

# Bhekie B Mamba

## List of Publications by Year in descending order

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374  
papers

11,873  
citations

38742  
50  
h-index

48315  
88  
g-index

375  
all docs

375  
docs citations

375  
times ranked

13657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metagenomic insights into taxonomic diversity and metabolic potential of bacterial communities associated with tannery waste-contaminated soils. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2409-2424.	3.5	5
2	Fouling, performance and cost analysis of membrane-based water desalination technologies: A critical review. <i>Journal of Environmental Management</i> , 2022, 301, 113922.	7.8	71
3	Toxicity evaluation of TiO <sub>2</sub> /MWCNT-CNF hybrid nanocomposites with enhanced photocatalytic activity toward freshwater microalgae: <i>Pseudokirchneriella subcapitata</i> . <i>Chemosphere</i> , 2022, 291, 132891.	8.2	7
4	The synergistic effect of peracetic acid activated by graphene oxide quantum dots in the inactivation of <i>E. coli</i> and organic dye removal with LED reactor light. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2022, 57, 268-281.	1.7	4
5	Methyl orange degradation enhanced by hydrogen spillover onto platinum nanocatalyst surface. <i>Applied Organometallic Chemistry</i> , 2021, 35, .	3.5	8
6	Unraveling bacterial diversity in oil refinery effluents. <i>Archives of Microbiology</i> , 2021, 203, 1231-1240.	2.2	2
7	Synthesis of Bi <sub>5</sub> O <sub>7</sub> I-MoO <sub>3</sub> photocatalyst via simultaneous calcination of BiOI and MoS <sub>2</sub> for visible light degradation of ibuprofen. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 126004.	4.7	38
8	Fine-tuning the architecture of loose nanofiltration membrane for improved water flux, dye rejection and dye/salt selective separation. <i>Journal of Membrane Science</i> , 2021, 621, 118930.	8.2	32
9	Promoting effect of PdZn alloy for selective hydrogenation of 5-hydroxymethylfurfural: An experimental and density functional theory study. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26545.	2.0	3
10	Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105523.	4.0	87
11	Azole antifungal resistance in fungal isolates from wastewater treatment plant effluents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3217-3229.	5.3	10
12	Microwave-assisted synthesis of titania/amorphous carbon nanotubes/amorphous nitrogen-doped carbon nanotubes nanohybrids for photocatalytic degradation of textile wastewater. <i>RSC Advances</i> , 2021, 11, 6748-6763.	3.6	8
13	Electrochemical Detection of Environmental Pollutants Based on Graphene Derivatives: A Review. <i>Frontiers in Materials</i> , 2021, 7, .	2.4	38
14	Electrochemical Detection of Endosulfan Using an AONP-PANI-SWCNT Modified Glassy Carbon Electrode. <i>Materials</i> , 2021, 14, 723.	2.9	22
15	Titania containing natural clay doped with carbon nanotubes for enhanced natural photocatalytic discoloration of wastewater. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	5
16	Mechanistic aspects for the enhanced adsorption of bromophenol blue and atrazine over cyclodextrin modified polyacrylonitrile nanofiber membranes. <i>Chemical Engineering Research and Design</i> , 2021, 169, 19-32.	5.6	37
17	Nitrogen-doped carbon dots as high-effective inhibitors for carbon steel in acidic medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126280.	4.7	39
18	Viral Communities Distribution and Diversity in a Wastewater Treatment Plants Using High-throughput Sequencing Analysis. <i>Polish Journal of Environmental Studies</i> , 2021, 30, 3189-3201.	1.2	1

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19	Bimetallic Au@Pd nanodendrite system incorporating multimodal intracellular imaging for improved doxorubicin antitumor efficiency. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120661.	5.2	8
20	Conductive Nanodiamond-Based Detection of Neurotransmitters: One Decade, Few Sensors. <i>ACS Omega</i> , 2021, 6, 18548-18558.	3.5	6
21	A facile approach for the preparation of NiONPs@MnO <sub>2</sub> NRs nanocomposite material and its photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	13
22	Selective separation of dye and salt by PES/SPSf tight ultrafiltration membrane: Roles of size sieving and charge effect. <i>Separation and Purification Technology</i> , 2021, 266, 118587.	7.9	50
23	Photocatalytic Nanofiber Membranes for the Degradation of Micropollutants and Their Antimicrobial Activity: Recent Advances and Future Prospects. <i>Membranes</i> , 2021, 11, 678.	3.0	23
24	In situ generated silver nanoparticles embedded in polyethersulfone nanostructured membranes (Ag@PES) for antimicrobial decontamination of water. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 3185-3195.	3.2	5
25	Ag <sub>2</sub> Bi <sub>5</sub> Perovskite Quantum Dots Passivated with Oleylamine Sulfide for Solar Cells and Detection of Cu(II) Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 9895-9903.	5.0	7
26	Sustainable Hydrothermal and Solvothermal Synthesis of Advanced Carbon Materials in Multidimensional Applications: A Review. <i>Materials</i> , 2021, 14, 5094.	2.9	31
27	A review on water treatment technologies for the management of oxoanions: prospects and challenges. <i>Environmental Science and Pollution Research</i> , 2021, 28, 61979-61997.	5.3	11
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.	4.9	6
29	Synthesis of single-phase superparamagnetic copper ferrite nanoparticles using an optimized coprecipitation method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115368.	3.5	24
30	The Py GC-TOF-MS analysis and characterization of microplastics (MPs) in a wastewater treatment plant in Gauteng Province, South Africa. <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112478.	6.0	13
31	The applications of graphene oxide quantum dots in the removal of emerging pollutants in water: An overview. <i>Journal of Water Process Engineering</i> , 2021, 43, 102249.	5.6	26
32	Charcoal ash leachate and its sparingly soluble residue for acid mine drainage treatment: Waste for pollution remediation and dual resource recovery. <i>Journal of Cleaner Production</i> , 2021, 320, 128717.	9.3	7
33	Recent advances in degradation of pharmaceuticals using Bi <sub>2</sub> WO <sub>6</sub> mediated photocatalysis – A comprehensive review. <i>Environmental Pollution</i> , 2021, 289, 117891.	7.5	77
34	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.	4.9	4
35	Fabrication of a La-doped BiVO <sub>4</sub> @CN step-scheme heterojunction for effective tetracycline degradation with dual-enhanced molecular oxygen activation. <i>Separation and Purification Technology</i> , 2021, 277, 119224.	7.9	31
36	Cobalt oxide/copper bismuth oxide/samarium vanadate (Co <sub>3</sub> O <sub>4</sub> /CuBi <sub>2</sub> O <sub>4</sub> /SmVO <sub>4</sub> ) dual Z-scheme heterostructured photocatalyst with high charge-transfer efficiency: Enhanced carbamazepine degradation under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 666-684.	9.4	61

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37	Interdependence of Contributing Factors Governing Dead-End Fouling of Nanofiltration Membranes. Membranes, 2021, 11, 47.	3.0	9
38	Covalent immobilization of laccase on Fe <sub>3</sub> O <sub>4</sub> @graphene oxide nanocomposite for biodegradation of phenolic compounds. Environmental Protection Engineering, 2021, 47, .	0.1	3
39	Antifungal azoles and azole resistance in the environment: current status and future perspectives—a review. Reviews in Environmental Science and Biotechnology, 2021, 20, 1011-1041.	8.1	11
40	Multi-dimensional applications of graphitic carbon nitride nanomaterials – A review. Journal of Molecular Liquids, 2021, 344, 117820.	4.9	46
41	ISOLATION OF TALAROMYCES FLAVUS FROM ROODEPLAAT DAM AND SCREENING OF ITS SECONDARY METABOLITES IN ARTIFICIAL MEDIA. Applied Ecology and Environmental Research, 2021, 19, 3505-3518.	0.5	0
42	Catalytic hydrodehalogenation of halogenated disinfection byproducts for clean drinking water production: A review. Journal of Water Process Engineering, 2021, 44, 102402.	5.6	6
43	Data on physicochemical properties of natural clay and natural clay/multiwalled carbon nanotubes composite materials for various applications possibilities. Data in Brief, 2021, 39, 107682.	1.0	2
44	Occurrence and spatial distribution of statins, fibrates and their metabolites in aquatic environments. Arabian Journal of Chemistry, 2020, 13, 4358-4373.	4.9	33
45	Acid Mine Drainage as Habitats for Distinct Microbiomes: Current Knowledge in the Era of Molecular and Omic Technologies. Current Microbiology, 2020, 77, 657-674.	2.2	17
46	Heavy Metal Speciation, Microbial Study and Physicochemical Properties of Some Groundwaters: A Case Study. Chemistry Africa, 2020, 3, 211-226.	2.4	5
47	Relating the performance of sulfonated thin-film composite nanofiltration membranes to structural properties of macrovoid-free polyethersulfone/sulfonated polysulfone/O-MWCNT supports. Desalination, 2020, 474, 114176.	8.2	42
48	Spinel ferrite nanoparticles and nanocomposites for biomedical applications and their toxicity. Materials Science and Engineering C, 2020, 107, 110314.	7.3	155
49	Hollow Bi <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> heterostructure microsphere with controllable crystal phase for efficient photocatalysis. Chemical Engineering Journal, 2020, 387, 124100.	12.7	92
50	Poly (propylene imine) dendrimer: A potential nanomaterial for electrochemical application. Materials Chemistry and Physics, 2020, 244, 122641.	4.0	40
51	The occurrence and exposure risk assessment of psychoactive drug residues and metabolites in aquatic environment. Journal of Pharmaceutical and Biomedical Analysis, 2020, 178, 112944.	2.8	9
52	Distribution profile of titanium dioxide nanoparticles in South African aquatic systems. Water Science and Technology: Water Supply, 2020, 20, 516-528.	2.1	5
53	Photocatalytic application of spinel ferrite nanoparticles and nanocomposites in wastewater treatment: Review. Sustainable Materials and Technologies, 2020, 23, e00140.	3.3	121
54	Contemporary issues on the occurrence and removal of disinfection byproducts in drinking water - A review. Journal of Environmental Chemical Engineering, 2020, 8, 103659.	6.7	76

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55	Evaluation of charcoal ash nanoparticles pollutant removal capacity from acid mine drainage rich in iron and sulfate. <i>Journal of Cleaner Production</i> , 2020, 251, 119720.	9.3	24
56	Occurrence and risk assessment of azole antifungal drugs in water and wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109868.	6.0	49
57	Graphitic Carbon Nitride: A Highly Electroactive Nanomaterial for Environmental and Clinical Sensing. <i>Sensors</i> , 2020, 20, 5743.	3.8	60
58	Construction of hierarchical BiPW12O <sub>40</sub> /BiOI p-n heterojunction with enhanced visible light activity for degradation of endocrine disrupting Bisphenol A. <i>Separation and Purification Technology</i> , 2020, 253, 117349.	7.9	53
59	Hydrothermal carbon-supported Ni catalysts for selective hydrogenation of 5-hydroxymethylfurfural toward tunable products. <i>Journal of Materials Science</i> , 2020, 55, 14179-14196.	3.7	22
60	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.	5.6	10
61	Geochemical and Physicochemical Characteristics of Clay Materials from Congo with Photocatalytic Activity on 4-Nitrophenol in Aqueous Solutions. <i>ACS Omega</i> , 2020, 5, 29943-29954.	3.5	5
62	Carbon-Based Quantum Dots for Electrochemical Detection of Monoamine Neurotransmitters—Review. <i>Biosensors</i> , 2020, 10, 162.	4.7	22
63	Corrigendum to “Sulfur/Gadolinium-Codoped TiO <sub>2</sub> Nanoparticles for Enhanced Visible-Light Photocatalytic Performance” <i>Journal of Nanomaterials</i> , 2020, 2020, 1-1.	2.7	0
64	A critical review of selected membrane- and powder-based adsorbents for water treatment: Sustainability and effectiveness. <i>Journal of Cleaner Production</i> , 2020, 277, 123497.	9.3	36
65	A unique method for dopamine-cross-linked graphene nanoplatelets within polyethersulfone membranes (GNP-pDA/PES) for enhanced mechanochemical resistance during NF and RO desalination. <i>European Polymer Journal</i> , 2020, 136, 109889.	5.4	16
66	A comparison of the influence of synthesis methods on the photocatalytic activity of nitrogen doped titania-carbon nanotube nanohybrids. <i>Applied Catalysis A: General</i> , 2020, 604, 117776.	4.3	3
67	Novel hybrid metal loaded chelating resins for removal of toxic metals from acid mine drainage. <i>Water Science and Technology</i> , 2020, 81, 2568-2584.	2.5	3
68	Nickel Selenide Quantum Dot Applications in Electrocatalysis and Sensors. <i>Electroanalysis</i> , 2020, 32, 2603-2614.	2.9	6
69	Stable Lead-Free Silver Bismuth Iodide Perovskite Quantum Dots for UV Photodetection. <i>ACS Applied Nano Materials</i> , 2020, 3, 9141-9150.	5.0	34
70	A New Method for a Polyethersulfone-Based Dopamine-Graphene (xGNP-DA/PES) Nanocomposite Membrane in Low/Ultra-Low Pressure Reverse Osmosis (L/ULPRO) Desalination. <i>Membranes</i> , 2020, 10, 439.	3.0	7
71	Therapeutic nanodendrites: current applications and prospects. <i>Nanoscale Advances</i> , 2020, 2, 5152-5165.	4.6	15
72	Amorphous carbon nanotube residue modification of solgel-synthesized C-, N-doped TiO <sub>2</sub> for photocatalytic applications. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	1

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73	Ultrathin NiFeS Nanomeshes with Sulfur Vacancy for Electrocatalytic Hydrogen Evolution. ChemElectroChem, 2020, 7, 2199-2204.	3.4	5
74	Ferricyanide reduction to elucidate kinetic and electrochemical activities on the metal nanocatalysts surface. Chemical Engineering Journal, 2020, 398, 125623.	12.7	6
75	One-step hydrothermal fabrication of SrMoO <sub>4</sub> /MoS <sub>2</sub> composites with strong interfacial contacts for efficient photoreduction removal of Cr(VI). CrystEngComm, 2020, 22, 4489-4499.	2.6	13
76	Laccase Immobilized Fe <sub>3</sub> O <sub>4</sub> -Graphene Oxide Nanobiocatalyst Improves Stability and Immobilization Efficiency in the Green Preparation of Sulfa Drugs. Catalysts, 2020, 10, 459.	3.5	19
77	Preparation of carbon-coated brookite@anatase TiO <sub>2</sub> heterophase junction nanocables with enhanced photocatalytic performance. Photochemical and Photobiological Sciences, 2020, 19, 966-975.	2.9	3
78	The status and quantification of de facto water reuse in South Africa – a review. Water Practice and Technology, 2020, 15, 225-247.	2.0	2
79	Trace samarium doped graphitic carbon nitride photocatalytic activity toward metanil yellow dye degradation under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125107.	4.7	22
80	Determination of humic acid (HA) and sodium alginate in water using Fe <sub>2</sub> O <sub>3</sub> and CuO nanoparticle-modified glassy carbon electrode. International Journal of Environmental Analytical Chemistry, 2020, , 1-21.	3.3	4
81	Plasmonic Ag <sub>3</sub> PO <sub>4</sub> /EG photoanode for visible light-driven photoelectrocatalytic degradation of diuretic drug. Chemical Engineering Journal, 2020, 393, 124804.	12.7	43
82	Effect of multivalent cations on membrane-foulant and foulant-foulant interactions controlling fouling of nanofiltration membranes. Polymers for Advanced Technologies, 2020, 31, 2588-2600.	3.2	11
83	Catalytic degradation of hemozoin (malaria biomarker) using some selected metal oxide nanoparticles. Materials Research Express, 2020, 7, 015044.	1.6	2
84	The role and influence of hydrogeochemistry in the behaviour and fate of silver nanoparticles in freshwater systems. SN Applied Sciences, 2020, 2, 1.	2.9	4
85	Photoelectrocatalytic evaluation of EG-CeO <sub>2</sub> photoanode on degradation of 2,4-dichlorophenol. Solar Energy Materials and Solar Cells, 2020, 208, 110416.	6.2	31
86	Impact of zinc oxide nanoparticles in aqueous environments: influence of concentrations, natural organic matter and ionic strength. Inorganic and Nano-Metal Chemistry, 2020, 50, 680-692.	1.6	8
87	Gold nanoparticles modified exfoliated graphite electrode as electrochemical sensor in the determination of psychoactive drug. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2020, 55, 455-461.	1.5	7
88	Morphological Influence of TiO <sub>2</sub> Nanostructures on Charge Transfer and Tetracycline Degradation Under LED Light. ChemistrySelect, 2020, 5, 1037-1040.	1.5	4
89	The stimuli-responsive properties of doxorubicin adsorbed onto bimetallic Au@Pd nanodendrites and its potential application as drug delivery platform. Materials Science and Engineering C, 2020, 110, 110696.	7.3	26
90	Doxorubicin conjugated hydrophilic AuPt bimetallic nanoparticles fabricated from Phragmites australis: Characterization and cytotoxic activity against human cancer cells. Journal of Drug Delivery Science and Technology, 2020, 57, 101749.	3.0	21

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91	Insight into l-cysteine-assisted growth of Cu <sub>2</sub> S nanoparticles on exfoliated MoS <sub>2</sub> nanosheets for effective photoreduction removal of Cr(VI). Applied Surface Science, 2020, 518, 146191.	6.1	25
92	Shape-dependant photocatalytic and antimicrobial activity of ZnO nanostructures when conjugated to graphene quantum dots. Journal of Environmental Chemical Engineering, 2020, 8, 103930.	6.7	20
93	Fabrication of palladium and platinum nanocatalysts stabilized by polyvinylpyrrolidone and their use in the hydrogenolysis of methyl orange. Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 991-1005.	1.7	3
94	Characterization of plastic micro particles in the Atlantic Ocean seashore of Cape Town, South Africa and mass spectrometry analysis of pyrolyzate products. Environmental Pollution, 2020, 265, 114859.	7.5	27
95	Constructing defect-rich V <sub>2</sub> O <sub>5</sub> nanorods in catalytic membrane electrode for highly efficient oxidation of cyclohexane. Journal of Catalysis, 2020, 387, 154-162.	6.2	27
96	Tailoring TiO <sub>2</sub> through N doping and incorporation of amorphous carbon nanotubes via a microwave-assisted hydrothermal method. Journal of Environmental Chemical Engineering, 2020, 8, 104082.	6.7	17
97	Curbed of molybdenum oxido-diperoxido complex on ionic liquid body of mesoporous Bipy-PMO-IL as a promising catalyst for selective sulfide oxidation. Journal of Molecular Liquids, 2020, 312, 113388.	4.9	23
98	Inhibition effect of monomeric/polymerized imidazole zwitterions as corrosion inhibitors for carbon steel in acid medium. Journal of Molecular Liquids, 2020, 312, 113436.	4.9	29
99	Monitoring the characteristics and removal of natural organic matter fractions in selected South African water treatment plants. Water Practice and Technology, 2020, 15, 932-946.	2.0	2
100	Investigating the fate of natural organic matter at a drinking water treatment plant in South Africa using optical spectroscopy and chemometric analysis. Water S A, 2020, 46, .	0.4	2
101	Photodegradation of humic acid in aqueous solution using a TiO <sub>2</sub> -carbonaceous hyper-cross-linked polystyrene polymer nanocomposite. International Journal of Environmental Science and Technology, 2019, 16, 1603-1612.	3.5	6
102	Fluoride removal studies using virgin and Ti (IV)-modified Musa paradisiaca (plantain pseudo-stem) carbons. Environmental Science and Pollution Research, 2019, 26, 11565-11578.	5.3	8
103	Adsorption of phenolic compounds by polyacrylonitrile nanofibre membranes: A pretreatment for the removal of hydrophobic bearing compounds from water. Journal of Environmental Chemical Engineering, 2019, 7, 103254.	6.7	27
104	Target quantification of azole antifungals and retrospective screening of other emerging pollutants in wastewater effluent using UHPLC-MS/MS. Environmental Pollution, 2019, 253, 655-666.	7.5	34
105	Visible Light Driven ZnMoO <sub>4</sub> /BiFeWO <sub>6</sub> /rGO Z-Scheme Photocatalyst for the Degradation of Anthraquinonic Dye. Journal of Physical Chemistry C, 2019, 123, 20605-20616.	3.1	69
106	Dual-functional ultrafiltration nano-enabled PSf/PVA membrane for the removal of Congo red dye. Journal of Water Process Engineering, 2019, 31, 100878.	5.6	45
107	Polymeric ion exchanger supported ferric oxide nanoparticles as adsorbents for toxic metal ions from aqueous solutions and acid mine drainage. Journal of Environmental Health Science & Engineering, 2019, 17, 719-730.	3.0	14
108	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. Separation and Purification Technology, 2019, 228, 115793.	7.9	50



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109	Comparative Study of Dendrimer-templated Nitrogen-Platinum Co-doped TiO <sub>2</sub> for the Photocatalytic Degradation of Azo Dyes in Contaminated Water. <i>ChemistrySelect</i> , 2019, 4, 12156-12163.	1.5	8
110	Profiling Bacterial Diversity and Potential Pathogens in Wastewater Treatment Plants Using High-Throughput Sequencing Analysis. <i>Microorganisms</i> , 2019, 7, 506.	3.6	49
111	Diversity and functional profile of bacterial communities at Lancaster acid mine drainage dam, South Africa as revealed by 16S rRNA gene high-throughput sequencing analysis. <i>Extremophiles</i> , 2019, 23, 719-734.	2.3	30
112	Diversity, Co-occurrence and Implications of Fungal Communities in Wastewater Treatment Plants. <i>Scientific Reports</i> , 2019, 9, 14056.	3.3	70
113	Visible light active CdS@TiO <sub>2</sub> core-shell nanostructures for the photodegradation of chlorophenols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 75-83.	3.9	39
114	Recent advances in copper ferrite nanoparticles and nanocomposites synthesis, magnetic properties and application in water treatment: Review. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103179.	6.7	166
115	Superhydrophobic PVDF nanofibre membranes coated with an organic fouling resistant hydrophilic active layer for direct-contact membrane distillation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 363-372.	4.7	44
116	An efficient and stable narrow bandgap carbon dot-brookite composite over other CD-TiO <sub>2</sub> polymorphs in rhodamine B degradation under LED light. <i>Ceramics International</i> , 2019, 45, 14173-14181.	4.8	17
117	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.	6.7	17
118	The occurrence of natural organic matter in South African water treatment plants. <i>Journal of Water Process Engineering</i> , 2019, 31, 100809.	5.6	9
119	Photoelectrocatalytic degradation of sulfamethoxazole on g-C <sub>3</sub> N <sub>4</sub> /BiOI/EC p-n heterojunction photoanode under visible light irradiation. <i>Applied Surface Science</i> , 2019, 483, 506-520.	6.1	90
120	Calibration and field application of a molecularly imprinted membrane-passive sampler for the sampling of indicator polychlorinated biphenyls in selected aquatic environments of South Africa. <i>Water Science and Technology</i> , 2019, 79, 808-819.	2.5	4
121	Quantitative analysis of phenols and PAHs in the Nandoni Dam in Limpopo Province, South Africa: A preliminary study for dam water quality management. <i>Physics and Chemistry of the Earth</i> , 2019, 112, 228-236.	2.9	21
122	Green synthesis of silver nanoparticles using one-pot and microwave-assisted methods and their subsequent embedment on PVDF nanofibre membranes for growth inhibition of mesophilic and thermophilic bacteria. <i>New Journal of Chemistry</i> , 2019, 43, 4168-4180.	2.8	33
123	Development of Electrochemical Nanosensor for the Detection of Malaria Parasite in Clinical Samples. <i>Frontiers in Chemistry</i> , 2019, 7, 89.	3.6	29
124	A review of nanoparticle-enhanced membrane distillation membranes: membrane synthesis and applications in water treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2757-2771.	3.2	104
125	Acid mine drainage pollution remediation using hybrid chelating ion-exchange/HZrO <sub>2</sub> nanocomposite adsorbents. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	6
126	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.	2.5	6



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127	The role of nanoparticles in the performance of nano-enabled composite membranes – A critical scientific perspective. <i>Science of the Total Environment</i> , 2019, 656, 723-731.	8.0	45
128	Critical review of montmorillonite/polymer mixed-matrix filtration membranes: Possibilities and challenges. <i>Applied Clay Science</i> , 2019, 168, 21-30.	5.2	50
129	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.	5.6	30
130	Congo red dye removal by direct membrane distillation using PVDF/PTFE membrane. <i>Separation and Purification Technology</i> , 2019, 211, 578-586.	7.9	75
131	Water recovery from hydrolysed human urine samples via direct contact membrane distillation using PVDF/PTFE membrane. <i>Separation and Purification Technology</i> , 2019, 211, 610-617.	7.9	57
132	Polyethersulfone/ <i>Chromolaena odorata</i> (PES/CO) adsorptive membranes for removal of Congo red from water. <i>Journal of Water Process Engineering</i> , 2019, 30, 100498.	5.6	17
133	Synthesis and application of hematite nanoparticles for acid mine drainage treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1865-1874.	6.7	60
134	PAMAM templated N,Pt co-doped TiO <sub>2</sub> for visible light photodegradation of brilliant black. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15146-15158.	5.3	11
135	Forward osmosis membrane performance during simulated wastewater reclamation: Fouling mechanisms and fouling layer properties. <i>Journal of Water Process Engineering</i> , 2018, 23, 109-118.	5.6	27
136	Polysulfone/N,Pd co-doped TiO <sub>2</sub> composite membranes for photocatalytic dye degradation. <i>Separation and Purification Technology</i> , 2018, 191, 122-133.	7.9	111
137	Removal of lead (II) from aqueous waste using (CD-PCL-TiO <sub>2</sub> ) bio-nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 136-142.	7.5	34
138	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.	5.3	5
139	Fe <sub>3</sub> O <sub>4</sub> -cyclodextrin-Chitosan Bionanocomposite for Arsenic Removal from Aqueous Solution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 467-480.	3.7	25
140	Review: Natural organic matter in aquatic systems – a South African perspective. <i>Water S A</i> , 2018, 44, .	0.4	7
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