

Malek Maaza

List of Publications by Year in descending order

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571
papers

21,348
citations

5574

82
h-index

19749

117
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576
all docs

576
docs citations

576
times ranked

15313
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO nanoparticles via <i>Moringa oleifera</i> green synthesis: Physical properties & mechanism of formation. <i>Applied Surface Science</i> , 2017, 406, 339-347.	6.1	458
2	Green synthesis of NiO nanoparticles using <i>Moringa oleifera</i> extract and their biomedical applications: Cytotoxicity effect of nanoparticles against HT-29 cancer cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 352-360.	3.8	353
3	Green synthesis of ZnO nanoparticles via <i>Agathosma betulina</i> natural extract. <i>Materials Letters</i> , 2015, 161, 124-127.	2.6	298
4	Strain and grain size of TiO ₂ nanoparticles from TEM, Raman spectroscopy and XRD: The revisiting of the Williamson-Hall plot method. <i>Results in Physics</i> , 2018, 9, 628-635.	4.1	285
5	Green synthesis of Co ₃ O ₄ nanoparticles via <i>Aspalathus linearis</i> : Physical properties. <i>Green Chemistry Letters and Reviews</i> , 2015, 8, 30-36.	4.7	259
6	Synthesis of silver nanoparticles (Ag NPs) for anticancer activities (MCF 7 breast and A549 lung cell) <i>Tj ETQqO O O rgBT /Overlock 10 Tf 5</i> <i>Biology</i> , 2017, 167, 282-289.	3.8	234
7	Rare earth element (REE) lanthanum doped zinc oxide (La: ZnO) nanomaterials: Synthesis structural optical and antibacterial studies. <i>Journal of Alloys and Compounds</i> , 2017, 723, 1155-1161.	5.5	229
8	In vitro cytotoxicity effect and antibacterial performance of human lung epithelial cells A549 activity of Zinc oxide doped TiO ₂ nanocrystals: Investigation of bio-medical application by chemical method. <i>Materials Science and Engineering C</i> , 2017, 74, 325-333.	7.3	223
9	Evaluation on the heterostructured CeO ₂ /Y ₂ O ₃ binary metal oxide nanocomposites for UV/Vis light induced photocatalytic degradation of Rhodamine - B dye for textile engineering application. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1324-1337.	5.5	222
10	Elucidation of photocatalysis, photoluminescence and antibacterial studies of ZnO thin films by spin coating method. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 466-475.	3.8	218
11	Single phase Bunsenite NiO nanoparticles green synthesis by <i>Agathosma betulina</i> natural extract. <i>Journal of Alloys and Compounds</i> , 2016, 657, 655-661.	5.5	206
12	Synthesis and characterization studies of NiO nanorods for enhancing solar cell efficiency using photon upconversion materials. <i>Ceramics International</i> , 2016, 42, 8385-8394.	4.8	195
13	Synthesis of lamp phosphors: facile combustion approach. <i>Journal of Alloys and Compounds</i> , 2005, 393, 81-92.	5.5	192
14	The influence of electrospinning parameters on the structural morphology and diameter of electrospun nanofibers. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3130-3136.	2.6	187
15	Biosynthesis of iron oxide (Fe ₂ O ₃) nanoparticles via aqueous extracts of <i>Sageretia thea</i> (Osbeck.) and their pharmacognostic properties. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 186-201.	4.7	184
16	Green synthesis of ZnO nanoparticles by <i>Aspalathus linearis</i> : Structural & optical properties. <i>Journal of Alloys and Compounds</i> , 2015, 646, 425-430.	5.5	181
17	Photocatalytic degradation effect of malachite green and catalytic hydrogenation by UV-illuminated CeO ₂ /CdO multilayered nanoplatelet arrays: Investigation of antifungal and antimicrobial activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 169, 110-123.	3.8	170
18	Thermally tunable optical constants of vanadium dioxide thin films measured by spectroscopic ellipsometry. <i>Optics Communications</i> , 2011, 284, 807-812.	2.1	168

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19	Nanoparticles green synthesis by Hibiscus Sabdariffa flower extract: Main physical properties. Journal of Alloys and Compounds, 2015, 647, 392-396.	5.5	165
20	Biogenic synthesis of iron oxide nanorods using Moringa oleifera leaf extract for antibacterial applications. Applied Nanoscience (Switzerland), 2020, 10, 305-315.	3.1	162
21	Green synthesis of novel zinc iron oxide (ZnFe ₂ O ₄) nanocomposite via Moringa Oleifera natural extract for electrochemical applications. Applied Surface Science, 2018, 446, 66-73.	6.1	156
22	Photocatalytic decomposition effect of erbium doped cerium oxide nanostructures driven by visible light irradiation: Investigation of cytotoxicity, antibacterial growth inhibition using catalyst. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 275-282.	3.8	155
23	ZnO nanoparticles prepared via a green synthesis approach: Physical properties, photocatalytic and antibacterial activity. Journal of Physics and Chemistry of Solids, 2022, 160, 110313.	4.0	155
24	Effect of grain size on structural transitions in anataseTiO ₂ : A Raman spectroscopy study at high pressure. Physical Review B, 2004, 70, .	3.2	154
25	Antibacterial, magnetic, optical and humidity sensor studies of Fe^{2+} -CoMoO ₄ - Co ₃ O ₄ nanocomposites and its synthesis and characterization. Journal of Photochemistry and Photobiology B: Biology, 2018, 183, 233-241.	3.8	152
26	Solution processing of CuSe quantum dots: Photocatalytic activity under RhB for UV and visible-light solar irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 210, 1-9.	3.5	151
27	High performance of pyrochlore like Sm ₂ Ti ₂ O ₇ heterojunction photocatalyst for efficient degradation of rhodamine-B dye with waste water under visible light irradiation. Journal of King Saud University - Science, 2020, 32, 1516-1522.	3.5	150
28	<i>Sageretia thea</i> (Osbeck.) modulated biosynthesis of NiO nanoparticles and their <i>in vitro</i> pharmacognostic, antioxidant and cytotoxic potential. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 838-852.	2.8	144
29	Physical properties of CdO nanoparticles synthesized by green chemistry via Hibiscus Sabdariffa flower extract. Journal of Alloys and Compounds, 2016, 655, 314-320.	5.5	143
30	Acalypha indica mediated green synthesis of ZnO nanostructures under differential thermal treatment: Effect on textile coating, hydrophobicity, UV resistance, and antibacterial activity. Advanced Powder Technology, 2017, 28, 3184-3194.	4.1	143
31	Synthesis and Characterization of Graphene Thin Films by Chemical Reduction of Exfoliated and Intercalated Graphite Oxide. Journal of Chemistry, 2013, 2013, 1-6.	1.9	142
32	Biosynthesis of iron oxide nanoparticles via a composite of Psidium guajava-Moringa oleifera and their antibacterial and photocatalytic study. Journal of Photochemistry and Photobiology B: Biology, 2019, 199, 111601.	3.8	142
33	Green synthesis of Montepelite CdO nanoparticles by Agathosma betulina natural extract. Journal of Alloys and Compounds, 2015, 646, 1043-1048.	5.5	140
34	Green synthesis of nickel oxide, palladium and palladium oxide synthesized via Aspalathus linearis natural extracts: physical properties & mechanism of formation. Applied Surface Science, 2018, 446, 266-272.	6.1	140
35	Synthesis and characterization of ZnO-CuO nanocomposites powder by modified perfume spray pyrolysis method and its antimicrobial investigation. Journal of Semiconductors, 2018, 39, 033001.	3.7	138
36	Physical properties, biological applications and biocompatibility studies on biosynthesized single phase cobalt oxide (Co ₃ O ₄) nanoparticles via Sageretia thea (Osbeck.). Arabian Journal of Chemistry, 2020, 13, 606-619.	4.9	138

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37	Physical & enhanced photocatalytic properties of green synthesized SnO ₂ nanoparticles via <i>Aspalathus linearis</i> . <i>Journal of Alloys and Compounds</i> , 2016, 681, 561-570.	5.5	136
38	High performance symmetric supercapacitor based on zinc hydroxychloride nanosheets and 3D graphene-nickel foam composite. <i>Applied Surface Science</i> , 2017, 405, 329-336.	6.1	133
39	Antiproliferative effects on human lung cell lines A549 activity of cadmium selenide nanoparticles extracted from cytotoxic effects: Investigation of bio-electronic application. <i>Materials Science and Engineering C</i> , 2017, 76, 1012-1025.	7.3	133
40	<i>Sageretia thea</i> (Osbeck.) mediated synthesis of zinc oxide nanoparticles and its biological applications. <i>Nanomedicine</i> , 2017, 12, 1767-1789.	3.3	133
41	Bio-inspired encapsulation and functionalization of iron oxide nanoparticles for biomedical applications. <i>European Polymer Journal</i> , 2020, 122, 109371.	5.4	133
42	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016, 16, 2477-2483.	4.7	129
43	Photocatalytic performance and antimicrobial activities of HAp-TiO ₂ nanocomposite thin films by sol-gel method. <i>Surfaces and Interfaces</i> , 2017, 6, 247-255.	3.0	128
44	Bioreduction potentials of dried root of <i>Zingiber officinale</i> for a simple green synthesis of silver nanoparticles: Antibacterial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 177, 62-68.	3.8	128
45	Photocatalytic activity of ZrO ₂ doped lead dioxide nanocomposites: Investigation of structural and optical microscopy of RhB organic dye. <i>Applied Surface Science</i> , 2017, 421, 234-239.	6.1	128
46	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> , 2018, 123, 43-51.	4.0	127
47	Greener synthesis of ZnO and Ag-ZnO nanoparticles using <i>Silybum marianum</i> for diverse biomedical applications. <i>Nanomedicine</i> , 2019, 14, 655-673.	3.3	127
48	Evaluation on La ₂ O ₃ 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> , 2018, 26, 49-60.	2.4	124
49	Eco-friendly synthesis, characterization, in vitro and in vivo anti-inflammatory activity of silver nanoparticle-mediated <i>Selaginella myosurus</i> aqueous extract. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 8537-8548.	6.7	122
50	Sm ₂ O ₃ nanoparticles green synthesis via <i>Callistemon viminalis</i> ' extract. <i>Journal of Alloys and Compounds</i> , 2015, 650, 357-362.	5.5	121
51	Antioxidant and Photocatalytic Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver Nanoparticles Using <i>Passiflora edulis f. flavicarpa</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2640-2648.	0.9	121
52	Biosynthesized CuO nano-platelets: Physical properties & enhanced thermal conductivity nanofluidics. <i>Arabian Journal of Chemistry</i> , 2020, 13, 160-170.	4.9	121
53	Punicalagin Green Functionalized Cu/Cu ₂ O/ZnO/CuO Nanocomposite for Potential Electrochemical Transducer and Catalyt. <i>Nanoscale Research Letters</i> , 2016, 11, 386.	5.7	118
54	Industrial textile effluent treatment and antibacterial effectiveness of <i>Zea mays</i> L. Dry husk mediated bio-synthesized copper oxide nanoparticles. <i>Journal of Hazardous Materials</i> , 2019, 375, 281-289.	12.4	117

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55	Single-phase Cr^{2+} - Cr^{3+} nanoparticles green synthesis using <i>Callistemon viminalis</i> red flower extract. <i>Green Chemistry Letters and Reviews</i> , 2016, 9, 85-90.	4.7	116
56	An electrochemically active green synthesized polycrystalline NiO/MgO catalyst: Use in photo-catalytic applications. <i>Materials Research Bulletin</i> , 2018, 97, 457-465.	5.2	116
57	A comparative study on the morphological features of highly ordered MgO:AgO nanocube arrays prepared via a hydrothermal method. <i>RSC Advances</i> , 2015, 5, 82421-82428.	3.6	110
58	ZnO nano-discs by lyophilization process: Size effects on their intrinsic luminescence. <i>Journal of Alloys and Compounds</i> , 2016, 656, 758-763.	5.5	107
59	Stalling behaviour of chloride ions: A non-enzymatic electrochemical detection of Endosulfan using CuO interface. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 100-106.	7.8	107
60	Nanoflower rod wire-like structures of dual metal (Al and Cr) doped ZnO thin films: Structural, optical and electronic properties. <i>Materials Letters</i> , 2014, 131, 225-228.	2.6	105
61	Improved photocatalytic decomposition of aqueous Rhodamine-B by solar light illuminated hierarchical yttria nanosphere decorated ceria nanorods. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2898-2909.	5.8	104
62	Photoluminescence of well-aligned ZnO doped CeO ₂ nanoplatelets by a solvothermal route. <i>Materials Letters</i> , 2016, 183, 351-354.	2.6	103
63	Optical limiting in pulsed laser deposited VO ₂ nanostructures. <i>Optics Communications</i> , 2012, 285, 1190-1193.	2.1	102
64	VO ₂ nanostructures based chemiresistors for low power energy consumption hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8147-8157.	7.1	101
65	Synthesis, characterization and gas-sensing properties of SILAR deposited ZnO-CdO nano-composite thin film. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 671-678.	7.8	101
66	Biopolymeric nanocomposite scaffolds for bone tissue engineering applications – A review. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 55, 101452.	3.0	99
67	White photoluminescence from a grown ZnO nanorods/graphene hybrid nanostructure. <i>Optical Materials</i> , 2012, 34, 1320-1326.	3.6	97
68	Synthesis, characterization, and growth mechanism of Cr^{2+} - Cr^{3+} monodispersed particles. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 714-718.	4.0	95
69	Pt-Al ₂ O ₃ nanocoatings for high temperature concentrated solar thermal power applications. <i>Physica B: Condensed Matter</i> , 2012, 407, 1634-1637.	2.7	95
70	Biosynthesis of pure hematite phase magnetic iron oxide nanoparticles using floral extracts of <i>Callistemon viminalis</i> (bottlebrush): their physical properties and novel biological applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 693-707.	2.8	93
71	Biogenic synthesis and antibacterial activity of controlled silver nanoparticles using an extract of <i>Congronema Latifolium</i> . <i>Materials Chemistry and Physics</i> , 2019, 237, 121859.	4.0	93
72	Nonlinear optical properties of natural laccaic acid dye studied using Z-scan technique. <i>Optical Materials</i> , 2015, 46, 270-275.	3.6	91

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73	Studies on structural and optical properties of ZnO ₂ nanopowder for opto-electronic applications. <i>Journal of Alloys and Compounds</i> , 2017, 694, 556-559.	5.5	91
74	Simonkolleite nano-platelets: Synthesis and temperature effect on hydrogen gas sensing properties. <i>Applied Surface Science</i> , 2012, 258, 7839-7843.	6.1	88
75	ZnO doped single wall carbon nanotube as an active medium for gas sensor and solar absorber. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 147-158.	2.2	88
76	Enhanced visible photoluminescent and structural properties of ZnO/KIT-6 nanoporous materials for white light emitting diode (w-LED) application. <i>Journal of Alloys and Compounds</i> , 2015, 651, 479-482.	5.5	87
77	Green synthesis of ZnO nanoparticle using <i>Prunus dulcis</i> (Almond Gum) for antimicrobial and supercapacitor applications. <i>Surfaces and Interfaces</i> , 2019, 17, 100376.	3.0	87
78	<i>Zea mays</i> leaf silk extract mediated synthesis of nickel oxide nanoparticles as positive electrode material for asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153581.	5.5	87
79	Structural and optical properties of nano-structured tungsten-doped ZnO thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2009, 255, 4153-4158.	6.1	86
80	Structural, optical and magnetic investigation of Gd implanted CeO ₂ nanocrystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 409, 147-152.	1.4	86
81	Surface Plasmon Resonance Tunability in Au [~] VO ₂ Thermo-chromic Nano-composites. <i>Gold Bulletin</i> , 2005, 38, 100-106.	2.7	85
82	Thermal induced tunability of surface plasmon resonance in Au [~] VO ₂ nano-photonics. <i>Optics Communications</i> , 2005, 254, 188-195.	2.1	84
83	Hybrid nanostructured thin-films by PLD for enhanced field emission performance for radiation micro-nano dosimetry applications. <i>Journal of Alloys and Compounds</i> , 2015, 647, 141-145.	5.5	83
84	Synthesis and characterization studies of MgO:CuO nanocrystals by wet-chemical method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 405-409.	3.9	82
85	Optical properties of Ag [~] TiO ₂ nanocermet films prepared by cosputtering and multilayer deposition techniques. <i>Applied Optics</i> , 2000, 39, 2745.	2.1	81
86	Facile Synthesis of Nanosheet-like CuO Film and its Potential Application as a High-Performance Pseudocapacitor Electrode. <i>Electrochimica Acta</i> , 2016, 198, 220-230.	5.2	77
87	Well-Aligned Graphene Oxide Nanosheets Decorated with Zinc Oxide Nanocrystals for High Performance Photocatalytic Application. <i>International Journal of Nanoscience</i> , 2015, 14, 1550007.	0.7	76
88	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 166-175.	4.7	76
89	Investigation on the structural properties of CeO ₂ nanofibers via CTAB surfactant. <i>Materials Letters</i> , 2015, 160, 61-63.	2.6	75
90	Influence of PVA, PVP and PEG doping on the optical, structural, morphological and magnetic properties of zinc ferrite nanoparticles produced by thermal method. <i>Physica B: Condensed Matter</i> , 2019, 571, 130-136.	2.7	74

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91	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> , 2020, 13, 916-931.	4.9	74
92	Preparation, characterization and properties of sputtered electrochromic and thermochromic devices. <i>Surface and Coatings Technology</i> , 1998, 98, 1477-1482.	4.8	73
93	Direct production of thermochromic VO ₂ thin film coatings by pulsed laser ablation. <i>Optical Materials</i> , 2000, 15, 41-45.	3.6	72
94	Synthesis and analytical applications of photoluminescent carbon nanosheet by exfoliation of graphite oxide without purification. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13080-13085.	2.2	72
95	Electrochromic and electrochemical supercapacitive properties of Room Temperature PVP capped Ni(OH) ₂ /NiO Thin Films. <i>Electrochimica Acta</i> , 2015, 171, 128-141.	5.2	70
96	Synthesis of CdS flower-like hierarchical microspheres as electrode material for electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2015, 648, 559-563.	5.5	69
97	Studies on the spectrometric analysis of metallic silver nanoparticles (Ag NPs) using <i>Basella alba</i> leaf for the antibacterial activities. <i>Environmental Research</i> , 2021, 199, 111274.	7.5	69
98	Structural, Optical, Morphological and Microbial Studies on SnO ₂ Nanoparticles Prepared by Co-Precipitation Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3511-3517.	0.9	68
99	Bio-inspired iron oxide nanoparticles using <i>Psidium guajava</i> aqueous extract for antibacterial activity. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	68
100	Electrochemical properties of <i>Euphorbia pulcherrima</i> mediated copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , 2020, 244, 122714.	4.0	68
101	Green synthesis of zinc tin oxide (ZnSnO ₃) nanoparticles using <i>Aspalathus Linearis</i> natural extracts: Structural, morphological, optical and electrochemistry study. <i>Applied Surface Science</i> , 2018, 446, 250-257.	6.1	67
102	Thermochromic VO ₂ thin films synthesized by rf-inverted cylindrical magnetron sputtering. <i>Applied Surface Science</i> , 2008, 254, 3959-3963.	6.1	65
103	Submicronic VO ₂ "PVP composites coatings for smart windows applications and solar heat management. <i>Solar Energy</i> , 2014, 107, 758-769.	6.1	65
104	Recent advances in metal oxide/hydroxide on three-dimensional nickel foam substrate for high performance pseudocapacitive electrodes. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 242-249.	4.8	63
105	Recent progress in nickel oxide-based electrodes for high-performance supercapacitors. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 175-181.	4.8	63
106	Thermochromic nanocrystalline Au"VO ₂ composite thin films prepared by radiofrequency inverted cylindrical magnetron sputtering. <i>Thin Solid Films</i> , 2010, 518, 1641-1647.	1.8	62
107	Biosynthesis of NiO nanoparticles for photodegradation of free cyanide solutions under ultraviolet light. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 134, 133-140.	4.0	62
108	Synthesis and characterizations of rutile-TiO ₂ nanoparticles derived from chitin for potential photocatalytic applications. <i>Vacuum</i> , 2019, 161, 49-54.	3.5	61

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109	Functional nanostructured oxides. <i>Vacuum</i> , 2015, 114, 172-187.	3.5	60
110	Biosynthesis of silver nanoparticles using bitter leave (<i>Veronica amygdalina</i>) for antibacterial activities. <i>Surfaces and Interfaces</i> , 2019, 17, 100359.	3.0	60
111	Structural, optical and morphological properties of post-growth calcined TiO ₂ nanopowder for opto-electronic device application: Ex-situ studies. <i>Journal of Alloys and Compounds</i> , 2016, 671, 486-492.	5.5	58
112	Conjugated NiO@ZnO/GO nanocomposite powder for applications in supercapacitor electrodes material. <i>International Journal of Energy Research</i> , 2020, 44, 3192-3202.	4.5	57
113	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. <i>Journal of Alloys and Compounds</i> , 2018, 748, 216-222.	5.5	56
114	Study of thermal conductivity of synthesized Al ₂ O ₃ -water nanofluid by pulsed laser ablation in liquid. <i>Journal of Molecular Liquids</i> , 2020, 304, 112694.	4.9	56
115	Promising antiviral, antimicrobial and therapeutic properties of green nanoceria. <i>Nanomedicine</i> , 2020, 15, 467-488.	3.3	56
116	Combustion synthesis and luminescent properties of Eu ³⁺ -activated cheap red phosphors. <i>Journal of Alloys and Compounds</i> , 2005, 395, 132-134.	5.5	55
117	Rapid microwave-assisted growth of silver nanoparticles on 3D graphene networks for supercapacitor application. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 130-137.	9.4	55
118	In vitro cytocompatibility of chitosan/PVA/methylcellulose “ Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. <i>Applied Surface Science</i> , 2018, 449, 574-583.	6.1	55
119	Optical, Magnetic and Photocatalytic Activity Studies of Li, Mg and Sr Doped and Undoped Zinc Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5441-5447.	0.9	55
120	Maize (<i>Zea mays</i> L.) fresh husk mediated biosynthesis of copper oxides: Potentials for pseudo capacitive energy storage. <i>Electrochimica Acta</i> , 2019, 301, 436-448.	5.2	55
121	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> , 2021, 187, 110110.	3.5	55
122	Green palladium and palladium oxide nanoparticles synthesized via <i>Aspalathus linearis</i> natural extract. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3632-3638.	5.5	54
123	Incubation period induced biogenic synthesis of PEG enhanced <i>Moringa oleifera</i> silver nanocapsules and its antibacterial activity. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	54
124	Thermal stability of electron beam evaporated Al _x O _y /Pt/Al _x O _y multilayer solar absorber coatings. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 473-480.	6.2	53
125	In vitro cholinesterase enzymes inhibitory potential and in silico molecular docking studies of biogenic metal oxides nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> , 2018, 48, 441-448.	1.6	53
126	Microstructural, optical properties and thermal stability of MgO/Zr/MgO multilayered selective solar absorber coatings. <i>Solar Energy</i> , 2015, 111, 357-363.	6.1	52

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127	Thermally driven sign switch of static dielectric constant of VO ₂ thin film. <i>Optical Materials</i> , 2016, 54, 165-169.	3.6	52
128	Synthesis and Substrate-Aided Alignment of Porphyrinated Poly(ethylene oxide) (PEO) Electrospun Nanofibers. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2010, 59, 818-827.	3.4	51
129	RuO ₂ nanoparticles by a novel green process via <i>Aspalathus linearis</i> natural extract & their water splitting response. <i>Journal of Alloys and Compounds</i> , 2016, 662, 283-289.	5.5	51
130	Influence of pH and annealing on the optical and electrochemical properties of cobalt (III) oxide (Co ₃ O ₄) thin films. <i>Surfaces and Interfaces</i> , 2019, 16, 114-119.	3.0	51
131	Magnetic behavior of biosynthesized Co ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 251-255.	2.3	50
132	<i>Daphne mucronata</i> -mediated phytosynthesis of silver nanoparticles and their novel biological applications, compatibility and toxicity studies. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 318-333.	4.7	50
133	Physical origin of third order non-linear optical response of porphyrin nanorods. <i>Materials Chemistry and Physics</i> , 2012, 134, 646-650.	4.0	49
134	Pulsed laser deposited Cr ₂ O ₃ nanostructured thin film on graphene as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 637, 219-225.	5.5	49
135	Optimization and preparation of Pt-Al ₂ O ₃ double cermet as selective solar absorber coatings. <i>Journal of Alloys and Compounds</i> , 2016, 664, 161-168.	5.5	49
136	Zinc oxide doped single wall carbon nanotubes in hole transport buffer layer. <i>Journal of Alloys and Compounds</i> , 2017, 706, 344-350.	5.5	49
137	Novel polyvinyl alcohol polymer based nanostructure with ferrites co-doped with nickel and cobalt ions for magneto-sensor application. <i>Polymer International</i> , 2016, 65, 1482-1485.	3.1	48
138	Bio-redox potential of <i>Hyphaene thebaica</i> in bio-fabrication of ultrafine maghemite phase iron oxide nanoparticles (Fe ₂ O ₃ NPs) for therapeutic applications. <i>Materials Science and Engineering C</i> , 2020, 112, 110890.	7.3	48
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