Nosipho Moloto

List of Publications by Citations

75 papers	636 citations	14 h-index	21 g-index
85 ext. papers	794 ext. citations	3.5 avg, IF	4.03 L-index

#	Paper	IF	Citations
75	Optical and structural characterization of nickel selenide nanoparticles synthesized by simple methods. *Journal of Crystal Growth*, **2009**, 311, 3924-3932	1.6	51
74	Efficient luminescent down-shifting detectors based on colloidal quantum dots for dual-band detection applications. *ACS Nano*, **2011**, 5, 5566-71	16.7	49
73	Synthesis and characterization of MnS and MnSe nanoparticles: Morphology, optical and magnetic properties. *Optical Materials*, **2013**, 36, 31-35	3.3	33
72	N,N?-Diisopropyl- and N,N?-dicyclohexylthiourea cadmium(II) complexes as precursors for the synthesis of CdS nanoparticles. *Polyhedron*, **2007**, 26, 3947-3955	2.7	29
71	Synthesis and characterization of nickel selenide nanoparticles: size and shape determining parameters. *Journal of Crystal Growth*, **2011**, 324, 41-52	1.6	27
70	Synthesis and characterization of Cu3N nanoparticles using pyrrole-2-carbaldpropyliminato Cu(II) complex and Cu(NO3)2 as single-source precursors: the search for an ideal precursor. *New Journal of Chemistry*, **2018**, 42, 3042-3049	3.6	26
69	Improved efficiency of organic solar cells using Au NPs incorporated into PEDOT:PSS buffer layer. *AIP Advances*, **2017**, 7, 085302	1.5	23
68	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	4.7	21
67	Synthesis and characterization of alanine-capped water soluble copper sulphide quantum dots. *Materials Letters*, **2012**, 75, 161-164	3.3	20
66	Unravelling the structural properties of mixed-valence □and □AuSe nanostructures using XRD, TEM and XPS. *Applied Surface Science*, **2018**, 456, 973-979	6.7	20
65	The effect of precursor concentration, temperature and capping group on the morphology of CdS nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4760-6	1.3	19
64	Effect of diphenylphosphinic acid on cesium lead iodide perovskite stability. *CrystEngComm*, **2018**, 20, 5275-5280	3.3	18
63	Direct synthesis of water soluble CuS and CdS nanocrystals with hydrophilic glucuronic and thioglycolic acids. *Materials Research Bulletin*, **2012**, 47, 4392-4397	5.1	16
62	Optical and Morphological Properties of ZnO- and TiO2-Derived Nanostructures Synthesized via a Microwave-Assisted Hydrothermal Method. *International Journal of Photoenergy*, **2012**, 2012, 1-6	2.1	15
61	Degradation Kinetics of Methyl Orange Dye in Water Using Trimetallic Fe/Cu/Ag Nanoparticles. *Catalysts*, **2021**, 11, 428	4	13
60	The effect of water-soluble capping molecules in the □Green□synthesis of CdS nanoparticles using the (Z)-2-(pyrrolidin-2-ylidene)thiourea ligand. *Materials Letters*, **2015**, 146, 91-95	3.3	12
59	Synthesis of zirconia-based solid acid nanoparticles for fuel cell application. *Journal of Energy in Southern Africa*, **2016**, 27, 60	1.8	12

58	Colloidal synthesis of pure CuInTe2 crystallites based on the HSAB theory. *New Journal of Chemistry* , **2016**, 40, 10259-10266	3.6	11
57	Structural modification and band-gap crossover in indium selenide nanosheets. *RSC Advances*, **2016**, 6, 40777-40784	3.7	11
56	UV-assisted synthesis of indium nitride nano and microstructures. *Journal of Materials Chemistry A*, **2015**, 3, 5962-5970	13	10
55	Morphological and optical properties of MnS/polyvinylcarbazole hybrid composites. *Physica B: Condensed Matter*, **2009**, 404, 4461-4465	2.8	10
54	Microwave assisted synthesis of CuInGaSe2 quantum dots and spray deposition of their composites with graphene oxide derivatives. *Materials Chemistry and Physics*, **2020**, 242, 122449	4.4	10
53	Fabrication of a Schottky Device Using CuSe Nanoparticles: Colloidal versus Microwave Digestive Synthesis. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 4480-6	1.3	9
52	Complexity of Stakeholder Interaction in Applied Research. *Ecology and Society*, **2013**, 18,	4.1	9
51	Synthesis and characterization of indium monoselenide nanosheets: A proposed pseudo top-down mechanism. *Journal of Crystal Growth*, **2014**, 406, 1-7	1.6	8
50	Synthesis and characterization of mixed monolayer protected gold nanorods and their Raman activities. *Materials Research Bulletin*, **2013**, 48, 4181-4185	5.1	8
49	The effect of temperature on the growth of Ag 2 O nanoparticles and thin films from bis(2-hydroxy-1-naphthaldehydato)silver(I) complex by the thermal decomposition of spin□oated films. *Materials Science in Semiconductor Processing*, **2017**, 71, 109-115	4.3	7
48	Diphenyldiselenide Mediated Synthesis of Copper Selenide Nanoparticles and their Poly(methyl methacrylate) Nanofibers. *Asian Journal of Chemistry*, **2018**, 30, 1455-1459	0.4	7
47	Elucidating the structural properties of gold selenide nanostructures. *New Journal of Chemistry*, **2019**, 43, 5773-5782	3.6	6
46	TOPO-capped silver selenide nanoparticles and their incorporation into polymer nanofibers using electrospinning technique. *Materials Research Bulletin*, **2015**, 65, 14-22	5.1	6
45	Size quantization in Cu2Se nanocrystals. *Optical Materials*, **2014**, 38, 310-313	3.3	6
44	Elucidating the effect of precursor decomposition time on the structural and optical properties of copper(i) nitride nanocubes.. *RSC Advances*, **2020**, 10, 34231-34246	3.7	6
43	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	0.4	6
42	The Effect of Structural Properties of Cu2Se/Polyvinylcarbazole Nanocomposites on the Performance of Hybrid Solar Cells. *Journal of Nanomaterials*, **2016**, 2016, 1-8	3.2	6
41	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. *Journal of Materials Science*, **2013**, 48, 6418-6425	4.3	5

40	Schottky solar cells: Anisotropic versus isotropic CuSe nanocrystals. *Thin Solid Films*, **2013**, 531, 446-450	2.2	5
39	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	3.5	5
38	N,N-diisopropylthiourea and N,N-dicyclohexyl-thiourea zinc(II) complexes as precursors for the synthesis of ZnS nanoparticles. *South African Journal of Science*, **2010**, 105,	1.3	5
37	Colloidal synthesis of CuIn0.75Ga0.25Se2 nanoparticles and their photovoltaic performance. *Open Physics*, **2016**, 14, 420-425	1.3	5
36	Evolution of In2S3 Nanoplates with Time. *Materials Today: Proceedings*, **2015**, 2, 3901-3908	1.4	4
35	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. *Applied Surface Science*, **2017**, 396, 695-704	6.7	4
34	The study on the time dependency and the stability of cobalt sulphide nanoparticles under an electron beam. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 5594-601	1.3	4
33	Indium phosphide nanowires: Synthesis and integration into a gas sensing device. *Sensors and Actuators B: Chemical*, **2021**, 333, 129552	8.5	4
32	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	4.7	4
31	Colloidal InSe nanostructures: Effect of morphology on their chemical sensitivity to methanol and formaldehyde fumes. *Sensors and Actuators B: Chemical*, **2016**, 236, 116-125	8.5	3
30	Influence of temperature and precursor concentration on the synthesis of HDA-capped Ag2Se nanoparticles. *Materials Research Bulletin*, **2013**, 48, 2196-2200	5.1	3
29	The influences of the concentrations of green capping agents as stabilizers and of ammonia as an activator in the synthesis of ZnS nanoparticles and their polymer nanocomposites. *Green Processing and Synthesis*, **2017**, 6,	3.9	3
28	Evaluating the Effect of Varying the Metal Precursor in the Colloidal Synthesis of MoSe Nanomaterials and Their Application as Electrodes in the Hydrogen Evolution Reaction. *Nanomaterials*, **2020**, 10,	5.4	3
27	Delineating the role of crystallinity in the electrocatalytic activity of colloidally synthesized MoP nanocrystals. *New Journal of Chemistry*, **2020**, 44, 14041-14049	3.6	3
26	Hydrothermal Synthesis of TiO2 Nanotubes: Microwave Heating Versus Conventional Heating. *Ceramic Engineering and Science Proceedings*,45-49	0.1	3
25	Experimental and theoretical studies of 1-alkanethiols SAMs of various chain-lengths on gold nanoparticles and their effect on SERS, stability and surface properties. *Journal of Molecular Structure*, **2020**, 1221, 128801	3.4	2
24	The role of zinc metal salts on size, morphology and photocatalytic activity of ZnO. *MRS Advances*, **2018**, 3, 2653-2665	0.7	2
23	A size-controlled synthesis and characterization of mixed monolayer protected silver-S-(CH2)11-NHCO-coumarin nanoparticles and their Raman activities. *Journal of Materials Research*, **2015**, 30, 1934-1942	2.5	2

22	CoS-carbon nanotube heterostructure: one-step synthesis and optical properties. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4279-85	1.3	2
21	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, 6031-7	1.3	2
20	Platonic Gold Nanocrystals: Formation of Icosahedron and Decahedron Nanostructures Through Twining Mechanism. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 9832-9837	1.3	2
19	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	2.2	2
18	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	4.4	2
17	Phase-dependent electrocatalytic activity of colloidally synthesized WP and □WP2 electrocatalysts for hydrogen evolution reaction. *New Journal of Chemistry*, **2021**, 45, 15594-15606	3.6	2
16	The effect of temperature and time on the properties of 2D Cs2ZnBr4 perovskite nanocrystals and their application in a Schottky barrier device. *Journal of Materials Chemistry C*, **2021**, 9, 6022-6033	7.1	2
15	The effect of the metal and selenium precursors on the properties of NbSe and NbSe nanostructures and their application in dye-sensitized solar cells.. *RSC Advances*, **2021**, 11, 31159-31173	3.7	2
14	Improving Thermal Stability and Hydrophobicity of Rutile-TiO2 Nanoparticles for Oil-Impregnated Paper Application. *Energies*, **2021**, 14, 7964	3.1	1
13	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	3.7	1
12	Synthesis and characterization of 3-(p-tolyl)-2,3-dihydropyrazolo[3,4-b]indole-1(4H)-carbothioamide functionalized gold nanoparticles for the CIEL*a*b*/Yxy colorimetric detection of Cr(VI). *Journal of Molecular Structure*, **2020**, 1209, 127985	3.4	1
11	Probing the structure and functionalized surface of colloidal AuSe. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2021**, 263, 114878	3.1	1
10	Evaluating the antimicrobial activity and cytotoxicity of polydopamine capped silver and silver/polydopamine core-shell nanocomposites. *Arabian Journal of Chemistry*, **2022**, 15, 103798	5.9	1
9	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	2.2	0
8	Hierarchical Nanoflowers of Colloidal WS2 and Their Potential Gas Sensing Properties for Room Temperature Detection of Ammonia. *Processes*, **2021**, 9, 1491	2.9	0
7	N-doped graphene quantum dot-modified polyaniline for room-temperature sensing of alcohol vapors. *Materials Chemistry and Physics*, **2022**, 287, 126229	4.4	0
6	Electrocatalytic activity of pristine and electrochemically activated SnSe2 nanoplates for the hydrogen evolution reaction. *Journal of Electroanalytical Chemistry*, **2022**, 918, 116464	4.1	0
5	The Effects of Gold Seeds Stabilizing Agent on Gold Nanostructures Morphologies. *Materials Today: Proceedings*, **2015**, 2, 4149-4157	1.4	

4	Effect of the propanol water volume ratios on the properties of SnO2 nanocrystals. *Materials Research Express*, **2015**, 2, 015012	1.7
3	Thermal Decomposition of Copper Acetate at Various Temperature and Time to form Copper Oxide/Copper Nanoparticles. *Asian Journal of Chemistry*, **2021**, 34, 239-244	0.4
2	Laser Assisted Catalytic Growth of Silicon Nanowires Using Gold and Nickel Catalysts. *Journal of Nanoscience and Nanotechnology*, **2021**, 21, 5260-5265	1.3
1	Novel 2D-AuSe nanostructures as effective platinum replacement counter electrodes in dye-sensitized solar cells.. *RSC Advances*, **2022**, 12, 12882-12890	3.7