

# Malek Maaza

## 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.

547 papers	14,654 citations	67 h-index	97 g-index
576 ext. papers	17,777 ext. citations	3.5 avg, IF	7.17 L-index

#	Paper	IF	Citations
547	Industrial textile removal using date pit assisted CuO-MgO nanocomposite: Molecular dynamics and biosynthesis analysis. <i>Journal of King Saud University - Science</i> , <b>2022</b> , 34, 101840	3.6	0
546	Binder-free fabricated CuFeS <sub>2</sub> electrodes for supercapacitor applications. <i>Materials Research Express</i> , <b>2022</b> , 9, 025501	1.7	0
545	Reproducibility and long-term stability of Sn doped MnO nanostructures: Practical photocatalytic systems and wastewater treatment applications.. <i>Chemosphere</i> , <b>2022</b> , 293, 133646	8.4	7
544	Influence of precursor pH on the optical and electrical properties of electrochemically deposited cobalt-doped ZnSe thin films for photovoltaic application. <i>Current Research in Green and Sustainable Chemistry</i> , <b>2022</b> , 5, 100286	4.1	2
543	Two-step chromium photo-precipitation in the sequential UV/sulfite / Manganese dioxide processes: Efficiency, kinetic, energy- economic evaluation, and sludge survey. <i>Journal of King Saud University - Science</i> , <b>2022</b> , 34, 101894	3.6	1
542	Influence of device architectures and mobility on response/recovery time of metal halide perovskites: A review. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 1555	4.3	3
541	Zinc ferrite nanoparticles capped with Gongronema latifolium for moderate hyperthermia applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2022</b> , 128, 1	2.6	3
540	Effects of 7 MeV proton irradiation on microstructural, morphological, optical, and electrical properties of fluorine-doped tin oxide thin films. <i>Surfaces and Interfaces</i> , <b>2022</b> , 28, 101693	4.1	1
539	Green synthesis of multilayer Graphene/ZnO nanocomposite for photocatalytic applications. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 900, 163526	5.7	3
538	ZnO nanoparticles prepared via a green synthesis approach: Physical properties, photocatalytic and antibacterial activity. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 160, 110313	3.9	14
537	Effect of the bottom layer thickness on the structural and optical phase transition properties of V <sub>2</sub> O <sub>5</sub> /V/V <sub>2</sub> O <sub>5</sub> thin films. <i>Materials Today: Proceedings</i> , <b>2022</b> , 53, 454-461	1.4	0
536	Cluster-coalesced defects induced by gamma irradiation on pulsed laser deposited VO <sub>2</sub> thin films. <i>Materials Today: Proceedings</i> , <b>2022</b> , 53, 429-431	1.4	0
535	Structural and morphological studies of proton irradiated vanadium dioxide thin films. <i>Materials Today: Proceedings</i> , <b>2022</b> , 53, 399-403	1.4	
534	Investigation of physical, magnetic, and electrochemical properties of silver-iron nanoparticles synthesized by gamma radiolysis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2022</b> , 128, 1	2.6	0
533	From Khoi-San indigenous knowledge to bioengineered CeO nanocrystals to exceptional UV-blocking green nanocosmetics.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3468	4.9	0
532	Novel green synthesized Cr <sub>2</sub> O <sub>3</sub> for selective solar absorber: Investigation of structural, morphological, chemical, and optical properties. <i>Solar Energy</i> , <b>2022</b> , 236, 308-319	6.8	3
531	Biosynthesized metallic nanoparticles as fertilizers: An emerging precision agriculture strategy. <i>Journal of Integrative Agriculture</i> , <b>2022</b> , 21, 1225-1242	3.2	2

530	Influence of precursor pH on Bi doped ZnSe material via electrochemical deposition technique. <i>Applied Surface Science Advances</i> , <b>2022</b> , 9, 100232	2.6	0
529	Graphene oxide enhanced Co3O4/NiO composite electrodes for supercapacitive devices applications. <i>Applied Surface Science Advances</i> , <b>2022</b> , 9, 100254	2.6	1
528	Hydrothermal synthesis and characterization of undoped and W-doped vanadium dioxide nanorods for thermochromic application. <i>Journal of Crystal Growth</i> , <b>2022</b> , 590, 126702	1.6	0
527	Enhanced optical transmittance of silver nanowires via gamma rays irradiation. <i>Journal of King Saud University - Science</i> , <b>2022</b> , 34, 102058	3.6	
526	Floral extracts-mediated green synthesis of NiO nanoparticles and their diverse pharmacological evaluations. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 4133-4147	3.6	4
525	Microwave assisted growth of highly oriented vanadium oxides nanostructures: structural, vibrational and electrical properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	0
524	Radiations Induced Defects in electrode materials for energy storage devices. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 191, 109838	2.5	4
523	Thickness dependent morphological, structural and optical properties of SS/CuO nanocoatings as selective solar absorber. <i>Infrared Physics and Technology</i> , <b>2021</b> , 113, 103619	2.7	8
522	Effects of copper ion irradiation on $\{(\mathbf{C}\mathbf{u})_{\mathbf{y}}(\mathbf{Zn})_{\mathbf{1-2y}}(\mathbf{Mn})_{\mathbf{x}}(\mathbf{M})_{\mathbf{n}}(\mathbf{O})_{\mathbf{m}}\}$ supercapacitive electrodes. <i>Journal of Applied Electrochemistry</i> , <b>2021</b> , 51, 829-845	2.2	0
521	Noble Metal Ion Embedded Nanocomposite Glass Materials for Optical Functionality of UV-Visible Surface Plasmon Resonance (SPR) Surface-Enhanced Raman Scattering (SERS) X-ray and Electron Microscopic Studies: An Overview. <i>Plasmonics</i> , <b>2021</b> , 16, 1461-1493	2.4	3
520	Green synthesis of single phase hausmannite Mn3O4 nanoparticles via Aspalathus linearis natural extract. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	3
519	A nanotechnology-foresight perspective of South Africa. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 92	2.3	3
518	Morphological Study of Nanostructures Induced by Direct Femtosecond Laser Ablation on Diamond. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	1
517	Impact of particle size and surface defects on antibacterial and photocatalytic activities of undoped and Mg-doped ZnO nanoparticles, biosynthesized using one-step simple process. <i>Vacuum</i> , <b>2021</b> , 187, 110110	3.7	15
516	Dry Gongronema latifolium aqueous extract mediated silver nanoparticles by one-step in-situ biosynthesis for antibacterial activities. <i>Surfaces and Interfaces</i> , <b>2021</b> , 24, 101116	4.1	7
515	Precursor effects on the physical, biological, and catalytic properties of Fagonia indica Burm.f. mediated zinc oxide nanoparticles. <i>Microscopy Research and Technique</i> , <b>2021</b> , 84, 3087-3103	2.8	5
514	Silver nanoparticles biosynthesized from secondary metabolite producing marine actinobacteria and evaluation of their biomedical potential. <i>Antonie Van Leeuwenhoek</i> , <b>2021</b> , 114, 1497-1516	2.1	3
513	Scattering of $e(^{\text{pm}})$ off silver atom over the energy range 1 eV–1 MeV. <i>European Physical Journal D</i> , <b>2021</b> , 75, 1	1.3	4

512	Green synthesis of khat mediated silver nanoparticles for efficient detection of mercury ions. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 368-373	1.4	4
511	Thermal conductivity enhancement in MoO <sub>3</sub> /H <sub>2</sub> O nano-sheets based nano-fluids. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 379-382	1.4	2
510	Zinc zirconate (ZnZrO <sub>3</sub> ) nanocomposites bimetallic designed by green synthesis via Moringa Oleifera extract for high-performance electrochemical applications. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 401-407	1.4	4
509	Synthesis of graphene sheets from graphite flake mediated with extracts of various indigenous plants from Madagascar. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 553-558	1.4	4
508	A study of the temperature effect on photoluminescence of the P3HT/MWNT nanocomposites. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 549-552	1.4	
507	Laser-induced breakdown spectroscopy (LIBS) on geological materials: Relative hardness estimation. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 600-603	1.4	1
506	Experimental and theoretical studies of the solid-state performance of electrodeposited Yb <sub>2</sub> O <sub>3</sub> /As <sub>2</sub> Se <sub>3</sub> nanocomposite films. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157324	5.7	
505	Bio-synthesised black Ti-Cr <sub>2</sub> O <sub>3</sub> nanoparticles; experimental analysis and density function theory calculations. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156671	5.7	8
504	Laser fabrication of Cu nanoparticles based nanofluid with enhanced thermal conductivity: Experimental and molecular dynamics studies. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 323, 114975	6	8
503	Relativistic study on the scattering of electrons and positrons from atomic iron at energies 1 eV – 10 keV. <i>Molecular Physics</i> , <b>2021</b> , 119, e1849838	1.7	3
502	Molecular dynamics and bio-synthesis of phoenix dactylifera mediated Mn <sub>3</sub> O <sub>4</sub> nanoparticles: Electrochemical application. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 854, 156987	5.7	6
501	An overview of the mathematical modelling of perovskite solar cells towards achieving highly efficient perovskite devices. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 1496-1516	4.5	4
500	Biosynthesis of hematite phase Ti-Fe <sub>2</sub> O <sub>3</sub> nanoparticles using an aqueous extract of Rosmarinus officinalis leaves. <i>Materials Today: Proceedings</i> , <b>2021</b> , 43, 3679-3683	1.4	5
499	Synthesis of new pyridines with sulfonamide moiety a cooperative vinylogous anomeric-based oxidation mechanism in the presence of a novel quinoline-based dendrimer-like ionic liquid.. <i>RSC Advances</i> , <b>2021</b> , 11, 3143-3152	3.7	9
498	First principle simulation of coated hydroxychloroquine on Ag, Au and Pt nanoparticles. <i>Scientific Reports</i> , <b>2021</b> , 11, 2131	4.9	8
497	Functional metal oxides synthesized using natural extracts from waste maize materials. <i>Current Research in Green and Sustainable Chemistry</i> , <b>2021</b> , 4, 100054	4.1	2
496	Luminescent MoS Quantum Dots with Tunable Operating Potential for Energy-Enhanced Aqueous Supercapacitors. <i>ACS Omega</i> , <b>2021</b> , 6, 4542-4550	3.9	6
495	Biogenic synthesis enhanced structural, morphological, magnetic and optical properties of zinc ferrite nanoparticles for moderate hyperthermia applications. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 1	2.3	11

494	The Nanotechnology Innovation Diamond: A model for successful nanoscience research and development. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 1	2.3	
493	Isolation and characterization of chitosan from Ugandan edible mushrooms, Nile perch scales and banana weevils for biomedical applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 4116	4.9	6
492	Impedance studies of biosynthesized Na <sub>0.8</sub> Ni <sub>0.33</sub> Co <sub>0.33</sub> Mn <sub>0.33</sub> O <sub>2</sub> applied in an aqueous sodium-ion battery. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 11123-11134	4.5	1
491	Green Strategy-Based Synthesis of Silver Nanoparticles for Antibacterial Applications. <i>Frontiers in Nanotechnology</i> , <b>2021</b> , 3,	5.5	11
490	Deposition of CaZrO <sub>3</sub> thin films by EB-PVD: Effects of substrate on the composition, the structure, the morphology and the optical properties. <i>Surfaces and Interfaces</i> , <b>2021</b> , 25, 101259	4.1	1
489	Ultrananocrystalline diamond-like carbon (UN-DLC) assembled on epitaxial ZnO film by PLD technique and SIMS Raman Rutherford spectroscopic fingerprint investigation. <i>Journal of Raman Spectroscopy</i> , <b>2021</b> , 52, 1838	2.3	2
488	Design and Optimization of Flexible Thermoelectric Coolers for Wearable Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 081006	2	1
487	Studies on the spectrometric analysis of metallic silver nanoparticles (Ag NPs) using Basella alba leaf for the antibacterial activities. <i>Environmental Research</i> , <b>2021</b> , 199, 111274	7.9	33
486	Preparation and Characterization of Polyethylenimine Functionalized Reduced Graphene Oxide for Thermoelectric Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 081014	2	1
485	Preparation and characterization of Fe doped n-hydroxyapatite for biomedical application. <i>Surfaces and Interfaces</i> , <b>2021</b> , 25, 101185	4.1	2
484	Hydrothermal surface treatment of 434-L stainless-steel for spectra solar absorber application. <i>Infrared Physics and Technology</i> , <b>2021</b> , 117, 103848	2.7	3
483	Ultrasound-assisted wet chemical synthesis of texturized Mo/MoO <sub>3</sub> spectrally selective solar absorber coatings. <i>Thin Solid Films</i> , <b>2021</b> , 735, 138892	2.2	1
482	Degradation of Codeine Phosphate by simultaneous usage of eaq <sup>•</sup> and OH radicals in photo-redox processes: Influencing factors, energy consumption, kinetics, intermediate products and degradation pathways. <i>Optik</i> , <b>2021</b> , 243, 167415	2.5	3
481	Radiations hardness of nanocrystalline nickel under 450 keV protons. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 189, 109740	2.5	0
480	Magnetic nanocomposite of crosslinked chitosan with 4,6-diacetylresorcinol for gold immobilization (Fe <sub>3</sub> O <sub>4</sub> @CS/DAR-Au) as a catalyst for an efficient one-pot synthesis of propargylamine. <i>Materials Today Communications</i> , <b>2021</b> , 29, 102798	2.5	10
479	CdO/CdCO nanocomposite physical properties and cytotoxicity against selected breast cancer cell lines. <i>Scientific Reports</i> , <b>2021</b> , 11, 30	4.9	7
478	Covalent immobilization of laccase on Fe <sub>3</sub> O <sub>4</sub> @graphene oxide nanocomposite for biodegradation of phenolic compounds. <i>Environmental Protection Engineering</i> , <b>2021</b> , 47,	1.6	2
477	Synthesis, characterization and ab initio study of WO <sub>3</sub> nanocubes with peculiar electrochemical properties. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 1	2.3	1

476	Biogenic nanoparticles: synthesis, mechanism, characterization and applications <b>2021</b> , 27-42		4
475	Degradation of Ofloxacin Using the UV/ZnO/Iodide Process in an Integrated Photocatalytic-Biological Reactor Containing Baffles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 22440-22450	3.9	5
474	Biosynthesis and characterization of CaZrO <sub>3</sub> nanoparticles via hyphaene thebaica: effect of preparation method on morphology, electrical, and dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 10018-10030	2.1	1
473	Comparative methods for predicting cyanide pollution in artisanal small-scale gold mining catchment by using logistic regression and kriging with GIS. <i>African Journal of Science, Technology, Innovation and Development</i> , <b>2020</b> , 12, 287-295	0.7	4
472	Removal of Free Cyanide by a Green Photocatalyst ZnO Nanoparticle Synthesized via Eucalyptus globulus Leaves <b>2020</b> , 271-288		2
471	Effect of Etchant Concentration on the Optical Properties and Surface Topography of MoO <sub>3</sub> Selective Solar Absorber Thin Films. <i>MRS Advances</i> , <b>2020</b> , 5, 1133-1143	0.7	2
470	Investigation of structural and optical properties of biosynthesized Zincite (ZnO) nanoparticles (NPs) via an aqueous extract of Rosmarinus officinalis (rosemary) leaves. <i>MRS Advances</i> , <b>2020</b> , 5, 2349-2358	0.7	2
469	Bio-inspired Single Phase Montepelite CdO Nanoparticles via Natural Extract of Phoenix roebelenii Palm Leaves. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 4691-4701	3.2	5
468	The use of nickel oxide as a hole transport material in perovskite solar cell configuration: Achieving a high performance and stable device. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9839-9863	4.5	10
467	The role of polyethylene glycol on the microstructural, magnetic and specific absorption rate in thermoablation properties of Mn-Zn ferrite nanoparticles by sol-gel protocol. <i>European Polymer Journal</i> , <b>2020</b> , 132, 109739	5.2	11
466	The combination of low level laser therapy and efavirenz drastically reduces HIV infection in TZM-bl cells. <i>Biomedical Journal</i> , <b>2020</b> ,	7.1	2
465	Recent advances in metal oxide/hydroxide on three-dimensional nickel foam substrate for high performance pseudocapacitive electrodes. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 242-249	7.2	23
464	Bio-redox potential of Hyphaene thebaica in bio-fabrication of ultrafine maghemite phase iron oxide nanoparticles (FeO NPs) for therapeutic applications. <i>Materials Science and Engineering C</i> , <b>2020</b> , 112, 110890	8.3	23
463	Structural, Morphological and Biological Features of ZnO Nanoparticles Using Hyphaene thebaica (L.) Mart. Fruits. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 3241-3254	3.2	11
462	Date pits extracts assisted synthesis of magnesium oxides nanoparticles and its application towards the photocatalytic degradation of methylene blue. <i>Journal of King Saud University - Science</i> , <b>2020</b> , 32, 2767-2776	3.6	17
461	Syntheses and characterizations of GO/Mn <sub>3</sub> O <sub>4</sub> nanocomposite film electrode materials for supercapacitor applications. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 119, 107983	3.1	5
460	Enhanced electrochemical property of SILAR-deposited Mn <sub>3</sub> O <sub>4</sub> thin films decorated on graphene. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 9049-9058	5.5	5
459	Effects of low-dose irradiation on the structural, morphological, and optical properties of fluorine-doped tin oxide thin films. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 176, 109077	2.5	6



458	Effect of temperature on the morphological, structural and optical properties of electrodeposited Yb-doped ZrSe <sub>2</sub> thin films. <i>Optik</i> , <b>2020</b> , 220, 165180	2.5	1
457	Remarkable thermal conductivity enhancement in Ag-decorated graphene nanocomposites based nanofluid by laser liquid solid interaction in ethylene glycol. <i>Scientific Reports</i> , <b>2020</b> , 10, 10982	4.9	11
456	Synthesis and Characterization of Zinc Oxide Nanoparticles (ZnO NPs) in Powder and in Thin Film using Corn Husk Extract via Green Chemistry. <i>MRS Advances</i> , <b>2020</b> , 5, 1083-1093	0.7	5
455	Recent progress in nickel oxide-based electrodes for high-performance supercapacitors. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 175-181	7.2	24
454	Influence of dopant concentration on the electronic band gap energy of Yb-ZrSe <sub>2</sub> thin films for photovoltaic application via electrochemical deposition technique. <i>Materials Research Express</i> , <b>2020</b> , 7, 026420	1.7	4
453	Study of thermal conductivity of synthesized Al <sub>2</sub> O <sub>3</sub> -water nanofluid by pulsed laser ablation in liquid. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 304, 112694	6	32
452	A study on the effects of varying concentrations on the properties of ytterbium-doped cobalt selenide thin films. <i>Optical Materials</i> , <b>2020</b> , 101, 109731	3.3	10
451	Electrochemical study of Nickel Oxide (NiO) nanoparticles from cactus plant extract. <i>MRS Advances</i> , <b>2020</b> , 5, 1095-1102	0.7	4
450	Effects of swift copper (Cu <sup>2+</sup> ) ion irradiation on structural, optical and electrochemical properties of Co <sub>3</sub> O <sub>4</sub> -CuO-MnO <sub>2</sub> /GO nanocomposites powder. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 1728-1735	4.6	16
449	Promising antiviral, antimicrobial and therapeutic properties of green nanoceria. <i>Nanomedicine</i> , <b>2020</b> , 15, 467-488	5.6	28
448	Influence of C-implanted ions on the transition properties of VO <sub>2</sub> thin films. <i>MRS Advances</i> , <b>2020</b> , 5, 2139-2146	2.7	1463
447	Scattering of e <sup>-</sup> from the neon isonuclear series over the energy range 1 eV-0.5 GeV. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SHHA05	1.4	9
446	Optical, electrical and magnetic properties of copper doped electrodeposited MoO <sub>3</sub> thin films. <i>Ceramics International</i> , <b>2020</b> , 46, 10820-10828	5.1	7
445	Calcination Effect on the Photoluminescence, Optical, Structural, and Magnetic Properties of Polyvinyl Alcohol Doped ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Macromolecular Science - Physics</i> , <b>2020</b> , 59, 295-308	1.4	20
444	Conjugated NiO-ZnO/GO nanocomposite powder for applications in supercapacitor electrodes material. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3192-3202	4.5	29
443	Matrix effect impact on measuring hardness of metals bombarded by accelerated ions using laser induced breakdown spectroscopy. <i>Journal of Laser Applications</i> , <b>2020</b> , 32, 012012	2.1	3
442	Electrical Tunability of Surface Tension of Vertical Graphene Nanosheets. <i>MRS Advances</i> , <b>2020</b> , 5, 2291-2298	2.7	1463
441	On the Use of Moringa Oleifera Leaves Extract for the Biosynthesis of NiO and ZnO Nanoparticles. <i>MRS Advances</i> , <b>2020</b> , 5, 1145-1155	0.7	4

440	Bio-inspired Nickel Oxides Nanoscale Synthesis by using Peel of Citrus Sinensis. <i>MRS Advances</i> , <b>2020</b> , 5, 1157-1166	0.7	1
439	VO-based active tunable emittance thermochromic flexible coatings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2020</b> , 37, C45-C49	1.8	9
438	Optical properties of biosynthesized nanoscaled EuO for red luminescence applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2020</b> , 37, C73-C79	1.8	6
437	Modelling Nanoparticles Parameters for Antimicrobial Activity <b>2020</b> , 83-99		
436	Electrochemical properties of green synthesised Zinc oxide (ZnO) Nanoparticles. <i>MRS Advances</i> , <b>2020</b> , 5, 1103-1112	0.7	2
435	Green Synthesis of Nickel Oxide (NiO) Nanoparticles Using Spirostachys africana Bark Extract. <i>Asian Journal of Scientific Research</i> , <b>2020</b> , 13, 284-291	0.3	2
434	Comprehensive analysis of retroreflection in Fabricius, 1792 wings. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 198-201	2	
433	Modification in properties of Ni-NWs meshes by Ar <sup>+</sup> ions beam irradiation. <i>Materials Research Express</i> , <b>2020</b> , 7, 065008	1.7	2
432	Anderson localization of IR light in 1D nanosystems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2020</b> , 37, C111-C117	1.8	2
431	Photocatalytic oxygen evolution reaction for energy conversion and storage of functional nanomaterials <b>2020</b> , 55-81		2
430	Electrochemical properties of Euphorbia pulcherrima mediated copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 244, 122714	4.4	37
429	Bio-inspired iron oxide nanoparticles using Psidium guajava aqueous extract for antibacterial activity. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	33
428	Zea mays lea silk extract mediated synthesis of nickel oxide nanoparticles as positive electrode material for asymmetric supercapattery. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 822, 153581	5.7	42
427	Biomass mediated multi layered NaNi <sub>x</sub> Co <sub>1-x</sub> O <sub>2</sub> (x = 0.4) and $\beta$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles for aqueous sodium ion battery. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 858, 113809	4.1	5
426	High performance of pyrochlore like Sm <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> heterojunction photocatalyst for efficient degradation of rhodamine-B dye with waste water under visible light irradiation. <i>Journal of King Saud University - Science</i> , <b>2020</b> , 32, 1516-1522	3.6	102
425	The effect of indium doping on photovoltaic properties of chemically synthesized zinc oxide thin-film electrodes. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 313-320	2.6	4
424	Biopolymeric nanocomposite scaffolds for bone tissue engineering applications A review. <i>Journal of Drug Delivery Science and Technology</i> , <b>2020</b> , 55, 101452	4.5	52
423	Effect of process parameters on the phase transition property of molybdenum-doped vanadium dioxide nanorods. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	1



422	A study on titanium dioxide nanoparticles synthesized from titanium isopropoxide under SILAR-induced gel method: Transition from anatase to rutile structure. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 112, 107705	3.1	24
421	Bio-inspired encapsulation and functionalization of iron oxide nanoparticles for biomedical applications. <i>European Polymer Journal</i> , <b>2020</b> , 122, 109371	5.2	66
420	Electrical resistivity, magnetic properties and thermoelectric power factor of the polycrystalline compound CeCu <sub>4</sub> In: Effect of La dilution. <i>Surfaces and Interfaces</i> , <b>2020</b> , 18, 100413	4.1	2
419	Cd doped Ba (NO <sub>3</sub> ) <sub>2</sub> nanoparticle as broadband solar absorber in thin film organic solar cell. <i>Polymer Composites</i> , <b>2020</b> , 41, 1369-1375	3	1
418	Optical absorption and electron dynamics in reduced graphene oxide-nanostructured porphyrin for active solar cell layers. <i>Materials Today: Proceedings</i> , <b>2020</b> , 20, 91-95	1.4	1
417	8.0 MeV copper ion (Cu <sup>++</sup> ) irradiation-induced effects on structural, electrical, optical and electrochemical properties of Co <sub>3</sub> O <sub>4</sub> -NiO-ZnO/GO nanowires. <i>Materials Science for Energy Technologies</i> , <b>2020</b> , 3, 193-200	5.2	14
416	Optical and photoluminescence performance of electrodeposited arsenic selenide thin film doped with erbium ion. <i>Optical Materials</i> , <b>2020</b> , 99, 109556	3.3	3
415	Phyto-fabricated CrO nanoparticle for multifunctional biomedical applications. <i>Nanomedicine</i> , <b>2020</b> , 15, 1653-1669	5.6	12
414	Investigation of electrochemical performance, optical and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles prepared by a green chemistry method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 119, 114002	3	19
413	Green synthesis of CuFeS <sub>2</sub> nanoparticles using mimosa leaves extract for photocatalysis and supercapacitor applications. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	11
412	Investigation of structural and electrical properties of lithium cobalt oxide nanoparticles for optoelectronic applications. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100582	4.1	9
411	Performance Evaluation of Graphene Oxide Based Co <sub>3</sub> O <sub>4</sub> @GO, MnO <sub>2</sub> @GO and Co <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> @GO Electrodes for Supercapacitors. <i>Electroanalysis</i> , <b>2020</b> , 32, 2786-2794	3	22
410	Structural and electrical properties of Mg-doped vanadium dioxide thin films via room-temperature ion implantation. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100590	4.1	4
409	Effect of Etchant Concentration on the Optical Properties and Surface Topography of MoO <sub>3</sub> Selective Solar Absorber Thin Films - CORRIGENDUM. <i>MRS Advances</i> , <b>2020</b> , 5, 2249-2249	0.7	
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407	Temperature effect on CuO nanoparticles: Antimicrobial activity towards bacterial strains. <i>Surfaces and Interfaces</i> , <b>2020</b> , 21, 100761	4.1	9
406	First principle study of silver nanoparticle interactions with antimalarial drugs extracted from plant. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 331	2.3	5
405	Thermal conductivity enhancement in gold decorated graphene nanosheets in ethylene glycol based nanofluid. <i>Scientific Reports</i> , <b>2020</b> , 10, 14730	4.9	5

404	Impact of Cu doping on ZnO nanoparticles phyto-chemically synthesized for improved antibacterial and photocatalytic activities. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	14
403	Cobalt Metal ion Doped Cerium Oxide (Co-CeO <sub>2</sub> ) Nanoparticles Effect Enhanced Photocatalytic Activity. <i>MRS Advances</i> , <b>2020</b> , 5, 2503-2515	0.7	5
402	Synthesis and Studies of Electro-Deposited Yttrium Arsenic Selenide Nanofilms for Opto-Electronic Applications. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
401	Bio-synthesized P2-Na <sub>0.57</sub> CoO <sub>2</sub> nanoparticles as cathode for aqueous sodium ion battery. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 878, 114600	4.1	3
400	Method to control the optical properties: Band gap energy of mixed halide Organolead perovskites. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 988-997	5.9	12
399	Bioinspired synthesis of pure massicot phase lead oxide nanoparticles and assessment of their biocompatibility, cytotoxicity and in-vitro biological properties. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 916-931	5.9	31
398	Physical properties, biological applications and biocompatibility studies on biosynthesized single phase cobalt oxide (Co <sub>3</sub> O <sub>4</sub> ) nanoparticles via Sageretia thea (Osbeck.). <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 606-619	5.9	94
397	Biosynthesized CuO nano-platelets: Physical properties & enhanced thermal conductivity nanofluidics. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 160-170	5.9	59
396	A study on solution deposited CuSCN thin films: Structural, electrochemical, optical properties. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 346-356	5.9	18
395	Bandgap engineering of TiO <sub>2</sub> nanoparticles through MeV Cu ions irradiation. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 3344-3350	5.9	9
394	Biogenic synthesis of iron oxide nanorods using Moringa oleifera leaf extract for antibacterial applications. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 305-315	3.3	92
393	Selective crystallographic distortions induced by chromium doping in 1-D vanadium dioxide nanobelts. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 250, 122749	4.4	1
392	Effects of alkali and transition metal-doped TiO hole blocking layers on the perovskite solar cells obtained by a two-step sequential deposition method in air and under vacuum.. <i>RSC Advances</i> , <b>2020</b> , 10, 13139-13148	3.7	9
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389	Biosynthesis of iron oxide nanoparticles via a composite of Psidium guajava-Moringa oleifera and their antibacterial and photocatalytic study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2019</b> , 199, 111601	6.7	60
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387	Green synthesis of ZnO nanoparticle using Prunus dulcis (Almond Gum) for antimicrobial and supercapacitor applications. <i>Surfaces and Interfaces</i> , <b>2019</b> , 17, 100376	4.1	51

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375	Biosynthesis of NiO nanoparticles for photodegradation of free cyanide solutions under ultraviolet light. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 134, 133-140	3.9	42
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303	Theoretical study of electromagnetic transport in Lepidoptera wing scales. <i>Heliyon</i> , <b>2018</b> , 4, e00502	3.6	2
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292	Equilibrium and kinetic studies of the adsorption of acid blue 9 and Safranin O from aqueous solutions by MgO decorated FLG coated Fuller's earth. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 123, 43-51	3.9	111
291	Effect of substrate temperature on thermochromic vanadium dioxide thin films sputtered from vanadium target <b>2018</b> ,		3
290	Green synthesis of cobalt (II, III) oxide nanoparticles using Moringa Oleifera natural extract as high electrochemical electrode for supercapacitors <b>2018</b> ,		16
289	Photocatalytic effect of green synthesised CuO nanoparticles on selected environmental pollutants and pathogens <b>2018</b> ,		3
288	Bioinspired shape controlled antiferromagnetic Co <sub>3</sub> O <sub>4</sub> with prism like-anchored octahedron morphology: A facile green synthesis using Manihot esculenta Crantz extract. <i>Science and Technology of Materials</i> , <b>2018</b> , 30, 92-98		9
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286	Direct Electrodeposition of Gold Nanoparticles on Glassy Carbon Electrode for Selective Determination Catechol in the Presence of Hydroquinone. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 4544-4550	1.3	15
285	Structural, Optical, Morphological and Microbial Studies on SnO <sub>2</sub> Nanoparticles Prepared by Co-Precipitation Method. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3511-3517	1.3	47
284	In vitro cholinesterase enzymes inhibitory potential and in silico molecular docking studies of biogenic metal oxides nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> , <b>2018</b> , 48, 441-448	1.2	31
283	In vitro cytocompatibility of chitosan/PVA/methylcellulose [Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. <i>Applied Surface Science</i> , <b>2018</b> , 449, 574-583	6.7	37
282	Growth and characterization of spectrally selective Cr <sub>2</sub> O <sub>3</sub> /Cr/Cr <sub>2</sub> O <sub>3</sub> multilayered solar absorber by e-beam evaporation. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 734, 204-209	5.7	29
281	SYNTHESIS AND CHARACTERIZATION OF ZnS THIN FILMS PREPARED BY RESISTIVE HEATING TECHNIQUE. <i>Surface Review and Letters</i> , <b>2018</b> , 25, 1850080	1.1	1
280	A study of the critical minima and spin polarization in the elastic electron scattering by the lead atom. <i>Journal of Physics Communications</i> , <b>2018</b> , 2, 125013	1.2	12
279	Optimised synthesis of ZnO-nano-fertiliser through green chemistry: boosted growth dynamics of economically important. <i>IET Nanobiotechnology</i> , <b>2018</b> , 12, 405-411	2	9

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275	Evaluation on La <sub>2</sub> O <sub>3</sub> garlanded ceria heterostructured binary metal oxide nanoplates for UV/visible light induced removal of organic dye from urban wastewater. <i>South African Journal of Chemical Engineering</i> , <b>2018</b> , 26, 49-60	3.2	106
274	Electrochemical supercapacitive properties of SILAR-Deposited Mn <sub>3</sub> O <sub>4</sub> electrodes. <i>Vacuum</i> , <b>2018</b> , 158, 206-214	3.7	25
273	Comparative study of flat and cylindrically-shaped selective solar absorber for CSP application. <i>MRS Advances</i> , <b>2018</b> , 3, 2251-2260	0.7	
272	Recent Progress in Nanostructured Zinc Oxide Grown on Fabric for Wearable Thermoelectric Power Generator with UV Shielding <b>2018</b> ,		1
271	pH and concentration effect on the optical absorption properties of Sn(IV) tetrakis (4-pyridyl) porphyrin functionalized graphene oxide.. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 984, 012004	0.3	2
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269	Optical, Magnetic and Photocatalytic Activity Studies of Li, Mg and Sr Doped and Undoped Zinc Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 5441-5447	1.3	43
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266	Laser-Induced Breakdown Spectroscopy (LIBS) on Geological Samples: Compositional Differentiation. <i>MRS Advances</i> , <b>2018</b> , 3, 1969-1983	0.7	5
265	Electrocatalytic effect of polyvinyl pyrrolidone capped platinum nanoparticles electrodeposited on platinum electrode for ammonia oxidation <b>2018</b> ,		1
264	Nanoporous copper-cobalt mixed oxide nanorod bundles as high performance pseudocapacitive electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 787, 24-35	4.1	29
263	Rapid microwave-assisted growth of silver nanoparticles on 3D graphene networks for supercapacitor application. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 493, 130-137	9.3	42
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