

Sabelo D Mhlanga

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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	Carbon spheres. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 1-28	30.9	246
93	Nitrogen-doped carbon nanotubes as a metal catalyst support. <i>Applied Nanoscience (Switzerland)</i> , 2011 , 1, 67-77	3.3	123
92	Removal of organic contaminants from water using nanosponge cyclodextrin polyurethanes. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 382-388	3.5	76
91	The use of organometallic transition metal complexes in the synthesis of shaped carbon nanomaterials. <i>Journal of Organometallic Chemistry</i> , 2008 , 693, 2205-2222	2.3	67
90	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	3.5	61
89	Carbon Nanotube Docking Stations: A New Concept in Catalysis. <i>Catalysis Letters</i> , 2009 , 129, 39-45	2.8	55
88	A review of shaped carbon nanomaterials. <i>South African Journal of Science</i> , 2011 , 107,	1.3	51
87	Congo red dye removal by direct membrane distillation using PVDF/PTFE membrane. <i>Separation and Purification Technology</i> , 2019 , 211, 578-586	8.3	48
86	Smart pathways for the photocatalytic degradation of sulfamethoxazole drug using F-Pd co-doped TiO ₂ nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118716	21.8	47
85	Adsorption of aspirin and paracetamol from aqueous solution using Fe/N-CNT/ β -cyclodextrin nanocomposites synthesized via a benign microwave assisted method. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2619-2630	6.8	43
84	Greener Approach To Prepare Electrospun Antibacterial β -Cyclodextrin/Cellulose Acetate Nanofibers for Removal of Bacteria from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 153-160	8.3	42
83	A nitrogen-doped carbon nanotube enhanced polyethersulfone membrane system for water treatment. <i>Physics and Chemistry of the Earth</i> , 2013 , 66, 148-156	3	38
82	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	8.3	35
81	Synthesis of Fe-Ag/f-MWCNT/PES nanostructured-hybrid membranes for removal of Cr(VI) from water. <i>Separation and Purification Technology</i> , 2017 , 184, 79-87	8.3	34
80	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. <i>Separation and Purification Technology</i> , 2019 , 228, 115793	8.3	33
79	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	5.1	32
78	Enhanced flux in direct contact membrane distillation using superhydrophobic PVDF nanofibre membranes embedded with organically modified SiO ₂ nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2826-2837	3.5	31

77	Dual-functional ultrafiltration nano-enabled PSf/PVA membrane for the removal of Congo red dye. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100878	6.7	30
76	Spectroscopic Determination of Water Salinity in Brackish Surface Water in Nandoni Dam, at Vhembe District, Limpopo Province, South Africa. <i>Water (Switzerland)</i> , 2018 , 10, 990	3	25
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. <i>New Journal of Chemistry</i> , 2019 , 43, 4168-4180	3.6	24
74	Effect of a titania covering on CNTs as support for the Ru catalysed selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 492-500	21.8	24
73	Polyethyleneimine-carbon nanotube polymeric nanocomposite adsorbents for the removal of Cr 6+ from water. <i>Physics and Chemistry of the Earth</i> , 2017 , 100, 236-246	3	24
72	Boron-doped carbon microspheres. <i>Materials Chemistry and Physics</i> , 2009 , 114, 973-977	4.4	22
71	Synthesis and purification of bimetallic catalysed carbon nanotubes in a horizontal CVD reactor. <i>Journal of Experimental Nanoscience</i> , 2011 , 6, 248-262	1.9	20
70	Iron/cobalt catalysts synthesized by a reverse micelle impregnation method for controlled growth of carbon nanotubes. <i>Diamond and Related Materials</i> , 2008 , 17, 1489-1493	3.5	20
69	UV-assisted reduction of in situ electrospun antibacterial chitosan-based nanofibres for removal of bacteria from water. <i>RSC Advances</i> , 2016 , 6, 95936-95943	3.7	20
68	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. <i>Physics and Chemistry of the Earth</i> , 2018 , 107, 58-70	3	19
67	Adsorption of phenolic compounds by polyacrylonitrile nanofibre membranes: A pretreatment for the removal of hydrophobic bearing compounds from water. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103254	6.8	19
66	Determination of toxic metals in drinking water sources in the Chief Albert Luthuli Local Municipality in Mpumalanga, South Africa. <i>Physics and Chemistry of the Earth</i> , 2017 , 100, 94-100	3	18
65	Size-dependent and intra-band photoluminescence of NiS ₂ nano-alloys synthesized by microwave assisted hydrothermal technique. <i>Journal of Alloys and Compounds</i> , 2013 , 552, 345-350	5.7	18
64	Composites of polyvinyl alcohol and carbon (coils, undoped and nitrogen doped multiwalled carbon nanotubes) as ethanol, methanol and toluene vapor sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 10211-8	1.3	17
63	Microwave Irradiation-Assisted Synthesis of Zeolites from Coal Fly Ash: An Optimization Study for a Sustainable and Efficient Production Process. <i>ACS Omega</i> , 2020 , 5, 25000-25008	3.9	17
62	Green synthesis of carbon nanotubes to address the water-energy-food nexus: A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104736	6.8	17
61	Chemical vapour deposition syntheses and characterization of boron-doped hollow carbon spheres. <i>Diamond and Related Materials</i> , 2017 , 74, 70-80	3.5	16
60	f-MWCNTs/AgNPs-coated superhydrophobic PVDF nanofibre membrane for organic, colloidal, and biofouling mitigation in direct contact membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103654	6.8	16

59	Environmentally benign chitosan-based nanofibres for potential use in water treatment. <i>Cogent Chemistry</i> , 2017 , 3, 1357865	2.5	16
58	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	3.236	15
57	Microwave-assisted synthesis of coal fly ash-based zeolites for removal of ammonium from urine.. <i>RSC Advances</i> , 2020 , 10, 2416-2427	3.7	15
56	Nitrogen doping of CVD multiwalled carbon nanotubes: Observation of a large g-factor shift. <i>Materials Chemistry and Physics</i> , 2011 , 130, 1182-1186	4.4	15
55	Gallium nitride nanostructures: Synthesis, characterization and applications. <i>Journal of Crystal Growth</i> , 2016 , 444, 55-72	1.6	15
54	Thermally and mechanically stable β -cyclodextrin/cellulose acetate nanofibers synthesized using an environmentally benign procedure. <i>International Journal of Smart and Nano Materials</i> , 2017 , 8, 1-19	3.6	13
53	Observation of the structural, optical and magnetic properties during the transformation from hexagonal NiS nano-compounds to cubic NiO nanostructures due to thermal oxidation. <i>Journal of Alloys and Compounds</i> , 2015 , 629, 131-139	5.7	13
52	Development of functionalized doped carbon nanotube/polysulfone nanofiltration membranes for fouling control. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	13
51	Poly (ether) sulfone electrospun nanofibrous membranes embedded with graphene oxide quantum dots with antimicrobial activity. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 26845-26855	5.1	12
50	Chitosan-based nanocomposites for de-nitrification of water. <i>Physics and Chemistry of the Earth</i> , 2017 , 100, 212-224	3	12
49	Development of antifouling polyamide thin-film composite membranes modified with amino-cyclodextrins and diethylamino-cyclodextrins for water treatment. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	12
48	Controlled syntheses of carbon spheres in a swirled floating catalytic chemical vapour deposition vertical reactor. <i>Journal of Experimental Nanoscience</i> , 2010 , 5, 40-51	1.9	12
47	The synthesis of carbon nanomaterials using chlorinated hydrocarbons over a Fe-Co/CaCO ₃ catalyst. <i>South African Journal of Chemistry</i> , 2016 , 69,	1.8	12
46	Antimicrobial Properties of Chitosan-Alumina/f-MWCNT Nanocomposites. <i>Journal of Nanotechnology</i> , 2016 , 2016, 1-8	3.5	12
45	Microwave-induced synthesis of β -cyclodextrin/N-doped carbon nanotube polyurethane nanocomposites for water purification. <i>Physics and Chemistry of the Earth</i> , 2014 , 67-69, 105-110	3	11
44	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	6.7	11
43	Fouling Resistance and Physicochemical Properties of Polyamide Thin-Film Composite Membranes Modified with Functionalized Cyclodextrins. <i>Advances in Polymer Technology</i> , 2017 , 36, 249-260	1.9	10
42	UV-assisted synthesis of indium nitride nano and microstructures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5962-5970	13	10

41	Tailoring TiO ₂ through N doping and incorporation of amorphous carbon nanotubes via a microwave-assisted hydrothermal method. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104082	6.8	10
40	A Facile Procedure to Synthesize a Three-Component β -Cyclodextrin Polyurethane Nanocomposite Matrix Containing Ag Decorated N-CNTs for Water Treatment. <i>Nanoscience and Nanotechnology Letters</i> , 2013 , 5, 341-348	0.8	9
39	AC-conductance and capacitance measurements for ethanol vapor detection using carbon nanotube-polyvinyl alcohol composite based devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2384-8	1.3	9
38	Removal of Fe and Mn From Polluted Water Sources in Lesotho Using Modified Clays. <i>Journal of Water Chemistry and Technology</i> , 2019 , 41, 81-86	0.4	8
37	Synergistic effects of sodium fluoride (NaF) on the crystallinity and band gap of Fe-doped TiO ₂ developed via microwave-assisted hydrothermal treatment. <i>Optical Materials</i> , 2020 , 104, 109844	3.3	7
36	Physico-chemical characteristics of some Lesotho clays and their assessment for suitability in ceramics production. <i>Particulate Science and Technology</i> , 2018 , 36, 117-122	2	7
35	Electrospun chitosan-based nanofibres for removal of phenols from drinking water. <i>Water S A</i> , 2018 , 44,	1.3	7
34	Facile Synthesis of Nitrogen Doped Graphene Oxide from Graphite Flakes and Powders: A Comparison of Their Surface Chemistry. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 5470-5484	1.3	7
33	Structure-Activity Relationships of Er ³⁺ and MWCNT-Modified TiO ₂ : Enhancing the Textural and Optoelectronic Properties of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31246-31261	3.8	7
32	One-step synthesis of carbon nanotubes with secondary growth of carbon nanofibers: effect of chlorine, synthesis time and temperature. <i>Materials Research Express</i> , 2019 , 6, 115016	1.7	6
31	Chitosan-Based Nanocomposite Beads for Drinking Water Production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 195, 012004	0.4	6
30	The effect of synthetic routes on the physicochemical properties and optical response of N-doped titania-oxidized carbon nanotube nanohybrids. <i>Materials Today Chemistry</i> , 2018 , 10, 1-18	6.2	6
29	Au-controlled enhancement of photoluminescence of NiS nanostructures synthesized via a microwave-assisted hydrothermal technique. <i>Journal of Luminescence</i> , 2014 , 155, 305-310	3.8	5
28	Production of N-doped carbon nanotubes using β - and γ -cyclodextrins: The effect of solubility. <i>Materials Letters</i> , 2013 , 100, 66-69	3.3	5
27	Synthesis and study of carbon/TiO ₂ and carbon/TiO ₂ core-shell micro-/nanospheres with increased density. <i>Journal of Materials Research</i> , 2013 , 28, 440-448	2.5	5
26	Synthesis of robust flexible polyethersulfone ultrafiltration membranes supported on non-woven fabrics for separation of NOM from water. <i>Water S A</i> , 2016 , 42, 621	1.3	5
25	Hydrophilic polysulfone/Lantana camara mixed matrix membranes for the removal of dyes from water. <i>Surfaces and Interfaces</i> , 2018 , 13, 216-223	4.1	5
24	Carbon-supported photocatalysts for organic dye photodegradation 2018 , 99-138		5

23	Optimization of Commercial Antibiotic Agents Using Gold Nanoparticles Against Toxicogenic <i>Aspergillus</i> spp. <i>Materials Today: Proceedings</i> , 2015 , 2, 4136-4148	1.4	4
22	Evaluation of Nanofiber Mats Decorated with Silver Nanoparticles for Organic Fouling Control. <i>Materials Today: Proceedings</i> , 2015 , 2, 4158-4166	1.4	4
21	Efficient preparation of greener N-doped carbon nanotube composites for water treatment by the microwave polyol method. <i>Environmental Chemistry Letters</i> , 2013 , 11, 353-358	13.3	4
20	GaN nanostructures-poly(vinyl alcohol) composite based hydrostatic pressure sensor device. <i>Materials Chemistry and Physics</i> , 2013 , 143, 367-372	4.4	4
19	Kinetics, Equilibrium, and Thermodynamics of the Sorption of Bisphenol A onto N-CNTs- β -Cyclodextrin and Fe/N-CNTs- β -Cyclodextrin Nanocomposites. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-13	3.2	4
18	Synthesis and Application of Novel Functionalized Nanostructured Membranes Incorporating N-doped CNT Supported Metal Nanoparticles in Water Treatment. <i>Procedia Engineering</i> , 2012 , 44, 1496-1501		4
17	A novel Ca ₃ (PO ₄) ₂ /CaCO ₃ support mixture for the CVD synthesis of roughened MWCNT-carbon fibres. <i>Journal of Experimental Nanoscience</i> , 2011 , 6, 49-63	1.9	4
16	Synthesis of PVDF ultrafiltration membranes supported on polyester fabrics for separation of organic matter from water. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 64, 012036	0.4	3
15	A facile procedure to shorten multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5027-35	1.3	3
14	Analysis and pretreatment of beauty hair salon wastewater using a rapid granular multimedia filtration system. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101050	6.7	3
13	Mechanistic pathways for the degradation of SMX drug and floatation of degraded products using F-Pt co-doped TiO photocatalysts.. <i>RSC Advances</i> , 2020 , 10, 27662-27675	3.7	3
12	Selective CO Methanation Over Ru Supported on Carbon Spheres: The Effect of Carbon Functionalization on the Reverse Water Gas Shift Reaction. <i>Catalysis Letters</i> , 2018 , 148, 3502-3513	2.8	3
11	Cyclodextrin-Based Nanofibers and Membranes: Fabrication, Properties and Applications 2018 ,		2
10	Application of gallium nitride nanostructures and nitrogen doped carbon spheres as supports for the hydrogenation of cinnamaldehyde. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4990-5	1.3	2
9	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	5.1	2
8	Effect of Lantana camara on the Morphology of Polysulfone Membranes for Water Purification. <i>ChemistrySelect</i> , 2019 , 4, 559-564	1.8	1
7	Fabrication of chlorine nitrogen co-doped carbon nanomaterials by an injection catalytic vapor deposition method. <i>Materials Research Express</i> , 2021 , 8, 015007	1.7	1
6	Bio-mediated synthesis of silver nanoparticles via conventional and irradiation-assisted methods and their application for environmental remediation in agriculture 2022 , 219-239		0

- 5 Emerging nanoenhanced membrane-based hybrid processes for complex industrial wastewater treatment **2021**, 633-656 0
- 4 Amorphous carbon nanotube residue modification of solgel-synthesized C-, N-doped TiO₂ for photocatalytic applications. *Journal of Nanoparticle Research*, **2020**, 22, 1 2-3
- 3 Prospects and State-of-the-Art of Carbon Nanotube Membranes in Desalination Processes **2017**, 305-339
- 2 Advances in Nanotechnologies for Point-of-Use and Point-of-Entry Water Purification **2014**, 229-267
- 1 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