Mj Moloto

List of Publications by Year
in descending order

76 papers	1,144 citations	393982 19 h-index	476904 29 g-index
76 all docs	76 docs citations	76 times ranked	1629 citing authors

#	Article	IF	Citations
1	The Effect of Solvents, Acetone, Water, and Ethanol, on the Morphological and Optical Properties of ZnO Nanoparticles Prepared by Microwave. Journal of Nanotechnology, 2012, 2012, 1-6.	1.5	66
2	Properties of electrospun CdS and CdSe filled poly(methyl methacrylate) (PMMA) nanofibres. Materials Research Bulletin, 2011, 46, 569-575.	2.7	62
3	Synthesis of hexadecylamine capped nanoparticles using group 12 complexes of N-alkyl-N-phenyl dithiocarbamate as single-source precursors. Polyhedron, 2011, 30, 246-252.	1.0	62
4	Synthesis and characterisation of some N-alkyl/aryl and N,Nâ€²-dialkyl/aryl thiourea cadmium(II) complexes: the single crystal X-ray structures of [CdCl2(CS(NH2)NHCH3)2]n and [CdCl2(CS(NH2)NHCH2CH3)2]. Polyhedron, 2003, 22, 595-603.	1.0	58
5	Optical and structural characterization of nickel selenide nanoparticles synthesized by simple methods. Journal of Crystal Growth, 2009, 311, 3924-3932.	0.7	58
6	Chemically purified cellulose and its nanocrystals from sugarcane baggase: isolation and characterization. Heliyon, 2019, 5, e02635.	1.4	46
7	One-step synthesis of Cu3N, Cu2S and Cu9S5 and photocatalytic degradation of methyl orange and methylene blue. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112577.	2.0	43
8	Synthesis and characterization of MnS and MnSe nanoparticles: Morphology, optical and magnetic properties. Optical Materials, 2013, 36, 31-35.	1.7	39
9	Synthesis and characterization of nickel selenide nanoparticles: size and shape determining parameters. Journal of Crystal Growth, 2011, 324, 41-52.	0.7	34
10	Synthesis and characterization of Cu₃N nanoparticles using pyrrole-2-carbaldpropyliminato Cu(<scp>ii</scp>) complex and Cu(NO₃)₂ as single-source precursors: the search for an ideal precursor. New Journal of Chemistry, 2018, 42, 3042-3049.	1.4	34
11	Green synthesis of chitosan capped silver nanoparticles and their antimicrobial activity. MRS Advances, 2018, 3, 2505-2517.	0.5	33
12	N,Nâ€²-Diisopropyl- and N,Nâ€²-dicyclohexylthiourea cadmium(II) complexes as precursors for the synthesis of CdS nanoparticles. Polyhedron, 2007, 26, 3947-3955.	1.0	30
13	Unravelling the structural properties of mixed-valence Îµ- and Î²-AuSe nanostructures using XRD, TEM and XPS. Applied Surface Science, 2018, 456, 973-979.	3.1	26
14	N-alkylthioureacadmium (II) complexes as novel precursors for the synthesis of CdS nanoparticles. Journal of Materials Science: Materials in Electronics, 2004, 15, 313-316.	1.1	23
15	Evaluating Physicochemical Parameters, Heavy Metals, and Antibiotics in the Influents and Final Effluents of South African Wastewater Treatment Plants. Polish Journal of Environmental Studies, 2019, 28, 1305-1312.	0.6	22
16	The Effect of Precursor Concentration, Temperature and Capping Group on the Morphology of CdS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 4760-4766.	0.9	21
17	Synthesis and characterization of alanine-capped water soluble copper sulphide quantum dots. Materials Letters, 2012, 75, 161-164.	1.3	21
18	Visible Light-Active CdS/TiO₂ Hybrid Nanoparticles Immobilized on Polyacrylonitrile Membranes for the Photodegradation of Dyes in Water. Journal of Nanotechnology, 2019, 2019, 1-10.	1.5	21

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19	Effect of diphenylphosphinic acid on cesium lead iodide perovskite stability. CrystEngComm, 2018, 20, 5275-5280.	1.3	20
20	Designing the morphology of PbS nanoparticles through a single source precursor method. Journal of Saudi Chemical Society, 2017, 21, 593-598.	2.4	19
21	Elucidating the effect of precursor decomposition time on the structural and optical properties of copper(<scp>i</scp>) nitride nanocubes. RSC Advances, 2020, 10, 34231-34246.	1.7	18
22	Direct synthesis of water soluble CuS and CdS nanocrystals with hydrophilic glucuronic and thioglycolic acids. Materials Research Bulletin, 2012, 47, 4392-4397.	2.7	17
23	Antimicrobial Activity of Amino Acid-Capped Zinc and Copper Sulphide Nanoparticles. Journal of Nanotechnology, 2018, 2018, 1-9.	1.5	17
24	Role of the amine and phosphine groups in oleylamine and trioctylphosphine in the synthesis of copper chalcogenide nanoparticles. Heliyon, 2020, 6, e05130.	1.4	15
25	The effect of water-soluble capping molecules in the â€œGreenâ€•synthesis of CdS nanoparticles using the (Z)-2-(pyrrolidin-2-ylidene)thiourea ligand. Materials Letters, 2015, 146, 91-95.	1.3	14
26	Green synthetic approach for starch capped silver nanoparticles and their antibacterial activity. Pure and Applied Chemistry, 2016, 88, 61-69.	0.9	14
27	Optimized Loading of TiO₂ Nanoparticles into Electrospun Polyacrylonitrile and Cellulose Acetate Polymer Fibers. Journal of Nanomaterials, 2020, 2020, 1-10.	1.5	14
28	The effect of temperature on the growth of Ag2O nanoparticles and thin films from bis(2-hydroxy-1-naphthaldehydato)silver(I) complex by the thermal decomposition of spinâ€“coated films. Materials Science in Semiconductor Processing, 2017, 71, 109-115.	1.9	13
29	Lead-free Rudorffite-type Cs3Bi2Br9 nanoparticles for photocatalytic degradation of rhodamine B and methylene blue. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 419, 113460.	2.0	13
30	Synthesis and characterization of indium monoselenide nanosheets: A proposed pseudo top-down mechanism. Journal of Crystal Growth, 2014, 406, 1-7.	0.7	12
31	Structural modification and band-gap crossover in indium selenide nanosheets. RSC Advances, 2016, 6, 40777-40784.	1.7	12
32	Colloidal synthesis of pure CuInTe₂ crystallites based on the HSAB theory. New Journal of Chemistry, 2016, 40, 10259-10266.	1.4	12
33	Microwave assisted synthesis of CuInGaSe2 quantum dots and spray deposition of their composites with graphene oxide derivatives. Materials Chemistry and Physics, 2020, 242, 122449.	2.0	12
34	Cyclopentadienylnickel thiolate complexes: synthesis, molecular structures and electrochemical detection of sulfur dioxide adducts. Journal of Organometallic Chemistry, 2004, 689, 387-394.	0.8	11
35	Morphological and optical properties of MnS/polyvinylcarbazole hybrid composites. Physica B: Condensed Matter, 2009, 404, 4461-4465.	1.3	11
36	Fabrication of a Schottky Device Using CuSe Nanoparticles: Colloidal versus Microwave Digestive Synthesis. Journal of Nanoscience and Nanotechnology, 2015, 15, 4480-4486.	0.9	11

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37	Synthesis, characterization and cytotoxicity of alanine-capped CuS nanoparticles using human cervical carcinoma HeLa cells. Analytical Biochemistry, 2019, 580, 36-41.	1.1	11
38	Antimicrobial Activity of the Synthesized of Copper Chalcogenide Nanoparticles. Journal of Nanotechnology, 2021, 2021, 1-14.	1.5	11
39	Shape control of silver selenide nanoparticles using green capping molecules. Green Processing and Synthesis, 2017, 6, 183-188.	1.3	10
40	Diphenyldiselenide Mediated Synthesis of Copper Selenide Nanoparticles and their Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.1	10
41	Silver/Copper Nanoparticle-Modified Polymer Chitosan/PVA Blend Fibers. International Journal of Polymer Science, 2021, 2021, 1-12.	1.2	9
42	Investigation into the Phytochemical profile, Antioxidant and Antibacterial potentials of Combretum Molle and Acacia Mearnsii leaf parts. Biomedical and Pharmacology Journal, 2020, 13, 1683-1694.	0.2	9
43	Synthesis and X-Ray Single Crystal Structures of Cadmiym(II) Complexes: CdCl₂[CS(NHCH₃)₂]₂and CdCl₂(CS(NH₂)NHC₆H₅)₄-Single Source Precursors to CdS Nanoparticles. E-Journal of Chemistry, 2010, 7, 1148-1155.	0.4	8
44	TOPO-capped silver selenide nanoparticles and their incorporation into polymer nanofibers using electrospinning technique. Materials Research Bulletin, 2015, 65, 14-22.	2.7	8
45	Bis(2-hydroxy-1-naphthalenehydrato) Metal Complexes as Source of Face-Centered-Cubic Trioctylphosphine Oxide-Capped ZnO and CdO Nanoparticles Using Oleylamine as Dispersion Medium. Asian Journal of Chemistry, 2016, 28, 1015-1020.	0.1	7
46	Plasmonic electron deficient Cu 2â˜'x S semiconductor nanoparticles from cyclohexylamine- N -dithiocarbamate ligand. Materials Letters, 2017, 199, 28-31.	1.3	7
47	The influences of the concentrations of â€œgreen capping agentsâ€•as stabilizers and of ammonia as an activator in the synthesis of ZnS nanoparticles and their polymer nanocomposites. Green Processing and Synthesis, 2017, 6, 173-182.	1.3	7
48	The Influence of Temperature on the Formation of Cubic Structured CdO Nanoparticles and Their Thin Films from Bis(2-hydroxy-1-naphthaldehydato)cadmium(II) Complex via Thermal Decomposition Technique. Journal of Nanotechnology, 2017, 2017, 1-11.	1.5	7
49	Size quantization in Cu2Se nanocrystals. Optical Materials, 2014, 38, 310-313.	1.7	6
50	Probing the structure and functionalized surface of colloidal AuSe. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114878.	1.7	6
51	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. Journal of Materials Science, 2013, 48, 6418-6425.	1.7	5
52	Evolution of In2S3 Nanoplates with Time. Materials Today: Proceedings, 2015, 2, 3901-3908.	0.9	5
53	Starch-Capped Silver Selenide Nanoparticles: Effect of Capping Agent Concentration and Extraction Time on Size. Asian Journal of Chemistry, 2016, 28, 1315-1320.	0.1	5
54	Colloidal synthesis of Culn_{0.75}Ga_{0.25}Se₂ nanoparticles and their photovoltaic performance. Open Physics, 2016, 14, 420-425.	0.8	5

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55	Enhancing Photocatalytic Degradation of Methyl Blue Using PVP-Capped and Uncapped CdSe Nanoparticles. Journal of Nanotechnology, 2017, 2017, 1-6.	1.5	5
56	Bis(2-hydroxy-1-naphthaldehydato)zinc(II) as a precursor for the preparation of ZnO thin films through aerosol-assisted chemical vapour deposition. Thin Solid Films, 2019, 670, 99-104.	0.8	5
57	Hierarchical Nanoflowers of Colloidal WS2 and Their Potential Gas Sensing Properties for Room Temperature Detection of Ammonia. Processes, 2021, 9, 1491.	1.3	5
58	Dichloro (bis[diphenylthiourea]) cadmium complex as a precursor for HDA-capped CdS nanoparticles and their solubility in water. South African Journal of Science, 2010, 106, .	0.3	4
59	The Study on the Time Dependency and the Stability of Cobalt Sulphide Nanoparticles Under an Electron Beam. Journal of Nanoscience and Nanotechnology, 2010, 10, 5594-5601.	0.9	4
60	Influence of temperature and precursor concentration on the synthesis of HDA-capped Ag2Se nanoparticles. Materials Research Bulletin, 2013, 48, 2196-2200.	2.7	4
61	Colloidal InSe nanostructures: Effect of morphology on their chemical sensitivity to methanol and formaldehyde fumes. Sensors and Actuators B: Chemical, 2016, 236, 116-125.	4.0	4
62	Synthesis, characterisation and antimicrobial effect of starch capped silver sulphide nanoparticles against Escherichia coli and Staphylococcus aureus. International Journal of Nanotechnology, 2017, 14, 385.	0.1	4
63	Evaluating the effect of the substrate on the electrocatalytic performance of Cu2ZnSnS4 and Cu2ZnSnSe4 counter electrodes in dye-sensitized solar cells. Thin Solid Films, 2022, 745, 139099.	0.8	4
64	Simultaneous capping and substitution of nitrogen ions of Cu3N nanocrystals with sulfur ions using DDT as a co-surfactant to form chalcocite and digenite nanocrystals. Materials Chemistry and Physics, 2020, 251, 123074.	2.0	3
65	Green synthesis of silver nanoparticles using aqueous extract of Citrus sinensis peels and evaluation of their antibacterial efficacy. Green Processing and Synthesis, 2021, 10, 851-859.	1.3	3
66	A Facile Route for the Synthesis of Poly(N-vinylcarbazole)/Manganese Sulphide Quantum Dots Nanocomposites with Enhanced Optical Properties. Journal of Nanoscience and Nanotechnology, 2008, 8, 6031-6037.	0.9	2
67	Probing the stoichiometry dependent catalytic activity of nickel selenide counter electrodes in the redox reaction of iodide/triiodide electrolyte in dye sensitized solar cells. RSC Advances, 2020, 10, 39509-39520.	1.7	2
68	Anomalous photovoltaic behavior under illumination of Î³ - In2Se3 nanostructures used as hole transport layer in organic solar cell. Solar Energy, 2022, 241, 63-71.	2.9	2
69	Bis(p-chlorothiophenolato)bis(tri-n-butylphosphine)nickel(II). Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m568-m569.	0.2	1
70	Synthesis and Characterization of Glucuronic Acid Capped CdO and CdS Nanoparticles. Asian Journal of Chemistry, 2015, 27, 1916-1918.	0.1	1
71	Effect of Concentration on Synthesis of Organic Passivated Cu2-xS Nanoparticles from N-Pyrrolidine Dithiocarbamate Molecular Precursor. Asian Journal of Chemistry, 2018, 30, 1978-1982.	0.1	1
72	Zn and Mn Acetylacetonato Complexes as Precursors for Hexadecylamine-Capped ZnO and MnO Nanoparticles and their Water Solubility. Asian Journal of Chemistry, 2014, 26, 7963-7968.	0.1	0

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73	Influence of Temperature and Capping Molecules on the Synthesis of Cubic Structured Lead Sulfide Nanoparticles from Substituted Benzimidazole Dithiocarbamate Complex. Asian Journal of Chemistry, 2017, 29, 2711-2716.	0.1	0
74	Green synthesis of silver nanoparticles using aqueous extract of Combretum molle leaves, their antibacterial, antifungal and antioxidant activity. International Journal of Nano and Biomaterials, 2019, 8, 189.	0.1	0
75	Green synthesis of silver nanoparticles using aqueous extract of Combretum molle leaves, their antibacterial, antifungal and antioxidant activity. International Journal of Nano and Biomaterials, 2019, 8, 189.	0.1	0
76	Thermal Decomposition of Copper Acetate at Various Temperature and Time to form Copper Oxide/Copper Nanoparticles. Asian Journal of Chemistry, 2021, 34, 239-244.	0.1	0