

# Vhahangwele Masindi

## 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.

60  
papers

1,376  
citations

20  
h-index

36  
g-index

61  
ext. papers

1,843  
ext. citations

5.5  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
60	Recovery of Drinking Water and Nanosized Fe <sub>2</sub> O <sub>3</sub> Pigment from Iron Rich Acid Mine Water <b>2022</b> , 237-287		
59	Co-treatment of acid mine drainage and municipal wastewater effluents: Emphasis on the fate and partitioning of chemical contaminants. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126677	12.8	2
58	Effective treatment of acid mine drainage using a combination of MgO-nanoparticles and a series of constructed wetlands planted with <i>Vetiveria zizanioides</i> : A hybrid and stepwise approach.. <i>Journal of Environmental Management</i> , <b>2022</b> , 310, 114751	7.9	0
57	Emerging remediation potentiality of struvite developed from municipal wastewater for the treatment of acid mine drainage.. <i>Environmental Research</i> , <b>2022</b> , 210, 112944	7.9	8
56	Mechanisms and Approaches for the Removal of Heavy Metals from Acid Mine Drainage and Other Industrial Effluents. <i>Environmental Chemistry for A Sustainable World</i> , <b>2021</b> , 513-537	0.8	0
55	Techno-Economic Analysis of the Reclamation of Drinking Water and Valuable Minerals from Acid Mine Drainage. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 1352	2.4	1
54	Sources of Heavy Metals Pollution. <i>Environmental Chemistry for A Sustainable World</i> , <b>2021</b> , 419-454	0.8	
53	Recovery of phosphate from real municipal wastewater and its application for the production of phosphoric acid. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106625	6.8	0
52	The Treatment of Acid Mine Drainage Using Vertically Flowing Wetland: Insights into the Fate of Chemical Species. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 477	2.4	2
51	A comparative study on the synthesis of magnesium ferrite for the adsorption of metal ions: Insights into the essential role of crystallite size and surface hydroxyl groups. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128523	14.7	11
50	Groundwater contamination in sub-Saharan Africa: Implications for groundwater protection in developing countries. <i>Cleaner Engineering and Technology</i> , <b>2021</b> , 2, 100038	2.7	12
49	Effective removal of arsenate from wastewater using aluminium enriched ferric oxide-hydroxide recovered from authentic acid mine drainage. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125491	12.8	13
48	The performance of thermally activated and vibratory ball milled South African bentonite clay for the removal of chromium ions from aqueous solution. <i>Materials Today: Proceedings</i> , <b>2021</b> , 38, 964-974	1.4	3
47	Advanced application of BOF and SAF slags for the treatment of acid mine drainage (AMD): A comparative study. <i>Materials Today: Proceedings</i> , <b>2021</b> , 38, 934-941	1.4	3
46	Conversion of cryptocrystalline magnesite to MgO nanosheets: Insights into microstructural properties. <i>Materials Today: Proceedings</i> , <b>2021</b> , 38, 1077-1087	1.4	1
45	Facile synthesis of halloysite-bentonite clay/magnesite nanocomposite and its application for the removal of chromium ions: Adsorption and precipitation process. <i>Materials Today: Proceedings</i> , <b>2021</b> , 38, 1088-1101	1.4	3
44	Environmental sustainability of municipal wastewater treatment through struvite precipitation: Influence of operational parameters. <i>Journal of Cleaner Production</i> , <b>2021</b> , 285, 124856	10.3	10

43	Evaluating the efficacy of thermo-mechano-activated cryptocrystalline magnesite nanosheets for the removal of chromium ions from wastewater. <i>Materials Today: Proceedings</i> , <b>2021</b> , 38, 1006-1017	1.4	
42	Systematic assessment of SARS-CoV-2 virus in wastewater, rivers and drinking water - A catchment-wide appraisal. <i>Science of the Total Environment</i> , <b>2021</b> , 800, 149298	10.2	1
41	Innovative spherical biochar for pharmaceutical removal from water: Insight into adsorption mechanism. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 394, 122255	12.8	119
40	Beneficiation of acid mine drainage (AMD): A viable option for the synthesis of goethite, hematite, magnetite, and gypsum [Gearing towards a circular economy concept. <i>Minerals Engineering</i> , <b>2020</b> , 148, 106204	4.9	19
39	Advocating circular economy in wastewater treatment: Struvite formation and drinking water reclamation from real municipal effluents. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103957	6.8	16
38	Innovative Routes for Acid Mine Drainage (AMD) Valorization <b>2020</b> , 189-218		3
37	Dataset on physicochemical and microbial properties of raw water in four drinking water treatment plants based in South Africa. <i>Data in Brief</i> , <b>2020</b> , 31, 105822	1.2	2
36	Evaluation of the efficacy of halloysite nanotubes in the removal of acidic and basic dyes from aqueous solution. <i>Clay Minerals</i> , <b>2019</b> , 54, 197-207	1.3	5
35	Valorization of acid mine drainage (AMD): A simplified approach to reclaim drinking water and synthesize valuable minerals [Pilot study. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103082	6.8	21
34	Computational and experimental study for the desalination of petrochemical industrial effluents using direct contact membrane distillation. <i>Applied Water Science</i> , <b>2019</b> , 9, 1	5	6
33	Preparation and characterisation of high performing magnesite-halloysite nanocomposite and its application in the removal of methylene blue dye. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1184, 389-399	3.4	19
32	Wastewater treatment valorisation by simultaneously removing and recovering phosphate and ammonia from municipal effluents using a mechano-thermo activated magnesite technology. <i>Journal of Environmental Management</i> , <b>2019</b> , 250, 109493	7.9	12
31	Facile thermal activation of non-reactive cryptocrystalline magnesite and its application on the treatment of acid mine drainage. <i>Journal of Environmental Management</i> , <b>2019</b> , 236, 499-509	7.9	18
30	Fractional and step-wise recovery of chemical species from acid mine drainage using calcined cryptocrystalline magnesite nano-sheets: An experimental and geochemical modelling approach. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 1634-1650	6.8	26
29	Assessing the sustainability of acid mine drainage (AMD) treatment in South Africa. <i>Science of the Total Environment</i> , <b>2018</b> , 635, 793-802	10.2	41
28	Reclamation of water and the synthesis of gypsum and limestone from acid mine drainage treatment process using a combination of pre-treated magnesite nanosheets, lime, and CO <sub>2</sub> bubbling. <i>Water Resources and Industry</i> , <b>2018</b> , 20, 1-14	4.5	22
27	Fate of pollutants post treatment of acid mine drainage with basic oxygen furnace slag: Validation of experimental results with a geochemical model. <i>Journal of Cleaner Production</i> , <b>2018</b> , 172, 2899-2909	10.3	20
26	Environmental Contamination by Heavy Metals <b>2018</b> ,		176

25	Calcined magnesite as an adsorbent for cationic and anionic dyes: characterization, adsorption parameters, isotherms and kinetics study. <i>Heliyon</i> , <b>2018</b> , 4, e00838	3.6	26
24	Synthesis of cryptocrystalline magnesite-bentonite clay composite and its application for neutralization and attenuation of inorganic contaminants in acidic and metalliferous mine drainage. <i>Journal of Water Process Engineering</i> , <b>2017</b> , 15, 2-17	6.7	26
23	An update on synthetic dyes adsorption onto clay based minerals: A state-of-art review. <i>Journal of Environmental Management</i> , <b>2017</b> , 191, 35-57	7.9	237
22	Simultaneous sorption of As, B, Cr, Mo and Se from coal fly ash leachates by Al <sup>3+</sup> -pillared bentonite clay: implication for the construction of activated geo-synthetic clay liner. <i>Water Practice and Technology</i> , <b>2017</b> , 12, 186-201	0.9	2
21	Application of cryptocrystalline magnesite-bentonite clay hybrid for defluoridation of underground water resources: implication for point of use treatment. <i>Journal of Water Reuse and Desalination</i> , <b>2017</b> , 7, 338-352	2.6	4
20	Removal of boron from aqueous solution using cryptocrystalline magnesite. <i>Journal of Water Reuse and Desalination</i> , <b>2017</b> , 7, 205-213	2.6	5
19	Recovery of drinking water and valuable minerals from acid mine drainage using an integration of magnesite, lime, soda ash, CO <sub>2</sub> and reverse osmosis treatment processes. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 3136-3142	6.8	28
18	Integrated treatment of acid mine drainage using BOF slag, lime/soda ash and reverse osmosis (RO): Implication for the production of drinking water. <i>Desalination</i> , <b>2017</b> , 424, 45-52	10.3	33
17	Integrated treatment of acid mine drainage using cryptocrystalline magnesite and barium chloride. <i>Water Practice and Technology</i> , <b>2017</b> , 12, 727-736	0.9	3
16	Comparison of mine water neutralisation efficiencies of different alkaline generating agents. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 3903-3913	6.8	21
15	Synthesis of magnetite from iron-rich mine water using sodium carbonate. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 2699-2707	6.8	29
14	Synthesis of cryptocrystalline magnesite/bentonite clay composite and its application for removal of phosphate from municipal wastewaters. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 603-12 <sup>2.6</sup>	2.6	10
13	Simultaneous removal of metal species from acidic aqueous solutions using cryptocrystalline magnesite/bentonite clay composite: an experimental and modelling approach. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 1077-1085	10.3	25
12	Removal of boron from aqueous solution using magnesite and bentonite clay composite. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 8754-8764		10
11	Fate of inorganic contaminants post treatment of acid mine drainage by cryptocrystalline magnesite: Complimenting experimental results with a geochemical model. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 4846-4856	6.8	20
10	A novel technology for neutralizing acidity and attenuating toxic chemical species from acid mine drainage using cryptocrystalline magnesite tailings. <i>Journal of Water Process Engineering</i> , <b>2016</b> , 10, 67-77 <sup>6.7</sup>	6.7	40
9	Removal of arsenic from wastewaters by cryptocrystalline magnesite: complimenting experimental results with modelling. <i>Journal of Cleaner Production</i> , <b>2016</b> , 113, 318-324	10.3	18
8	The potential of ball-milled South African bentonite clay for attenuation of heavy metals from acidic wastewaters: Simultaneous sorption of Co <sup>2+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> , Pb <sup>2+</sup> , and Zn <sup>2+</sup> ions. <i>Journal of Environmental Chemical Engineering</i> , <b>2015</b> , 3, 2416-2425	6.8	54

7	Efficiency of ball milled South African bentonite clay for remediation of acid mine drainage. <i>Journal of Water Process Engineering</i> , <b>2015</b> , 8, 227-240	6.7	47
6	Kinetics and equilibrium studies for removal of fluoride from underground water using cryptocrystalline magnesite. <i>Journal of Water Reuse and Desalination</i> , <b>2015</b> , 5, 282-292	2.6	17
5	Passive remediation of acid mine drainage using cryptocrystalline magnesite: A batch experimental and geochemical modelling approach. <i>Water S A</i> , <b>2015</b> , 41, 677	1.3	20
4	Adsorption of phosphate from municipal effluents using cryptocrystalline magnesite: complementing laboratory results with geochemical modelling. <i>Desalination and Water Treatment</i> , <b>2015</b> , 1-13		6
3	Defluoridation of groundwater using Fe <sup>3+</sup> -modified bentonite clay: optimization of adsorption conditions. <i>Desalination and Water Treatment</i> , <b>2015</b> , 53, 1578-1590		45
2	Defluoridation of drinking water using Al <sup>3+</sup> -modified bentonite clay: optimization of fluoride adsorption conditions. <i>Toxicological and Environmental Chemistry</i> , <b>2014</b> , 96, 1294-1309	1.4	33
1	Application of magnesite-bentonite clay composite as an alternative technology for removal of arsenic from industrial effluents. <i>Toxicological and Environmental Chemistry</i> , <b>2014</b> , 96, 1435-1451	1.4	21