural organic matter in aquatic systems – South African perspective. <i>Water S A</i> , 2018 , 44,	1.3	6
28	Removal of dissolved organic matter from raw water using zero valent iron -carbonaceous conjugated microporous polymer nanocomposites. <i>Physics and Chemistry of the Earth</i> , 2018 , 107, 38-44	3	6
27	Comparative Adsorption of Zn ²⁺ from Aqueous Solution Using Hydroxylated and Sulphonated Biochars Derived from Pulp and Paper Sludge. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	5
26	The Impact of Nanomaterials in Aquatic Systems 2020 , 205-222		5
25	Preparation and Characterization of Polymer-Grafted Montmorillonite-Lignocellulose Nanocomposites by In Situ Intercalative Polymerization. <i>Hindawi Journal of Chemistry</i> , 2016 , 2016, 1-8		5
24	Photodegradation of humic acid in aqueous solution using a TiO ₂ -carbonaceous hyper-cross-linked polystyrene polymer nanocomposite. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 1603-1612	3.3	4
23	Occurrence, behavior, and human exposure and health risks of potentially toxic elements in edible mushrooms with focus on Africa. <i>Environmental Monitoring and Assessment</i> , 2021 , 193, 302	3.1	4
22	Fundamental fouling mechanisms of dissolved organic matter fractions and their implications on the surface modifications of ceramic nanofiltration membranes: insights from a laboratory scale application. <i>Water Science and Technology</i> , 2019 , 80, 1702-1714	2.2	3
21	Abatement of humic acid from aqueous solution using a carbonaceous conjugated microporous polymer derived from waste polystyrene. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 3291-3300	5.1	3
20	A BIOCHAR-BASED POINT-OF-USE WATER TREATMENT SYSTEM FOR THE REMOVAL OF FLUORIDE, CHROMIUM AND BRILLIANT BLUE DYE IN TERNARY SYSTEMS. <i>Environmental Engineering and Management Journal</i> , 2020 , 19, 143-156	0.6	2
19	Lignin and Chitosan-Based Materials for Dye and Metal Ion Remediation in Aqueous Systems. <i>Springer Series on Polymer and Composite Materials</i> , 2018 , 55-73	0.9	2
18	Defluoridation of drinking water using a ceramic filter decorated with iron oxide-biochar composites. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1321-1329	2	2
17	PARAFAC model as an innovative tool for monitoring natural organic matter removal in water treatment plants. <i>Water Science and Technology</i> , 2020 , 81, 1786-1796	2.2	1
16	The Visible light photodegradation of methyl orange and Escherichia coli O157:H7 in wastewater. <i>South African Journal of Science</i> , 2022 , 118,	1.3	1
15	Metal-Organic Framework Nanocomposites for Adsorptive Applications 2020 , 53-72		1
14	Monitoring the characteristics and removal of natural organic matter fractions in selected South African water treatment plants. <i>Water Practice and Technology</i> , 2020 , 15, 932-946	0.9	1
13	Occurrence, Human Health Risks, and Removal of Pharmaceuticals in Aqueous Systems: Current Knowledge and Future Perspectives 63-101		1

12	Strategies and options for the sustainable recovery of rare earth elements from electrical and electronic waste. <i>Chemical Engineering Journal</i> , 2022 , 135992	14.7	1
11	Antibiotic-resistant bacteria and antibiotic resistance genes in aquatic systems: Occurrence, behaviour, and fate 2022 , 121-136		1
10	Characterization of natural organic matter in South African drinking water treatment plants: Towards integrating ceramic membrane filtration.. <i>Water Environment Research</i> , 2022 , 94, e10693	2.8	
9	Biochar-Based Adsorbents for the Removal of Organic Pollutants from Aqueous Systems 2020 , 147-174		
8	Ceramic Nanocomposite Membranes for Dye Removal. <i>Sustainable Textiles</i> , 2022 , 291-303	1.1	
7	Biowaste for Carbon Sequestration. <i>Sustainable Agriculture Reviews</i> , 2019 , 145-159	1.3	
6	Comparative removal efficiencies of natural organic matter by conventional drinking water treatment plants in Zimbabwe and South Africa. <i>Water Environment Research</i> , 2021 , 93, 570-581	2.8	
5	Occurrence and Attenuation of Antibiotics in Water Using Biomass-Derived Materials 2021 , 511-530		
4	Nanocellulose-Based Membranes for the Removal of Dyes from Aquatic Systems. <i>Sustainable Textiles</i> , 2021 , 143-158	1.1	
3	Remediation technologies for contaminated soil systems 2022 , 353-365		
2	(Micro)plastics in the soil system: Occurrence, behaviour, fate, and future directions 2022 , 47-64		
1	Occurrence and behaviour of emerging organic contaminants in aquatic systems 2022 , 67-86		