Sabelo D Mhlanga

List of Publications by Year in Descending Order

94 papers	1,831 citations	22 h-index	38 g-index
102 ext. papers	2,179 ext. citations	4.3 avg, IF	5.26 L-index

#	Paper	IF	Citations
94	Bio-mediated synthesis of silver nanoparticles via conventional and irradiation-assisted methods and their application for environmental remediation in agriculture **2022**, 219-239		0
93	Green synthesis of carbon nanotubes to address the water-energy-food nexus: A critical review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104736	6.8	17
92	Emerging nanoenhanced membrane-based hybrid processes for complex industrial wastewater treatment **2021**, 633-656		0
91	Fabrication of chlorine nitrogen co-doped carbon nanomaterials by an injection catalytic vapor deposition method. *Materials Research Express*, **2021**, 8, 015007	1.7	1
90	Amorphous carbon nanotube residue modification of solgel-synthesized C-, N-doped TiO2 for photocatalytic applications. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	
89	Poly (ether) sulfone electrospun nanofibrous membranes embedded with graphene oxide quantum dots with antimicrobial activity. *Environmental Science and Pollution Research*, **2020**, 27, 26845-26855	5.1	12
88	Microwave-assisted synthesis of coal fly ash-based zeolites for removal of ammonium from urine.. *RSC Advances*, **2020**, 10, 2416-2427	3.7	15
87	f-MWCNTs/AgNPs-coated superhydrophobic PVDF nanofibre membrane for organic, colloidal, and biofouling mitigation in direct contact membrane distillation. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103654	6.8	16
86	Smart pathways for the photocatalytic degradation of sulfamethoxazole drug using F-Pd co-doped TiO2 nanocomposites. *Applied Catalysis B: Environmental*, **2020**, 267, 118716	21.8	47
85	Synergistic effects of sodium fluoride (NaF) on the crystallinity and band gap of Fe-doped TiO2 developed via microwave-assisted hydrothermal treatment. *Optical Materials*, **2020**, 104, 109844	3.3	7
84	Tailoring TiO2 through N doping and incorporation of amorphous carbon nanotubes via a microwave-assisted hydrothermal method. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104082	6.8	10
83	Analysis and pretreatment of beauty hair salon wastewater using a rapid granular multimedia filtration system. *Journal of Water Process Engineering*, **2020**, 33, 101050	6.7	3
82	Mechanistic pathways for the degradation of SMX drug and floatation of degraded products using F-Pt co-doped TiO photocatalysts.. *RSC Advances*, **2020**, 10, 27662-27675	3.7	3
81	A comparison of the influence of synthesis methods on the photocatalytic activity of nitrogen doped titania-carbon nanotube nanohybrids. *Applied Catalysis A: General*, **2020**, 604, 117776	5.1	2
80	Microwave Irradiation-Assisted Synthesis of Zeolites from Coal Fly Ash: An Optimization Study for a Sustainable and Efficient Production Process. *ACS Omega*, **2020**, 5, 25000-25008	3.9	17
79	Enhanced flux in direct contact membrane distillation using superhydrophobic PVDF nanofibre membranes embedded with organically modified SiO2 nanoparticles. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 2826-2837	3.5	31
78	Removal of Fe and Mn From Polluted Water Sources in Lesotho Using Modified Clays. *Journal of Water Chemistry and Technology*, **2019**, 41, 81-86	0.4	8

77	Superhydrophobic PVDF nanofibre membranes coated with an organic fouling resistant hydrophilic active layer for direct-contact membrane distillation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 575, 363-372	5.1	32
76	Quantitative analysis of phenols and PAHs in the Nandoni Dam in Limpopo Province, South Africa: A preliminary study for dam water quality management. *Physics and Chemistry of the Earth*, **2019**, 112, 228-236	3	15
75	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. *New Journal of Chemistry*, **2019**, 43, 4168-4180	3.6	24
74	One-step synthesis of carbon nanotubes with secondary growth of carbon nanofibers: effect of chlorine, synthesis time and temperature. *Materials Research Express*, **2019**, 6, 115016	1.7	6
73	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	6.8	19
72	Dual-functional ultrafiltration nano-enabled PSf/PVA membrane for the removal of Congo red dye. *Journal of Water Process Engineering*, **2019**, 31, 100878	6.7	30
71	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. *Separation and Purification Technology*, **2019**, 228, 115793	8.3	33
70	A review of nanoparticle-enhanced membrane distillation membranes: membrane synthesis and applications in water treatment. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 2757-2771	3.5	61
69	Structure□Activity Relationships of Er3+ and MWCNT-Modified TiO2: Enhancing the Textural and Optoelectronic Properties of TiO2. *Journal of Physical Chemistry C*, **2019**, 123, 31246-31261	3.8	7
68	Effect of Lantana camara on the Morphology of Polysulfone Membranes for Water Purification. *ChemistrySelect*, **2019**, 4, 559-564	1.8	1
67	Congo red dye removal by direct membrane distillation using PVDF/PTFE membrane. *Separation and Purification Technology*, **2019**, 211, 578-586	8.3	48
66	Water recovery from hydrolysed human urine samples via direct contact membrane distillation using PVDF/PTFE membrane. *Separation and Purification Technology*, **2019**, 211, 610-617	8.3	35
65	Polyethersulfone/Chromolaena odorata (PES/CO) adsorptive membranes for removal of Congo red from water. *Journal of Water Process Engineering*, **2019**, 30, 100498	6.7	11
64	Effect of a titania covering on CNTS as support for the Ru catalysed selective CO methanation. *Applied Catalysis B: Environmental*, **2018**, 232, 492-500	21.8	24
63	Physico-chemical characteristics of some Lesotho□ clays and their assessment for suitability in ceramics production. *Particulate Science and Technology*, **2018**, 36, 117-122	2	7
62	Spectroscopic Determination of Water Salinity in Brackish Surface Water in Nandoni Dam, at Vhembe District, Limpopo Province, South Africa. *Water (Switzerland)*, **2018**, 10, 990	3	25
61	Electrospun chitosan-based nanofibres for removal of phenols from drinking water. *Water S A*, **2018**, 44,	1.3	7
60	Cyclodextrin-Based Nanofibers and Membranes: Fabrication, Properties and Applications **2018**,		2

59	Mechanistic aspects for the removal of Congo red dye from aqueous media through adsorption over N-doped graphene oxide nanoadsorbents prepared from graphite flakes and powders. *Physics and Chemistry of the Earth*, **2018**, 107, 58-70	3	19
58	Facile Synthesis of Nitrogen Doped Graphene Oxide from Graphite Flakes and Powders: A Comparison of Their Surface Chemistry. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 5470-5484	1.3	7
57	Selective CO Methanation Over Ru Supported on Carbon Spheres: The Effect of Carbon Functionalization on the Reverse Water Gas Shift Reaction. *Catalysis Letters*, **2018**, 148, 3502-3513	2.8	3
56	Hydrophilic polysulfone/Lantana camara mixed matrix membranes for the removal of dyes from water. *Surfaces and Interfaces*, **2018**, 13, 216-223	4.1	5
55	The effect of synthetic routes on the physicochemical properties and optical response of N-doped titania□oxidized carbon nanotube nanohybrids. *Materials Today Chemistry*, **2018**, 10, 1-18	6.2	6
54	Carbon-supported photocatalysts for organic dye photodegradation **2018**, 99-138		5
53	Fouling Resistance and Physicochemical Properties of Polyamide Thin-Film Composite Membranes Modified with Functionalized Cyclodextrins. *Advances in Polymer Technology*, **2017**, 36, 249-260	1.9	10
52	Chemical vapour deposition syntheses and characterization of boron-doped hollow carbon spheres. *Diamond and Related Materials*, **2017**, 74, 70-80	3.5	16
51	Thermally and mechanically stable □cyclodextrin/cellulose acetate nanofibers synthesized using an environmentally benign procedure. *International Journal of Smart and Nano Materials*, **2017**, 8, 1-19	3.6	13
50	Determination of toxic metals in drinking water sources in the Chief Albert Luthuli Local Municipality in Mpumalanga, South Africa. *Physics and Chemistry of the Earth*, **2017**, 100, 94-100	3	18
49	Synthesis of Fe-Ag/f-MWCNT/PES nanostructured-hybrid membranes for removal of Cr(VI) from water. *Separation and Purification Technology*, **2017**, 184, 79-87	8.3	34
48	Greener Approach To Prepare Electrospun Antibacterial □Cyclodextrin/Cellulose Acetate Nanofibers for Removal of Bacteria from Water. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 153-160	8.3	42
47	Chitosan-Based Nanocomposite Beads for Drinking Water Production. *IOP Conference Series: Materials Science and Engineering*, **2017**, 195, 012004	0.4	6
46	Environmentally benign chitosan-based nanofibres for potential use in water treatment. *Cogent Chemistry*, **2017**, 3, 1357865	2.5	16
45	Polyethyleneimine-carbon nanotube polymeric nanocomposite adsorbents for the removal of Cr 6+ from water. *Physics and Chemistry of the Earth*, **2017**, 100, 236-246	3	24
44	Chitosan-based nanocomposites for de-nitrification of water. *Physics and Chemistry of the Earth*, **2017**, 100, 212-224	3	12
43	Prospects and State-of-the-Art of Carbon Nanotube Membranes in Desalination Processes **2017**, 305-339		
42	The synthesis of carbon nanomaterials using chlorinated hydrocarbons over a Fe-Co/CaCO3 catalyst. *South African Journal of Chemistry*, **2016**, 69,	1.8	12

41	Antimicrobial Properties of Chitosan-Alumina/f-MWCNT Nanocomposites. *Journal of Nanotechnology*, **2016**, 2016, 1-8	3.5	12
40	Synthesis of robust flexible polyethersulfone ultrafiltration membranes supported on non-woven fabrics for separation of NOM from water. *Water S A*, **2016**, 42, 621	1.3	5
39	Gallium nitride nanostructures: Synthesis, characterization and applications. *Journal of Crystal Growth*, **2016**, 444, 55-72	1.6	15
38	UV-assisted reduction of in situ electrospun antibacterial chitosan-based nanofibres for removal of bacteria from water. *RSC Advances*, **2016**, 6, 95936-95943	3.7	20
37	Adsorption of aspirin and paracetamol from aqueous solution using Fe/N-CNT/Ecyclodextrin nanocomopsites synthesized via a benign microwave assisted method. *Journal of Environmental Chemical Engineering*, **2015**, 3, 2619-2630	6.8	43
36	Optimization of Commercial Antibiotic Agents Using Gold Nanoparticles Against Toxigenic Aspergillus spp. *Materials Today: Proceedings*, **2015**, 2, 4136-4148	1.4	4
35	Evaluation of Nanofiber Mats Decorated with Silver Nanoparticles for Organic Fouling Control. *Materials Today: Proceedings*, **2015**, 2, 4158-4166	1.4	4
34	Kinetics, Equilibrium, and Thermodynamics of the Sorption of Bisphenol A onto N-CNTs-ECyclodextrin and Fe/N-CNTs-ECyclodextrin Nanocomposites. *Journal of Nanomaterials*, **2015**, 2015, 1-13	3.2	4
33	UV-assisted synthesis of indium nitride nano and microstructures. *Journal of Materials Chemistry A*, **2015**, 3, 5962-5970	13	10
32	Observation of the structural, optical and magnetic properties during the transformation from hexagonal NiS nano-compounds to cubic NiO nanostructures due to thermal oxidation. *Journal of Alloys and Compounds*, **2015**, 629, 131-139	5.7	13
31	Development of functionalized doped carbon nanotube/polysulfone nanofiltration membranes for fouling control. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	13
30	Microwave-induced synthesis of Ecyclodextrin/N-doped carbon nanotube polyurethane nanocomposites for water purification. *Physics and Chemistry of the Earth*, **2014**, 67-69, 105-110	3	11
29	Synthesis of PVDF ultrafiltration membranes supported on polyester fabrics for separation of organic matter from water. *IOP Conference Series: Materials Science and Engineering*, **2014**, 64, 012036	0.4	3
28	Au-controlled enhancement of photoluminescence of NiS nanostructures synthesized via a microwave-assisted hydrothermal technique. *Journal of Luminescence*, **2014**, 155, 305-310	3.8	5
27	Advances in Nanotechnologies for Point-of-Use and Point-of-Entry Water Purification **2014**, 229-267		
26	Development of antifouling polyamide thin-film composite membranes modified with amino-cyclodextrins and diethylamino-cyclodextrins for water treatment. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	12
25	Efficient preparation of greener N-doped carbon nanotube composites for water treatment by the microwave polyol method. *Environmental Chemistry Letters*, **2013**, 11, 353-358	13.3	4
24	Size-dependent and intra-band photoluminescence of NiS2 nano-alloys synthesized by microwave assisted hydrothermal technique. *Journal of Alloys and Compounds*, **2013**, 552, 345-350	5.7	18

23	A nitrogen-doped carbon nanotube enhanced polyethersulfone membrane system for water treatment. *Physics and Chemistry of the Earth*, **2013**, 66, 148-156	3	38
22	GaN nanostructures-poly(vinyl alcohol) composite based hydrostatic pressure sensor device. *Materials Chemistry and Physics*, **2013**, 143, 367-372	4.4	4
21	Production of N-doped carbon nanotubes using □and □cyclodextrins: The effect of solubility. *Materials Letters*, **2013**, 100, 66-69	3.3	5
20	A Facile Procedure to Synthesize a Three-Component □Cyclodextrin Polyurethane Nanocomposite Matrix Containing Ag Decorated N-CNTs for Water Treatment. *Nanoscience and Nanotechnology Letters*, **2013**, 5, 341-348	0.8	9
19	Synthesis and study of carbon/TiO2 and carbon/TiO2 core□shell micro-/nanospheres with increased density. *Journal of Materials Research*, **2013**, 28, 440-448	2.5	5
18	Application of gallium nitride nanostructures and nitrogen doped carbon spheres as supports for the hydrogenation of cinnamaldehyde. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 4990-5	1.3	2
17	Synthesis and Application of Novel Functionalized Nanostructured Membranes Incorporating N-doped CNT Supported Metal Nanoparticles in Water Treatment. *Procedia Engineering*, **2012**, 44, 1496-1501		4
16	Composites of polyvinyl alcohol and carbon (coils, undoped and nitrogen doped multiwalled carbon nanotubes) as ethanol, methanol and toluene vapor sensors. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 10211-8	1.3	17
15	AC-conductance and capacitance measurements for ethanol vapor detection using carbon nanotube-polyvinyl alcohol composite based devices. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2384-8	1.3	9
14	Nitrogen doping of CVD multiwalled carbon nanotubes: Observation of a large g-factor shift. *Materials Chemistry and Physics*, **2011**, 130, 1182-1186	4.4	15
13	Nitrogen-doped carbon nanotubes as a metal catalyst support. *Applied Nanoscience (Switzerland)*, **2011**, 1, 67-77	3.3	123
12	Synthesis and purification of bimetallic catalysed carbon nanotubes in a horizontal CVD reactor. *Journal of Experimental Nanoscience*, **2011**, 6, 248-262	1.9	20
11	A novel Ca3(PO4)2□CaCO3 support mixture for the CVD synthesis of roughened MWCNT-carbon fibres. *Journal of Experimental Nanoscience*, **2011**, 6, 49-63	1.9	4
10	A review of shaped carbon nanomaterials. *South African Journal of Science*, **2011**, 107,	1.3	51
9	Controlled syntheses of carbon spheres in a swirled floating catalytic chemical vapour deposition vertical reactor. *Journal of Experimental Nanoscience*, **2010**, 5, 40-51	1.9	12
8	A facile procedure to shorten multiwalled carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 5027-35	1.3	3
7	The Use of CaCO3 and Ca3(PO4)2 as Supports for Fe-Co Catalysts for Carbon Nanotube Synthesis: A Comparative Study. *Ceramic Engineering and Science Proceedings*, **2010**, 101-114	0.1	
6	Carbon spheres. *Materials Science and Engineering Reports*, **2010**, 70, 1-28	30.9	246

5	Boron-doped carbon microspheres. *Materials Chemistry and Physics*, **2009**, 114, 973-977	4.4	22
4	Carbon Nanotube Docking Stations: A New Concept in Catalysis. *Catalysis Letters*, **2009**, 129, 39-45	2.8	55
3	Iron–cobalt catalysts synthesized by a reverse micelle impregnation method for controlled growth of carbon nanotubes. *Diamond and Related Materials*, **2008**, 17, 1489-1493	3.5	20
2	The use of organometallic transition metal complexes in the synthesis of shaped carbon nanomaterials. *Journal of Organometallic Chemistry*, **2008**, 693, 2205-2222	2.3	67
1	Removal of organic contaminants from water using nanosponge cyclodextrin polyurethanes. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 382-388	3.5	76