

# Mj Moloto

## List of Publications by Citations

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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 | Synthesis of hexadecylamine capped nanoparticles using group 12 complexes of N-alkyl-N-phenyl dithiocarbamate as single-source precursors. <i>Polyhedron</i> , <b>2011</b> , 30, 246-252                                                                                                                                                                                               | 2.7 | 56        |
| 69 | Properties of electrospun CdS and CdSe filled poly(methyl methacrylate) (PMMA) nanofibres. <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 569-575                                                                                                                                                                                                                              | 5.1 | 55        |
| 68 | 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> , <b>2012</b> , 2012, 1-6                                                                                                                                                                                | 3.5 | 53        |
| 67 | 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 <sub>2</sub> (CS(NH <sub>2</sub> )NHCH <sub>3</sub> ) <sub>2</sub> ] <sub>n</sub> and [CdCl <sub>2</sub> (CS(NH <sub>2</sub> )NHCH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub> ]. <i>Polyhedron</i> , <b>2003</b> , 22, 595-603 | 2.7 | 53        |
| 66 | Optical and structural characterization of nickel selenide nanoparticles synthesized by simple methods. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 3924-3932                                                                                                                                                                                                                | 1.6 | 51        |
| 65 | Synthesis and characterization of MnS and MnSe nanoparticles: Morphology, optical and magnetic properties. <i>Optical Materials</i> , <b>2013</b> , 36, 31-35                                                                                                                                                                                                                          | 3.3 | 33        |
| 64 | N,N?-Diisopropyl- and N,N?-dicyclohexylthiourea cadmium(II) complexes as precursors for the synthesis of CdS nanoparticles. <i>Polyhedron</i> , <b>2007</b> , 26, 3947-3955                                                                                                                                                                                                            | 2.7 | 29        |
| 63 | Synthesis and characterization of nickel selenide nanoparticles: size and shape determining parameters. <i>Journal of Crystal Growth</i> , <b>2011</b> , 324, 41-52                                                                                                                                                                                                                    | 1.6 | 27        |
| 62 | Synthesis and characterization of Cu <sub>3</sub> N nanoparticles using pyrrole-2-carbaldpropyliminato Cu(II) complex and Cu(NO <sub>3</sub> ) <sub>2</sub> as single-source precursors: the search for an ideal precursor. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 3042-3049                                                                                              | 3.6 | 26        |
| 61 | One-step synthesis of Cu <sub>3</sub> N, Cu <sub>2</sub> S and Cu <sub>9</sub> S <sub>5</sub> and photocatalytic degradation of methyl orange and methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 397, 112577                                                                                                                           | 4.7 | 21        |
| 60 | N-alkylthiourea cadmium (II) complexes as novel precursors for the synthesis of CdS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2004</b> , 15, 313-316                                                                                                                                                                                           | 2.1 | 21        |
| 59 | Synthesis and characterization of alanine-capped water soluble copper sulphide quantum dots. <i>Materials Letters</i> , <b>2012</b> , 75, 161-164                                                                                                                                                                                                                                      | 3.3 | 20        |
| 58 | Unravelling the structural properties of mixed-valence H <sub>2</sub> and H <sub>2</sub> AuSe nanostructures using XRD, TEM and XPS. <i>Applied Surface Science</i> , <b>2018</b> , 456, 973-979                                                                                                                                                                                       | 6.7 | 20        |
| 57 | Green synthesis of chitosan capped silver nanoparticles and their antimicrobial activity. <i>MRS Advances</i> , <b>2018</b> , 3, 2505-2517                                                                                                                                                                                                                                             | 0.7 | 19        |
| 56 | The effect of precursor concentration, temperature and capping group on the morphology of CdS nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4760-6                                                                                                                                                                                                | 1.3 | 19        |
| 55 | Effect of diphenylphosphinic acid on cesium lead iodide perovskite stability. <i>CrystEngComm</i> , <b>2018</b> , 20, 5275-5280                                                                                                                                                                                                                                                        | 3.3 | 18        |
| 54 | Direct synthesis of water soluble CuS and CdS nanocrystals with hydrophilic glucuronic and thioglycolic acids. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 4392-4397                                                                                                                                                                                                        | 5.1 | 16        |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 53 | Chemically purified cellulose and its nanocrystals from sugarcane baggase: isolation and characterization. <i>Heliyon</i> , <b>2019</b> , 5, e02635                                                                                                                                                                                                | 3.6 | 15 |
| 52 | 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> , <b>2019</b> , 28, 1305-1312                                                                                                                | 2.3 | 15 |
| 51 | Designing the morphology of PbS nanoparticles through a single source precursor method. <i>Journal of Saudi Chemical Society</i> , <b>2017</b> , 21, 593-598                                                                                                                                                                                       | 4.3 | 13 |
| 50 | Visible Light-Active CdS/TiO <sub>2</sub> Hybrid Nanoparticles Immobilized on Polyacrylonitrile Membranes for the Photodegradation of Dyes in Water. <i>Journal of Nanotechnology</i> , <b>2019</b> , 2019, 1-10                                                                                                                                   | 3.5 | 13 |
| 49 | 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> , <b>2015</b> , 146, 91-95                                                                                                                                               | 3.3 | 12 |
| 48 | Colloidal synthesis of pure CuInTe <sub>2</sub> crystallites based on the HSAB theory. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 10259-10266                                                                                                                                                                                             | 3.6 | 11 |
| 47 | Cyclopentadienylnickel thiolate complexes: synthesis, molecular structures and electrochemical detection of sulfur dioxide adducts. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 387-394                                                                                                                                        | 2.3 | 11 |
| 46 | Structural modification and band-gap crossover in indium selenide nanosheets. <i>RSC Advances</i> , <b>2016</b> , 6, 40777-40784                                                                                                                                                                                                                   | 3.7 | 11 |
| 45 | Green synthetic approach for starch capped silver nanoparticles and their antibacterial activity. <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 61-69                                                                                                                                                                                      | 2.1 | 10 |
| 44 | Morphological and optical properties of MnS/polyvinylcarbazole hybrid composites. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 4461-4465                                                                                                                                                                                                | 2.8 | 10 |
| 43 | Microwave assisted synthesis of CuInGaSe <sub>2</sub> quantum dots and spray deposition of their composites with graphene oxide derivatives. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 242, 122449                                                                                                                                    | 4.4 | 10 |
| 42 | Fabrication of a Schottky Device Using CuSe Nanoparticles: Colloidal versus Microwave Digestive Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 4480-6                                                                                                                                                             | 1.3 | 9  |
| 41 | Synthesis and characterization of indium monoselenide nanosheets: A proposed pseudo top-down mechanism. <i>Journal of Crystal Growth</i> , <b>2014</b> , 406, 1-7                                                                                                                                                                                  | 1.6 | 8  |
| 40 | Role of the amine and phosphine groups in oleylamine and trioctylphosphine in the synthesis of copper chalcogenide nanoparticles. <i>Heliyon</i> , <b>2020</b> , 6, e05130                                                                                                                                                                         | 3.6 | 8  |
| 39 | Synthesis, characterization and cytotoxicity of alanine-capped CuS nanoparticles using human cervical carcinoma HeLa cells. <i>Analytical Biochemistry</i> , <b>2019</b> , 580, 36-41                                                                                                                                                              | 3.1 | 7  |
| 38 | The effect of temperature on the growth of Ag <sub>2</sub> 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> , <b>2017</b> , 71, 109-115                                                              | 4.3 | 7  |
| 37 | Synthesis and X-Ray Single Crystal Structures of Cadmium(II) Complexes: CdCl <sub>2</sub> [CS(NHCH <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> and CdCl <sub>2</sub> (CS(NH <sub>2</sub> )NHC <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> -Single Source Precursors to CdS Nanoparticles. <i>E-Journal of Chemistry</i> , <b>2010</b> , 7, 1148-1155 |     | 7  |
| 36 | Antimicrobial Activity of Amino Acid-Capped Zinc and Copper Sulphide Nanoparticles. <i>Journal of Nanotechnology</i> , <b>2018</b> , 2018, 1-9                                                                                                                                                                                                     | 3.5 | 7  |

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| 35 | Diphenyldiselenide Mediated Synthesis of Copper Selenide Nanoparticles and their Poly(methyl methacrylate) Nanofibers. <i>Asian Journal of Chemistry</i> , <b>2018</b> , 30, 1455-1459                                                                              | 0.4 | 7 |
| 34 | Plasmonic electron deficient Cu <sub>2</sub> S semiconductor nanoparticles from cyclohexylamine- N -dithiocarbamate ligand. <i>Materials Letters</i> , <b>2017</b> , 199, 28-31                                                                                     | 3.3 | 6 |
| 33 | TOPO-capped silver selenide nanoparticles and their incorporation into polymer nanofibers using electrospinning technique. <i>Materials Research Bulletin</i> , <b>2015</b> , 65, 14-22                                                                             | 5.1 | 6 |
| 32 | Size quantization in Cu <sub>2</sub> Se nanocrystals. <i>Optical Materials</i> , <b>2014</b> , 38, 310-313                                                                                                                                                          | 3.3 | 6 |
| 31 | Elucidating the effect of precursor decomposition time on the structural and optical properties of copper(i) nitride nanocubes.. <i>RSC Advances</i> , <b>2020</b> , 10, 34231-34246                                                                                | 3.7 | 6 |
| 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> , <b>2016</b> , 28, 1015-1020                | 0.4 | 6 |
| 29 | Unique flexible silver dendrites thin films fabricated on cellulose dialysis cassettes. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 6418-6425                                                                                                           | 4.3 | 5 |
| 28 | 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> , <b>2017</b> , 2017, 1-11 | 3.5 | 5 |
| 27 | Colloidal synthesis of CuIn <sub>0.75</sub> Ga <sub>0.25</sub> Se <sub>2</sub> nanoparticles and their photovoltaic performance. <i>Open Physics</i> , <b>2016</b> , 14, 420-425                                                                                    | 1.3 | 5 |
| 26 | Shape control of silver selenide nanoparticles using green capping molecules. <i>Green Processing and Synthesis</i> , <b>2017</b> , 6,                                                                                                                              | 3.9 | 4 |
| 25 | Evolution of In <sub>2</sub> S <sub>3</sub> Nanoplates with Time. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, 3901-3908                                                                                                                                  | 1.4 | 4 |
| 24 | The study on the time dependency and the stability of cobalt sulphide nanoparticles under an electron beam. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5594-601                                                                           | 1.3 | 4 |
| 23 | Investigation into the Phytochemical profile, Antioxidant and Antibacterial potentials of Combretum Molle and Acacia Mearnsii leaf parts. <i>Biomedical and Pharmacology Journal</i> , <b>2020</b> , 13, 1683-1694                                                  | 0.9 | 4 |
| 22 | Optimized Loading of TiO <sub>2</sub> Nanoparticles into Electrospun Polyacrylonitrile and Cellulose Acetate Polymer Fibers. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-10                                                                             | 3.2 | 4 |
| 21 | Starch-Capped Silver Selenide Nanoparticles: Effect of Capping Agent Concentration and Extraction Time on Size. <i>Asian Journal of Chemistry</i> , <b>2016</b> , 28, 1315-1320                                                                                     | 0.4 | 4 |
| 20 | Lead-free Rudorffite-type Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> nanoparticles for photocatalytic degradation of rhodamine B and methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 419, 113460                | 4.7 | 4 |
| 19 | Colloidal InSe nanostructures: Effect of morphology on their chemical sensitivity to methanol and formaldehyde fumes. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 236, 116-125                                                                         | 8.5 | 3 |
| 18 | Influence of temperature and precursor concentration on the synthesis of HDA-capped Ag <sub>2</sub> Se nanoparticles. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 2196-2200                                                                              | 5.1 | 3 |

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| 17 | 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> , <b>2017</b> , 6,                    | 3.9 | 3 |
| 16 | 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> , <b>2010</b> , 106,                                                                   | 1.3 | 3 |
| 15 | Silver/Copper Nanoparticle-Modified Polymer Chitosan/PVA Blend Fibers. <i>International Journal of Polymer Science</i> , <b>2021</b> , 2021, 1-12                                                                                                              | 2.4 | 3 |
| 14 | Synthesis, characterisation and antimicrobial effect of starch capped silver sulphide nanoparticles against Escherichia coli and Staphylococcus aureus. <i>International Journal of Nanotechnology</i> , <b>2017</b> , 14, 385                                 | 1.5 | 2 |
| 13 | Enhancing Photocatalytic Degradation of Methyl Blue Using PVP-Capped and Uncapped CdSe Nanoparticles. <i>Journal of Nanotechnology</i> , <b>2017</b> , 2017, 1-6                                                                                               | 3.5 | 2 |
| 12 | 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> , <b>2008</b> , 8, 6031-7                                         | 1.3 | 2 |
| 11 | 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> , <b>2019</b> , 670, 99-104                                                        | 2.2 | 2 |
| 10 | Simultaneous capping and substitution of nitrogen ions of Cu <sub>3</sub> N nanocrystals with sulfur ions using DDT as a co-surfactant to form chalcocite and digenite nanocrystals. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 251, 123074        | 4.4 | 2 |
| 9  | Antimicrobial Activity of the Synthesized of Copper Chalcogenide Nanoparticles. <i>Journal of Nanotechnology</i> , <b>2021</b> , 2021, 1-14                                                                                                                    | 3.5 | 2 |
| 8  | Bis(p-chlorothiophenolato)bis(tri-n-butylphosphine)nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2001</b> , 57, m568-m569                                                                                                 |     | 1 |
| 7  | 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> , <b>2020</b> , 10, 39509-39520                         | 3.7 | 1 |
| 6  | Probing the structure and functionalized surface of colloidal AuSe. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 263, 114878                                                                      | 3.1 | 1 |
| 5  | Evaluating the effect of the substrate on the electrocatalytic performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> and Cu <sub>2</sub> ZnSnSe <sub>4</sub> counter electrodes in dye-sensitized solar cells. <i>Thin Solid Films</i> , <b>2022</b> , 745, 139099 | 2.2 | 0 |
| 4  | Hierarchical Nanoflowers of Colloidal WS <sub>2</sub> and Their Potential Gas Sensing Properties for Room Temperature Detection of Ammonia. <i>Processes</i> , <b>2021</b> , 9, 1491                                                                           | 2.9 | 0 |
| 3  | Thermal Decomposition of Copper Acetate at Various Temperature and Time to form Copper Oxide/Copper Nanoparticles. <i>Asian Journal of Chemistry</i> , <b>2021</b> , 34, 239-244                                                                               | 0.4 |   |
| 2  | Green synthesis of silver nanoparticles using aqueous extract of Citrus sinensis peels and evaluation of their antibacterial efficacy. <i>Green Processing and Synthesis</i> , <b>2021</b> , 10, 851-859                                                       | 3.9 |   |
| 1  | 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> , <b>2019</b> , 8, 189                                | 0.2 |   |