

Mj 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.

70
papers

831
citations

16
h-index

25
g-index

76
ext. papers

974
ext. citations

2.8
avg, IF

4.35
L-index

#	Paper	IF	Citations
70	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
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	Green synthesis of silver nanoparticles using aqueous extract of Citrus sinensis peels and evaluation of their antibacterial efficacy. <i>Green Processing and Synthesis</i> , 2021 , 10, 851-859	3.9	
67	Silver/Copper Nanoparticle-Modified Polymer Chitosan/PVA Blend Fibers. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-12	2.4	3
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	Antimicrobial Activity of the Synthesized of Copper Chalcogenide Nanoparticles. <i>Journal of Nanotechnology</i> , 2021 , 2021, 1-14	3.5	2
64	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
63	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
62	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
61	Investigation into the Phytochemical profile, Antioxidant and Antibacterial potentials of Combretum Molle and Acacia Mearnsii leaf parts. <i>Biomedical and Pharmacology Journal</i> , 2020 , 13, 1683-1694	0.9	4
60	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
59	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
58	Optimized Loading of TiO ₂ Nanoparticles into Electrospun Polyacrylonitrile and Cellulose Acetate Polymer Fibers. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-10	3.2	4
57	Role of the amine and phosphine groups in oleylamine and trioctylphosphine in the synthesis of copper chalcogenide nanoparticles. <i>Heliyon</i> , 2020 , 6, e05130	3.6	8
56	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
55	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
54	Visible Light-Active CdS/TiO ₂ Hybrid Nanoparticles Immobilized on Polyacrylonitrile Membranes for the Photodegradation of Dyes in Water. <i>Journal of Nanotechnology</i> , 2019 , 2019, 1-10	3.5	13

53	Synthesis, characterization and cytotoxicity of alanine-capped CuS nanoparticles using human cervical carcinoma HeLa cells. <i>Analytical Biochemistry</i> , 2019 , 580, 36-41	3.1	7
52	Chemically purified cellulose and its nanocrystals from sugarcane baggase: isolation and characterization. <i>Heliyon</i> , 2019 , 5, e02635	3.6	15
51	Evaluating Physicochemical Parameters, Heavy Metals, and Antibiotics in the Influent and Final Effluents of South African Wastewater Treatment Plants. <i>Polish Journal of Environmental Studies</i> , 2019 , 28, 1305-1312	2.3	15
50	Green synthesis of silver nanoparticles using aqueous extract of Combretum molle leaves, their antibacterial, antifungal and antioxidant activity. <i>International Journal of Nano and Biomaterials</i> , 2019 , 8, 189	0.2	
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	Green synthesis of chitosan capped silver nanoparticles and their antimicrobial activity. <i>MRS Advances</i> , 2018 , 3, 2505-2517	0.7	19
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	Antimicrobial Activity of Amino Acid-Capped Zinc and Copper Sulphide Nanoparticles. <i>Journal of Nanotechnology</i> , 2018 , 2018, 1-9	3.5	7
44	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
43	Unravelling the structural properties of mixed-valence Hg ₂ and HgAuSe nanostructures using XRD, TEM and XPS. <i>Applied Surface Science</i> , 2018 , 456, 973-979	6.7	20
42	Plasmonic electron deficient Cu ₂ S semiconductor nanoparticles from cyclohexylamine- N -dithiocarbamate ligand. <i>Materials Letters</i> , 2017 , 199, 28-31	3.3	6
41	Designing the morphology of PbS nanoparticles through a single source precursor method. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 593-598	4.3	13
40	Shape control of silver selenide nanoparticles using green capping molecules. <i>Green Processing and Synthesis</i> , 2017 , 6,	3.9	4
39	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
38	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
37	Synthesis, characterisation and antimicrobial effect of starch capped silver sulphide nanoparticles against Escherichia coli and Staphylococcus aureus. <i>International Journal of Nanotechnology</i> , 2017 , 14, 385	1.5	2
36	Enhancing Photocatalytic Degradation of Methyl Blue Using PVP-Capped and Uncapped CdSe Nanoparticles. <i>Journal of Nanotechnology</i> , 2017 , 2017, 1-6	3.5	2

35	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
34	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
33	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
32	Green synthetic approach for starch capped silver nanoparticles and their antibacterial activity. <i>Pure and Applied Chemistry</i> , 2016 , 88, 61-69	2.1	10
31	Starch-Capped Silver Selenide Nanoparticles: Effect of Capping Agent Concentration and Extraction Time on Size. <i>Asian Journal of Chemistry</i> , 2016 , 28, 1315-1320	0.4	4
30	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
29	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
28	Structural modification and band-gap crossover in indium selenide nanosheets. <i>RSC Advances</i> , 2016 , 6, 40777-40784	3.7	11
27	Evolution of In ₂ S ₃ Nanoplates with Time. <i>Materials Today: Proceedings</i> , 2015 , 2, 3901-3908	1.4	4
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	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
23	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
22	Size quantization in Cu ₂ Se nanocrystals. <i>Optical Materials</i> , 2014 , 38, 310-313	3.3	6
21	Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. <i>Journal of Materials Science</i> , 2013 , 48, 6418-6425	4.3	5
20	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
19	Synthesis and characterization of MnS and MnSe nanoparticles: Morphology, optical and magnetic properties. <i>Optical Materials</i> , 2013 , 36, 31-35	3.3	33
18	Synthesis and characterization of alanine-capped water soluble copper sulphide quantum dots. <i>Materials Letters</i> , 2012 , 75, 161-164	3.3	20

17	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
16	The Effect of Solvents, Acetone, Water, and Ethanol, on the Morphological and Optical Properties of ZnO Nanoparticles Prepared by Microwave. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-6	3.5	53
15	Properties of electrospun CdS and CdSe filled poly(methyl methacrylate) (PMMA) nanofibres. <i>Materials Research Bulletin</i> , 2011 , 46, 569-575	5.1	55
14	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
13	Synthesis of hexadecylamine capped nanoparticles using group 12 complexes of N-alkyl-N-phenyl dithiocarbamate as single-source precursors. <i>Polyhedron</i> , 2011 , 30, 246-252	2.7	56
12	Dichloro (bis[diphenylthiourea]) cadmium complex as a precursor for HDA-capped CdS nanoparticles and their solubility in water. <i>South African Journal of Science</i> , 2010 , 106,	1.3	3
11	Synthesis and X-Ray Single Crystal Structures of Cadmium(II) Complexes: CdCl ₂ [CS(NHCH ₃) ₂] ₂ and CdCl ₂ (CS(NH ₂)NHC ₆ H ₅) ₄ -Single Source Precursors to CdS Nanoparticles. <i>E-Journal of Chemistry</i> , 2010 , 7, 1148-1155		7
10	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
9	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
8	Morphological and optical properties of MnS/polyvinylcarbazole hybrid composites. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4461-4465	2.8	10
7	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
6	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
5	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
4	N-alkylthiourea-cadmium (II) complexes as novel precursors for the synthesis of CdS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2004 , 15, 313-316	2.1	21
3	Cyclopentadienylnickel thiolate complexes: synthesis, molecular structures and electrochemical detection of sulfur dioxide adducts. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 387-394	2.3	11
2	Synthesis and characterisation of some N-alkyl/aryl and N,N'-dialkyl/aryl thiourea cadmium(II) complexes: the single crystal X-ray structures of [CdCl ₂ (CS(NH ₂)NHCH ₃) ₂] _n and [CdCl ₂ (CS(NH ₂)NHCH ₂ CH ₃) ₂]. <i>Polyhedron</i> , 2003 , 22, 595-603	2.7	53
1	Bis(p-chlorothiophenolato)bis(tri-n-butylphosphine)nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001 , 57, m568-m569		1