

Nosipho Moloto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Evaluating the effect of the substrate on the electrocatalytic performance of Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnSe ₄ counter electrodes in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2022 , 745, 139099	2.2	0
74	Evaluating the antimicrobial activity and cytotoxicity of polydopamine capped silver and silver/polydopamine core-shell nanocomposites. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103798	5.9	1
73	Novel 2D-AuSe nanostructures as effective platinum replacement counter electrodes in dye-sensitized solar cells.. <i>RSC Advances</i> , 2022 , 12, 12882-12890	3.7	
72	N-doped graphene quantum dot-modified polyaniline for room-temperature sensing of alcohol vapors. <i>Materials Chemistry and Physics</i> , 2022 , 287, 126229	4.4	0
71	Electrocatalytic activity of pristine and electrochemically activated SnSe ₂ nanoplates for the hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 918, 116464	4.1	0
70	Improving Thermal Stability and Hydrophobicity of Rutile-TiO ₂ Nanoparticles for Oil-Impregnated Paper Application. <i>Energies</i> , 2021 , 14, 7964	3.1	1
69	Thermal Decomposition of Copper Acetate at Various Temperature and Time to form Copper Oxide/Copper Nanoparticles. <i>Asian Journal of Chemistry</i> , 2021 , 34, 239-244	0.4	
68	Degradation Kinetics of Methyl Orange Dye in Water Using Trimetallic Fe/Cu/Ag Nanoparticles. <i>Catalysts</i> , 2021 , 11, 428	4	13
67	Indium phosphide nanowires: Synthesis and integration into a gas sensing device. <i>Sensors and Actuators B: Chemical</i> , 2021 , 333, 129552	8.5	4
66	Probing the structure and functionalized surface of colloidal AuSe. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 263, 114878	3.1	1
65	Phase-dependent electrocatalytic activity of colloidally synthesized WP and WP ₂ electrocatalysts for hydrogen evolution reaction. <i>New Journal of Chemistry</i> , 2021 , 45, 15594-15606	3.6	2
64	The effect of temperature and time on the properties of 2D Cs ₂ ZnBr ₄ perovskite nanocrystals and their application in a Schottky barrier device. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 6022-6033	7.1	2
63	The effect of the metal and selenium precursors on the properties of NbSe and NbSe nanostructures and their application in dye-sensitized solar cells.. <i>RSC Advances</i> , 2021 , 11, 31159-31173	3.7	2
62	Hierarchical Nanoflowers of Colloidal WS ₂ and Their Potential Gas Sensing Properties for Room Temperature Detection of Ammonia. <i>Processes</i> , 2021 , 9, 1491	2.9	0
61	Laser Assisted Catalytic Growth of Silicon Nanowires Using Gold and Nickel Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 5260-5265	1.3	
60	Lead-free Rudorffite-type Cs ₃ Bi ₂ Br ₉ nanoparticles for photocatalytic degradation of rhodamine B and methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 419, 113460	4.7	4
59	One-step synthesis of Cu ₃ N, Cu ₂ S and Cu ₉ S ₅ and photocatalytic degradation of methyl orange and methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 397, 112577	4.7	21

58	Experimental and theoretical studies of 1-alkanethiols SAMs of various chain-lengths on gold nanoparticles and their effect on SERS, stability and surface properties. <i>Journal of Molecular Structure</i> , 2020 , 1221, 128801	3.4	2
57	Microwave assisted synthesis of CuInGaSe ₂ quantum dots and spray deposition of their composites with graphene oxide derivatives. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122449	4.4	10
56	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. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
55	Elucidating the effect of precursor decomposition time on the structural and optical properties of copper(i) nitride nanocubes.. <i>RSC Advances</i> , 2020 , 10, 34231-34246	3.7	6
54	Delineating the role of crystallinity in the electrocatalytic activity of colloiddally synthesized MoP nanocrystals. <i>New Journal of Chemistry</i> , 2020 , 44, 14041-14049	3.6	3
53	Probing the stoichiometry dependent catalytic activity of nickel selenide counter electrodes in the redox reaction of iodide/triiodide electrolyte in dye sensitized solar cells.. <i>RSC Advances</i> , 2020 , 10, 39509-39520	3.7	1
52	Simultaneous capping and substitution of nitrogen ions of Cu ₃ N nanocrystals with sulfur ions using DDT as a co-surfactant to form chalcocite and digenite nanocrystals. <i>Materials Chemistry and Physics</i> , 2020 , 251, 123074	4.4	2
51	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). <i>Journal of Molecular Structure</i> , 2020 , 1209, 127985	3.4	1
50	Elucidating the structural properties of gold selenide nanostructures. <i>New Journal of Chemistry</i> , 2019 , 43, 5773-5782	3.6	6
49	Bis(2-hydroxy-1-naphthaldehydato)zinc(II) as a precursor for the preparation of ZnO thin films through aerosol-assisted chemical vapour deposition. <i>Thin Solid Films</i> , 2019 , 670, 99-104	2.2	2
48	The role of zinc metal salts on size, morphology and photocatalytic activity of ZnO. <i>MRS Advances</i> , 2018 , 3, 2653-2665	0.7	2
47	Synthesis and characterization of Cu ₃ N nanoparticles using pyrrole-2-carbaldpropyliminato Cu(II) complex and Cu(NO ₃) ₂ as single-source precursors: the search for an ideal precursor. <i>New Journal of Chemistry</i> , 2018 , 42, 3042-3049	3.6	26
46	Effect of diphenylphosphinic acid on cesium lead iodide perovskite stability. <i>CrystEngComm</i> , 2018 , 20, 5275-5280	3.3	18
45	Diphenyldiselenide Mediated Synthesis of Copper Selenide Nanoparticles and their Poly(methyl methacrylate) Nanofibers. <i>Asian Journal of Chemistry</i> , 2018 , 30, 1455-1459	0.4	7
44	Unravelling the structural properties of mixed-valence H ₂ and H ₂ AuSe nanostructures using XRD, TEM and XPS. <i>Applied Surface Science</i> , 2018 , 456, 973-979	6.7	20
43	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 coated films. <i>Materials Science in Semiconductor Processing</i> , 2017 , 71, 109-115	4.3	7
42	Improved efficiency of organic solar cells using Au NPs incorporated into PEDOT:PSS buffer layer. <i>AIP Advances</i> , 2017 , 7, 085302	1.5	23
41	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. <i>Applied Surface Science</i> , 2017 , 396, 695-704	6.7	4

40	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. <i>Green Processing and Synthesis</i> , 2017 , 6,	3.9	3
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. <i>Journal of Nanotechnology</i> , 2017 , 2017, 1-11	3.5	5
38	Colloidal synthesis of pure CuInTe ₂ crystallites based on the HSAB theory. <i>New Journal of Chemistry</i> , 2016 , 40, 10259-10266	3.6	11
37	Colloidal InSe nanostructures: Effect of morphology on their chemical sensitivity to methanol and formaldehyde fumes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 116-125	8.5	3
36	Synthesis of zirconia-based solid acid nanoparticles for fuel cell application. <i>Journal of Energy in Southern Africa</i> , 2016 , 27, 60	1.8	12
35	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. <i>Asian Journal of Chemistry</i> , 2016 , 28, 1015-1020	0.4	6
34	The Effect of Structural Properties of Cu ₂ Se/Polyvinylcarbazole Nanocomposites on the Performance of Hybrid Solar Cells. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-8	3.2	6
33	Colloidal synthesis of CuIn _{0.75} Ga _{0.25} Se ₂ nanoparticles and their photovoltaic performance. <i>Open Physics</i> , 2016 , 14, 420-425	1.3	5
32	Platonic Gold Nanocrystals: Formation of Icosahedron and Decahedron Nanostructures Through Twinning Mechanism. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9832-9837	1.3	2
31	Structural modification and band-gap crossover in indium selenide nanosheets. <i>RSC Advances</i> , 2016 , 6, 40777-40784	3.7	11
30	Evolution of In ₂ S ₃ Nanoplates with Time. <i>Materials Today: Proceedings</i> , 2015 , 2, 3901-3908	1.4	4
29	The Effects of Gold Seeds Stabilizing Agent on Gold Nanostructures Morphologies. <i>Materials Today: Proceedings</i> , 2015 , 2, 4149-4157	1.4	
28	A size-controlled synthesis and characterization of mixed monolayer protected silver-S-(CH ₂) ₁₁ -NHCO-coumarin nanoparticles and their Raman activities. <i>Journal of Materials Research</i> , 2015 , 30, 1934-1942	2.5	2
27	Effect of the propanol/water volume ratios on the properties of SnO ₂ nanocrystals. <i>Materials Research Express</i> , 2015 , 2, 015012	1.7	
26	The effect of water-soluble capping molecules in the Green Synthesis of CdS nanoparticles using the (Z)-2-(pyrrolidin-2-ylidene)thiourea ligand. <i>Materials Letters</i> , 2015 , 146, 91-95	3.3	12
25	Fabrication of a Schottky Device Using CuSe Nanoparticles: Colloidal versus Microwave Digestive Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4480-6	1.3	9
24	UV-assisted synthesis of indium nitride nano and microstructures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5962-5970	13	10
23	TOPO-capped silver selenide nanoparticles and their incorporation into polymer nanofibers using electrospinning technique. <i>Materials Research Bulletin</i> , 2015 , 65, 14-22	5.1	6

22	Synthesis and characterization of indium monoselenide nanosheets: A proposed pseudo top-down mechanism. <i>Journal of Crystal Growth</i> , 2014 , 406, 1-7	1.6	8
21	Size quantization in Cu ₂ Se nanocrystals. <i>Optical Materials</i> , 2014 , 38, 310-313	3.3	6
20	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. <i>Journal of Materials Science</i> , 2013 , 48, 6418-6425	4.3	5
19	Synthesis and characterization of mixed monolayer protected gold nanorods and their Raman activities. <i>Materials Research Bulletin</i> , 2013 , 48, 4181-4185	5.1	8
18	Schottky solar cells: Anisotropic versus isotropic CuSe nanocrystals. <i>Thin Solid Films</i> , 2013 , 531, 446-450	2.2	5
17	Influence of temperature and precursor concentration on the synthesis of HDA-capped Ag ₂ Se nanoparticles. <i>Materials Research Bulletin</i> , 2013 , 48, 2196-2200	5.1	3
16	Synthesis and characterization of MnS and MnSe nanoparticles: Morphology, optical and magnetic properties. <i>Optical Materials</i> , 2013 , 36, 31-35	3.3	33
15	Complexity of Stakeholder Interaction in Applied Research. <i>Ecology and Society</i> , 2013 , 18,	4.1	9
14	Synthesis and characterization of alanine-capped water soluble copper sulphide quantum dots. <i>Materials Letters</i> , 2012 , 75, 161-164	3.3	20
13	Direct synthesis of water soluble CuS and CdS nanocrystals with hydrophilic glucuronic and thioglycolic acids. <i>Materials Research Bulletin</i> , 2012 , 47, 4392-4397	5.1	16
12	Optical and Morphological Properties of ZnO- and TiO ₂ -Derived Nanostructures Synthesized via a Microwave-Assisted Hydrothermal Method. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-6	2.1	15
11	Efficient luminescent down-shifting detectors based on colloidal quantum dots for dual-band detection applications. <i>ACS Nano</i> , 2011 , 5, 5566-71	16.7	49
10	Synthesis and characterization of nickel selenide nanoparticles: size and shape determining parameters. <i>Journal of Crystal Growth</i> , 2011 , 324, 41-52	1.6	27
9	N,N-diisopropylthiourea and N,N-dicyclohexyl-thiourea zinc(II) complexes as precursors for the synthesis of ZnS nanoparticles. <i>South African Journal of Science</i> , 2010 , 105,	1.3	5
8	CoS-carbon nanotube heterostructure: one-step synthesis and optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4279-85	1.3	2
7	The study on the time dependency and the stability of cobalt sulphide nanoparticles under an electron beam. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5594-601	1.3	4
6	The effect of precursor concentration, temperature and capping group on the morphology of CdS nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4760-6	1.3	19
5	Morphological and optical properties of MnS/polyvinylcarbazole hybrid composites. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4461-4465	2.8	10

4	Optical and structural characterization of nickel selenide nanoparticles synthesized by simple methods. <i>Journal of Crystal Growth</i> , 2009 , 311, 3924-3932	1.6	51
3	A facile route for the synthesis of poly(N-vinylcarbazole)/manganese sulphide quantum dots nanocomposites with enhanced optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 6031-7	1.3	2
2	N,N'-Diisopropyl- and N,N'-dicyclohexylthiourea cadmium(II) complexes as precursors for the synthesis of CdS nanoparticles. <i>Polyhedron</i> , 2007 , 26, 3947-3955	2.7	29
1	Hydrothermal Synthesis of TiO ₂ Nanotubes: Microwave Heating Versus Conventional Heating. <i>Ceramic Engineering and Science Proceedings</i> , 45-49	0.1	3