Sandile Songca

List of Publications by Year
in descending order

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63 papers	1,710 citations	361296 20 h-index	302012 39 g-index
65 all docs	65 docs citations	65 times ranked	2410 citing authors

#	Article	IF	Citations
1	Photophysical and photochemical properties of potential porphyrin and chlorin photosensitizers for PDT. Journal of Photochemistry and Photobiology B: Biology, 1996, 33, 171-180.	1.7	208
2	Application of Porphyrins in Antibacterial Photodynamic Therapy. Molecules, 2019, 24, 2456.	1.7	172
3	Green synthesis of silver nanoparticles using cellulose extracted from an aquatic weed; water hyacinth. Carbohydrate Polymers, 2013, 98, 290-294.	5.1	132
4	Completely green synthesis of dextrose reduced silver nanoparticles, its antimicrobial and sensing properties. Carbohydrate Polymers, 2014, 106, 469-474.	5.1	105
5	Evolution of ternary Iâ€“IIIâ€“VI QDs: Synthesis, characterization and application. Nano Structures Nano Objects, 2017, 12, 46-56.	1.9	75
6	Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles. Journal of Molecular Liquids, 2016, 213, 75-81.	2.3	58
7	Photobactericidal materials based on porphyrins and phthalocyanines. Journal of Materials Chemistry, 1993, 3, 323.	6.7	55
8	Biopolymers â€“ Application in Nanoscience and Nanotechnology. , 0, , .		53
9	A facile completely â€˜greenâ€™ size tunable synthesis of maltose-reduced silver nanoparticles without the use of any accelerator. Colloids and Surfaces B: Biointerfaces, 2013, 102, 718-723.	2.5	52
10	Microwave irradiation synthesis of silver nanoparticles using cellulose from Eichhornia crassipes plant shoot. Materials Letters, 2016, 185, 576-579.	1.3	47
11	Applications of Antimicrobial Photodynamic Therapy against Bacterial Biofilms. International Journal of Molecular Sciences, 2022, 23, 3209.	1.8	44
12	Applications of functionalized nanomaterials in photodynamic therapy. Biophysical Reviews, 2018, 10, 49-67.	1.5	40
13	Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. Pure and Applied Chemistry, 2016, 88, 71-81.	0.9	33
14	A novel treatment for metastatic lymph nodes using lymphatic delivery and photothermal therapy. Scientific Reports, 2017, 7, 45459.	1.6	32
15	Photodynamic therapy evaluation of methoxypolyethyleneglycol-thiol-SPIONs-gold-meso-tetrakis(4-hydroxyphenyl)porphyrin conjugate against breast cancer cells. Materials Science and Engineering C, 2018, 92, 737-744.	3.8	32
16	Green controlled synthesis of monodispersed, stable and smaller sized starch-capped silver nanoparticles. Materials Letters, 2013, 106, 332-336.	1.3	31
17	Facile synthesis of transparent and fluorescent epoxyâ€“CdSeâ€“CdSâ€“ZnS coreâ€“multi shell polymer nanocomposites. New Journal of Chemistry, 2014, 38, 155-162.	1.4	29
18	Prevalence and molecular analysis of multidrug-resistant Acinetobacter baumannii in the extra-hospital environment in Mthatha, South Africa. Brazilian Journal of Infectious Diseases, 2019, 23, 371-380.	0.3	29

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19	Cytotoxicity, fluorescence tagging and gene-expression study of CuInS/ZnS QDS - meso (hydroxyphenyl) porphyrin conjugate against human monocytic leukemia cells. Scientific Reports, 2020, 10, 4936.	1.6	29
20	Synthesis of Silver Nanoparticles Using Buchu Plant Extracts and Their Analgesic Properties. Molecules, 2016, 21, 774.	1.7	27
21	Encapsulation of Gold Nanorods with Porphyrins for the Potential Treatment of Cancer and Bacterial Diseases: A Critical Review. Bioinorganic Chemistry and Applications, 2019, 2019, 1-27.	1.8	24
22	Volatile constituents and biological activities of the leaf and root of Echinacea species from South Africa. Saudi Pharmaceutical Journal, 2017, 25, 381-386.	1.2	22
23	Synthesis of meso-tetra-(4-sulfonatophenyl) porphyrin (TPPS₄) â€“ CuInS/ZnS quantum dots conjugate as an improved photosensitizer . International Journal of Nanomedicine, 2019, Volume 14, 7065-7078.	3.3	21
24	Synthesis, structural and fluorescence optimization of ternary Cuâ€“Inâ€“S quantum dots passivated with ZnS. Journal of Luminescence, 2020, 227, 117541.	1.5	19
25	Chemical composition and anti-inflammatory activities of the essential oils fromAcacia mearnsiide Wild. Natural Product Research, 2015, 29, 1184-1188.	1.0	18
26	Simple green synthesis of amino acid functionalised CdTe/CdSe/ZnSe core-multi shell with improved cell viability for cellular imaging. Materials Letters, 2017, 189, 168-171.	1.3	18
27	Synthesis of fluorescent CuInS2/ZnS quantum dotsâ€”porphyrin conjugates for photodynamic therapy. MRS Communications, 2018, 8, 398-403.	0.8	17
28	Sugarcane Bagasse and Cellulose Polymer Composites. , 2018, , .		17
29	Effect of temperature on the optical and structural properties of hexadecylamine capped ZnS nanoparticles using Zinc(II) N-ethyl-N-phenyldithiocarbamate as single source precursor. Materials Research Bulletin, 2012, 47, 4445-4451.	2.7	16
30	Green synthesis of yellow emitting PMMAâ€“CdSe/ZnS quantum dots nanophosphors. Materials Science in Semiconductor Processing, 2015, 39, 587-595.	1.9	16
31	An analysis of human exposure to trace elements from deliberate soil ingestion and associated health risks. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 55-63.	1.8	15
32	Molecular Detection of Carbapenemase-Encoding Genes in Multidrug-Resistant Acinetobacter baumannii Clinical Isolates in South Africa. International Journal of Microbiology, 2020, 2020, 1-10.	0.9	15
33	Anti-inflammatory activity of the essential oils of Cymbopogon validus (Stapf) Stapf ex Burtt Davy from Eastern Cape, South Africa. Asian Pacific Journal of Tropical Medicine, 2016, 9, 426-431.	0.4	14
34	Singlet oxygen generation potential of thiolated methoxy-polyethyleneglycol encapsulated superparamagnetic iron oxide nanoparticles-gold core-shell meso-5, 10, 15, 20-tetrakis (4-hydroxyphenyl) porphyrin. Materials Letters, 2017, 199, 37-40.	1.3	14
35	Applications of Nanozymology in the Detection and Identification of Viral, Bacterial and Fungal Pathogens. International Journal of Molecular Sciences, 2022, 23, 4638.	1.8	13
36	Solubilization of meso-Tetraphenylporphyrin Photosensitizers by Substitution with Fluorine and with 2,3-Dihydroxy-1-propyloxy Groups. Journal of Pharmacy and Pharmacology, 2010, 52, 1361-1367.	1.2	12

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37	In-vitro activity and tissue distribution of new fluorinated meso-tetrahydroxyphenylporphyrin photosensitizers. Journal of Pharmacy and Pharmacology, 2010, 53, 1469-1475.	1.2	12
38	In vitro antimicrobial photodynamic inactivation of multidrug-resistant Acinetobacter baumannii biofilm using Protoporphyrin IX and Methylene blue. Photodiagnosis and Photodynamic Therapy, 2020, 30, 101752.	1.3	12
39	SPIONs as proton pump and electrostatic contributor for the simultaneous precipitation of protonated neutral red, Ag+ and chloride ion from aqueous solution. Separation and Purification Technology, 2017, 187, 374-379.	3.9	10
40	Biosynthesis of silver nanoparticles from Acacia mearnsii De Wild stem bark and its antinociceptive properties. Green Chemistry Letters and Reviews, 2017, 10, 59-68.	2.1	9
41	Green synthesis of MPA-capped CdTe/CdSe quantum dots at different pH and its effect on the cell viability of fibroblast histiocytoma cells. Materials Letters, 2017, 209, 299-302.	1.3	9
42	Green synthesis of amino acid functionalized CuInS/ZnS- mTHPP conjugate for biolabeling application. Dyes and Pigments, 2021, 185, 108960.	2.0	9
43	A simple one-pot environmentally benign synthesis of ascorbic acid-capped CdSe nanoparticles at room temperature. Materials Letters, 2012, 75, 84-86.	1.3	8
44	Neutral red separation property of ultrasmall-gluconic acid capped superparamagnetic iron oxide nanoclusters coprecipitated with goethite and hematite. Separation and Purification Technology, 2018, 192, 475-482.	3.9	8
45	The Therapeutic Effect of Second Near-Infrared Absorbing Gold Nanorods on Metastatic Lymph Nodes via Lymphatic Delivery System. Pharmaceutics, 2021, 13, 1359.	2.0	8
46	A facile non-organometallic synthesis of hexadecylamine-capped ZnSe nanoparticles. Materials Science in Semiconductor Processing, 2014, 27, 427-432.	1.9	7
47	Effect of synthetic conditions on the crystallinity, porosity and magnetic properties of gluconic acid capped iron oxide nanoparticles. Nano Structures Nano Objects, 2020, 23, 100480.	1.9	7
48	Chemical and biological studies of <i>Lobelia flaccida</i> (C. Presl) A.DC leaf: a medicinal plant used by traditional healers in Eastern Cape, South Africa. Tropical Journal of Pharmaceutical Research, 2016, 15, 1715.	0.2	5
49	Comparison of alkali treated sugarcane bagasse and softwood cellulose/polypropylene composites. Plastics, Rubber and Composites, 2019, 48, 401-409.	0.9	5
50	Evolution of gluconic acid capped paramagnetic iron oxide nanoparticles. Nano Structures Nano Objects, 2019, 20, 100389.	1.9	5
51	Phylogenetic analysis of carbapenem-resistant Acinetobacter baumannii isolated from different sources using Multilocus Sequence Typing Scheme. Infection, Genetics and Evolution, 2021, 96, 105132.	1.0	5
52	Semi-synthesis of nitrogen derivatives of oleanolic acid and effect on breast carcinoma MCF-7 cells. Anticancer Research, 2014, 34, 4135-9.	0.5	5
53	Chemical analysis and biological potential of <i>Valerian root</i> as used by herbal practitioners in the Eastern Cape Province, South Africa. Tropical Journal of Obstetrics and Gynaecology, 2016, 13, 114.	0.3	4
54	Biopolymer-mediated Green Synthesis of Noble Metal Nanostructures. , 0, , .		4

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55	Synthesis of NIR-II Absorbing Gelatin Stabilized Gold Nanorods and Its Photothermal Therapy Application against Fibroblast Histiocytoma Cells. Pharmaceuticals, 2021, 14, 1137.	1.7	4
56	Size tunable synthesis of monodispersed hexadecylamine-capped CdSe nanostructures. Materials Letters, 2014, 123, 165-168.	1.3	3
57	Optical and cytotoxicity properties of water soluble type II CdTe/CdSe nanoparticles synthesised via a green method. Materials Research Society Symposia Proceedings, 2015, 1748, 69.	0.1	3
58	Size tunable synthesis of HDA and TOPO capped ZnSe nanoparticles via a facile aqueous/thermolysis hybrid solution route. Journal of Materials Science: Materials in Electronics, 2016, 27, 3880-3887.	1.1	3
59	A Facile One-Pot Synthesis of MSe (M = Cd or Zn) Nanoparticles Using Biopolymer as Passivating Agent. , 2012, , .		2
60	Application of iron (III) meso-tetrakis(4-hydroxyphenyl)porphyrin-methylene blue strips for the detection and quantification of H2O2 in aqueous and pharmaceutical fluids. MRS Communications, 2019, 9, 398-405.	0.8	2
61	Facile Green Synthesis and Characterization of Water Soluble Superparamagnetic Iron Oxide-Gold Porphyrin Conjugate for Improved Photodynamic Therapy. Minerals, Metals and Materials Series, 2017, , 23-27.	0.3	0
62	Non-distorted visible light-absorbing thiol-PEGylated gold-coated superparamagnetic iron oxide nanoparticlesâ€“porphyrin conjugates and their inhibitory effects against nosocomial pathogens. MRS Communications, 2019, 9, 1335-1342.	0.8	0
63	A novel lymphatic treatment method for metastatic lymph node using photothermal therapy with controlled temperature cooling system. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G0600304.	0.0	0