

Thabo I Nkambule

List of Publications by Year in descending order

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93
papers

1,526
citations

304368

22
h-index

377514

34
g-index

94
all docs

94
docs citations

94
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	Rejection of trace organic compounds by membrane processes: mechanisms, challenges, and opportunities. <i>Reviews in Chemical Engineering</i> , 2023, 39, 875-910.	2.3	4
2	Adsorption of chemical oxygen demand from textile industrial wastewater through locally prepared bentonite adsorbent. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 1893-1906.	1.8	28
3	Electrochemical Degradation of Chemical Oxygen Demand in the Textile Industrial Wastewater Through the Modified Electrodes. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 5911-5922.	1.7	8
4	Ultrasonic assisted anchoring of Yb ₂ O ₃ nanorods on In ₂ S ₃ nanoflowers for norfloxacin degradation and Cr(VI) reduction in water: Kinetics and degradation pathway. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127969.	2.3	15
5	Toxicity evaluation of TiO ₂ /MWCNT-CNF hybrid nanocomposites with enhanced photocatalytic activity toward freshwater microalgae: <i>Pseudokirchneriella subcapitata</i> . <i>Chemosphere</i> , 2022, 291, 132891.	4.2	7
6	The application of GO-Fe ₃ O ₄ nanocomposite for chromium adsorption from tannery industry wastewater. <i>Journal of Environmental Management</i> , 2022, 305, 114369.	3.8	37
7	Development of floating 3D-microfloral CuO-polysulfone beads for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2022, 46, 102530.	2.6	1
8	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.	1.3	0
9	Cyclic voltammetric determination of calcium in water in the presence of natural organic matter (humic acid) and Cu (II) at gold electrode's surface. , 2022, 1, 100012.		2
10	Two-step chromium photo-precipitation in the sequential UV/Sulfite/Manganese dioxide processes: Efficiency, kinetic, energy-economic evaluation, and sludge survey. <i>Journal of King Saud University - Science</i> , 2022, 34, 101894.	1.6	5
11	Brewery industrial wastewater treatment through mesocosm horizontal subsurface flow constructed wetland. <i>Environment Systems and Decisions</i> , 2022, 42, 265-275.	1.9	4
12	Emerging remediation potentiality of struvite developed from municipal wastewater for the treatment of acid mine drainage. <i>Environmental Research</i> , 2022, 210, 112944.	3.7	31
13	The potential of biochar-photocatalytic nanocomposites for removal of organic micropollutants from wastewater. <i>Science of the Total Environment</i> , 2022, 829, 154648.	3.9	55
14	Green synthesis of kaolin-supported nanoscale zero-valent iron using camellia sinensis extract for effective adsorption of dissolved organic matter: Preparation, adsorption, and Fenton regenerative valorization of a pentavalent adsorbent. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100697.	1.7	0
15	Modeling the antifouling properties of atomic layer deposition surface-modified ceramic nanofiltration membranes. <i>Biofouling</i> , 2022, 38, 441-454.	0.8	2
16	Effect of Zn doping on physico-chemical properties of cobalt ferrite for the photodegradation of amoxicillin and deactivation of <i>E. coli</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 649, 129462.	2.3	19
17	Chitosan modified sugarcane bagasse biochar for the adsorption of inorganic phosphate ions from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108243.	3.3	22
18	Synthesis of cobalt ferrite in one-pot-polyol method, characterization, and application to methylparaben photodegradation in the presence of peroxydisulfate. <i>Materials Today Chemistry</i> , 2022, 26, 101029.	1.7	0

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19	Methyl orange degradation enhanced by hydrogen spillover onto platinum nanocatalyst surface. <i>Applied Organometallic Chemistry</i> , 2021, 35, .	1.7	8
20	Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105523.	1.9	87
21	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.	1.3	0
22	Electrochemical Detection of Environmental Pollutants Based on Graphene Derivatives: A Review. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	38
23	Recent advancement in consolidation of MOFs as absorbents for hydrogen storage. <i>International Journal of Energy Research</i> , 2021, 45, 12481-12499.	2.2	32
24	Microplastics in the Aquatic Environmentâ€”The Occurrence, Sources, Ecological Impacts, Fate, and Remediation Challenges. <i>Pollutants</i> , 2021, 1, 95-118.	1.0	27
25	Chromametric and spectroscopic determinations of natural organic matter in water and caffeine/phosphoric acid-containing soft drink using grape (<i>V. vinifera</i>) extract. <i>Food Chemistry</i> , 2021, 348, 129146.	4.2	2
26	Bimetallic Au@Pd nanodendrite system incorporating multimodal intracellular imaging for improved doxorubicin antitumor efficiency. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120661.	2.6	8
27	Conductive Nanodiamond-Based Detection of Neurotransmitters: One Decade, Few Sensors. <i>ACS Omega</i> , 2021, 6, 18548-18558.	1.6	6
28	Nuclear targeted multimodal 3D-bimetallic Au@Pd nanodendrites promote doxorubicin efficiency in breast cancer therapy. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103344.	2.3	6
29	A critical review of environmental and public health impacts from the activities of evaporation ponds. <i>Science of the Total Environment</i> , 2021, 796, 149065.	3.9	18
30	Physico-chemical dynamics of protein corona formation on 3D-bimetallic Au@Pd nanodendrites and its implications on biocompatibility. <i>Journal of Molecular Liquids</i> , 2021, 341, 117329.	2.3	4
31	The occurrence of opioid compounds in wastewater treatment plants and their receiving water bodies in Gauteng province, South Africa. <i>Environmental Pollution</i> , 2021, 290, 118048.	3.7	6
32	Multi-dimensional applications of graphitic carbon nitride nanomaterials â€” A review. <i>Journal of Molecular Liquids</i> , 2021, 344, 117820.	2.3	46
33	Catalytic hydrodehalogenation of halogenated disinfection byproducts for clean drinking water production: A review. <i>Journal of Water Process Engineering</i> , 2021, 44, 102402.	2.6	6
34	Simple fabrication and unprecedented visible light response of NiNb ₂ O ₆ /RGO heterojunctions for the degradation of emerging pollutants in water. <i>New Journal of Chemistry</i> , 2021, 45, 22697-22713.	1.4	7
35	Heavy Metal Speciation, Microbial Study and Physicochemical Properties of Some Groundwaters: A Case Study. <i>Chemistry Africa</i> , 2020, 3, 211-226.	1.2	5
36	Spinel ferrite nanoparticles and nanocomposites for biomedical applications and their toxicity. <i>Materials Science and Engineering C</i> , 2020, 107, 110314.	3.8	155

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37	The occurrence and exposure risk assessment of psychoactive drug residues and metabolites in aquatic environment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 178, 112944.	1.4	9
38	State of the art on the photocatalytic applications of graphene based nanostructures: From elimination of hazardous pollutants to disinfection and fuel generation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103505.	3.3	39
39	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.	3.3	76
40	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.	2.6	38
41	Denitrification enhancement by electro-sorption/reduction using a layered metal oxide electrode loaded with Pd-Cu nanoparticles. <i>Electrochemistry Communications</i> , 2020, 110, 106607.	2.3	11
42	Quantification of biodegradable natural organic matter (NOM) fractions and its impact on bacterial regrowth in a South African Water Treatment Plant. <i>Journal of Water Process Engineering</i> , 2020, 36, 101332.	2.6	10
43	Risk-based Stochastic Optimization of Evaporation Ponds as a Cost-Effective and Environmentally-Friendly Solution for the Disposal of Oil-Produced Water. <i>Journal of Water Process Engineering</i> , 2020, 38, 101607.	2.6	13
44	Progress in electrochemical detection of neurotransmitters using carbon nanotubes/nanocomposite based materials: A chronological review. <i>Nano Select</i> , 2020, 1, 561-611.	1.9	9
45	Electrochemical detection of natural organic matter (humic acid) and splitting of hydrogen peroxide on a micropore 3D catalytic polysulfone-copper oxide nanocomposite surface. <i>MRS Communications</i> , 2020, 10, 519-527.	0.8	1
46	Therapeutic nanodendrites: current applications and prospects. <i>Nanoscale Advances</i> , 2020, 2, 5152-5165.	2.2	15
47	Ferricyanide reduction to elucidate kinetic and electrochemical activities on the metal nanocatalysts surface. <i>Chemical Engineering Journal</i> , 2020, 398, 125623.	6.6	6
48	Nanosilver dumbbell electronic sheet for cyanide and glucose detection. <i>Microelectronic Engineering</i> , 2020, 230, 111364.	1.1	4
49	The status and quantification of de facto water reuse in South Africa – a review. <i>Water Practice and Technology</i> , 2020, 15, 225-247.	1.0	2
50	Enhanced photoactivity of cerium tungstate-modified graphitic carbon nitride heterojunction photocatalyst for the photodegradation of moxifloxacin. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11434-11447.	1.1	25
51	Determination of humic acid (HA) and sodium alginate in water using Fe ₂ O ₃ and CuO nanoparticle-modified glassy carbon electrode. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-21.	1.8	4
52	Catalytic degradation of hematin (malaria biomarker) using some selected metal oxide nanoparticles. <i>Materials Research Express</i> , 2020, 7, 015044.	0.8	2
53	Graphene quantum dot-based nanostructures for water treatment. , 2020, , 193-215.		4
54	Impact of zinc oxide nanoparticles in aqueous environments: influence of concentrations, natural organic matter and ionic strength. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 680-692.	0.9	8

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55	The stimuli-responsive properties of doxorubicin adsorbed onto bimetallic Au@Pd nanodendrites and its potential application as drug delivery platform. <i>Materials Science and Engineering C</i> , 2020, 110, 110696.	3.8	26
56	Doxorubicin conjugated hydrophilic AuPt bimetallic nanoparticles fabricated from <i>Phragmites australis</i> : Characterization and cytotoxic activity against human cancer cells. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 57, 101749.	1.4	21
57	Development and evaluation of a low-cost ceramic filter for the removal of methyl orange, hexavalent chromium, and <i>Escherichia coli</i> from water. <i>Materials Chemistry and Physics</i> , 2020, 249, 122965.	2.0	15
58	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.	1.2	3
59	Fabrication of palladium and platinum nanocatalysts stabilized by polyvinylpyrrolidone and their use in the hydrogenolysis of methyl orange. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 129, 991-1005.	0.8	3
60	Detection of humic acid in water using flat-sheet and folded-rod viscous alkaline glucose syrups. <i>Analyst</i> , 2020, 145, 2682-2691.	1.7	3
61	Chemical modification of sugarcane bagasse with chitosan for the removal of phosphates in aqueous solution. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4
62	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.	1.0	2
63	Investigating the fate of natural organic matter at a drinking water treatment plant in South Africa using optical spectroscopy and chemometric analysis. <i>Water S A</i> , 2020, 46, .	0.2	2
64	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.	1.8	6
65	Interactions between Organic Model Compounds and Ion Exchange Resins. <i>Environmental Science & Technology</i> , 2019, 53, 9734-9743.	4.6	14
66	Detection of low-level humic acid in water using room temperature-synthesized copper (I) oxide colloids. <i>MRS Communications</i> , 2019, 9, 1317-1322.	0.8	4
67	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.	3.3	17
68	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.	1.2	14
69	The occurrence of natural organic matter in South African water treatment plants. <i>Journal of Water Process Engineering</i> , 2019, 31, 100809.	2.6	9
70	Development of Electrochemical Nanosensor for the Detection of Malaria Parasite in Clinical Samples. <i>Frontiers in Chemistry</i> , 2019, 7, 89.	1.8	29
71	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.	1.2	6
72	Assessment of trihalomethane (THM) precursors using specific ultraviolet absorbance (SUVA) and molecular size distribution (MSD). <i>Journal of Water Process Engineering</i> , 2019, 27, 143-151.	2.6	30

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73	Synthesis and application of hematite nanoparticles for acid mine drainage treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1865-1874.	3.3	60
74	Study on adsorption of some common metal ions present in industrial effluents by <i>Moringa stenopetala</i> seed powder. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1378-1389.	3.3	54
75	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.	2.7	5
76	Geochemical scaling potential simulations of natural organic matter complexation with metal ions in cooling water at Eskom power generation plants in South Africa. <i>Water S A</i> , 2018, 44, .	0.2	2
77	Review: Natural organic matter in aquatic systems – a South African perspective. <i>Water S A</i> , 2018, 44, .	0.2	7
78	Comparison of natural organic matter removal by ultrafiltration, granular activated carbon filtration and full scale conventional water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6282-6289.	3.3	32
79	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.	1.2	7
80	<i>Moringa stenopetala</i> bark: A novel green adsorbent for the removal of metal ions from industrial effluents. <i>Physics and Chemistry of the Earth</i> , 2018, 107, 45-57.	1.2	17
81	A novel photodegradation approach for the efficient removal of natural organic matter (NOM) from water. <i>Physics and Chemistry of the Earth</i> , 2018, 106, 97-106.	1.2	20
82	Investigation of natural organic matter (NOM) character and its removal in a chlorinated and chloraminated system at Rand Water, South Africa. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 1287-1297.	1.0	3
83	The Influence of Natural Organic Matter in the Power Generation Industry of South Africa: The Eskom Perspective. <i>Modern Environmental Science and Engineering</i> , 2016, 2, 344-353.	0.3	0
84	Natural organic matter (NOM) in South African waters: NOM characterisation using combined assessment techniques. <i>Water S A</i> , 2012, 38, .	0.2	17
85	Synthesis and characterisation of Pd-modified N-doped TiO ₂ for photocatalytic degradation of natural organic matter (NOM) fractions. <i>Environmental Science and Pollution Research</i> , 2012, 19, 4120-4132.	2.7	23
86	A three step approach for removing organic matter from South African water sources and treatment plants. <i>Physics and Chemistry of the Earth</i> , 2012, 50-52, 132-139.	1.2	12
87	Characterisation of natural organic matter (NOM) and its removal using cyclodextrin polyurethanes. <i>Water S A</i> , 2012, 35, .	0.2	3
88	The characterisation of natural organic matter (NOM) in South African waters. <i>Water Science and Technology: Water Supply</i> , 2012, 12, 648-657.	1.0	1
89	Humic acid as a model for natural organic matter (NOM) in the removal of odorants from water by cyclodextrin polyurethanes. <i>Water S A</i> , 2012, 35, .	0.2	9
90	Treatability and characterization of Natural Organic Matter (NOM) in South African waters using newly developed methods. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1159-1166.	1.2	16

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91	NOM characterization and removal at six Southern African water treatment plants. <i>Drinking Water Engineering and Science</i> , 2010, 3, 53-61.	0.8	22
92	Removal of natural organic matter from water using ion-exchange resins and cyclodextrin polyurethanes. <i>Physics and Chemistry of the Earth</i> , 2009, 34, 812-818.	1.2	31
93	Comparative assessment of thermal and thermochemical activation methods of South African kaolinite for effective adsorptive sequestration of humic acid from aqueous media. <i>Separation Science and Technology</i> , 0, , 1-13.	1.3	0