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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	ZnO nanoparticles via <i>Moringa oleifera</i> green synthesis: Physical properties & mechanism of formation. <i>Applied Surface Science</i> , 2017 , 406, 339-347	6.7	275
546	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	6.7	241
545	Green synthesis of ZnO nanoparticles via <i>Agathosma betulina</i> natural extract. <i>Materials Letters</i> , 2015 , 161, 124-127	3.3	209
544	In vitro cytotoxicity effect and antibacterial performance of human lung epithelial cells A549 activity of Zinc oxide doped TiO nanocrystals: Investigation of bio-medical application by chemical method. <i>Materials Science and Engineering C</i> , 2017 , 74, 325-333	8.3	201
543	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	180
542	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	6.7	179
541	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	5.7	174
540	Synthesis of lamp phosphors: facile combustion approach. <i>Journal of Alloys and Compounds</i> , 2005 , 393, 81-92	5.7	172
539	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	5.7	166
538	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	5.7	164
537	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	3.7	158
536	Synthesis and characterization studies of NiO nanorods for enhancing solar cell efficiency using photon upconversion materials. <i>Ceramics International</i> , 2016 , 42, 8385-8394	5.1	157
535	Synthesis of silver nanoparticles (Ag NPs) for anticancer activities (MCF 7 breast and A549 lung cell lines) of the crude extract of <i>Syzygium aromaticum</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 167, 282-289	6.7	145
534	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	138
533	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	2.9	138
532	Photocatalytic degradation effect of malachite green and catalytic hydrogenation by UV-illuminated CeO/CdO multilayered nanoplatelet arrays: Investigation of antifungal and antimicrobial activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 169, 110-123	6.7	136
531	Green synthesis of ZnO nanoparticles by <i>Aspalathus linearis</i> : Structural & optical properties. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 425-430	5.7	134

530	Effect of grain size on structural transitions in anatase TiO ₂ : A Raman spectroscopy study at high pressure. <i>Physical Review B</i> , 2004 , 70,	3.3	134
529	Solution processing of CuSe quantum dots: Photocatalytic activity under RhB for UV and visible-light solar irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 210, 1-9	3.1	129
528	Photocatalytic decomposition effect of erbium doped cerium oxide nanostructures driven by visible light irradiation: Investigation of cytotoxicity, antibacterial growth inhibition using catalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 185, 275-282	6.7	128
527	Thermally tunable optical constants of vanadium dioxide thin films measured by spectroscopic ellipsometry. <i>Optics Communications</i> , 2011 , 284, 807-812	2	126
526	Nanoparticles green synthesis by Hibiscus Sabdariffa flower extract: Main physical properties. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 392-396	5.7	123
525	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	8.3	121
524	Antibacterial, magnetic, optical and humidity sensor studies of ECoMoO - CoO nanocomposites and its synthesis and characterization. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 183, 233-241	6.7	118
523	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	6.7	115
522	Green synthesis of Montepelite CdO nanoparticles by Agathosma betulina natural extract. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 1043-1048	5.7	113
521	Synthesis and Characterization of Graphene Thin Films by Chemical Reduction of Exfoliated and Intercalated Graphite Oxide. <i>Journal of Chemistry</i> , 2013 , 2013, 1-6	2.3	112
520	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	3.9	111
519	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016 , 16, 2477-2483	4	110
518	High performance symmetric supercapacitor based on zinc hydroxychloride nanosheets and 3D graphene-nickel foam composite. <i>Applied Surface Science</i> , 2017 , 405, 329-336	6.7	108
517	Physical & enhanced photocatalytic properties of green synthesized SnO ₂ nanoparticles via Aspalathus linearis. <i>Journal of Alloys and Compounds</i> , 2016 , 681, 561-570	5.7	108
516	Acalypha indica mediated green synthesis of ZnO nanostructures under differential thermal treatment: Effect on textile coating, hydrophobicity, UV resistance, and antibacterial activity. <i>Advanced Powder Technology</i> , 2017 , 28, 3184-3194	4.6	106
515	Evaluation on La ₂ O ₃ decorated 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	3.2	106
514	Synthesis and characterization of ZnO/TiO ₂ nanocomposites powder by modified perfume spray pyrolysis method and its antimicrobial investigation. <i>Journal of Semiconductors</i> , 2018 , 39, 033001	2.3	105
513	Physical properties of CdO nanoparticles synthesized by green chemistry via Hibiscus Sabdariffa flower extract. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 314-320	5.7	102

512	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. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1516-1522	3.6	102
511	Sageretia thea (Osbeck.) mediated synthesis of zinc oxide nanoparticles and its biological applications. <i>Nanomedicine</i> , 2017 , 12, 1767-1789	5.6	100
510	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	4.1	99
509	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	3.7	99
508	Sageretia thea (Osbeck.) modulated biosynthesis of NiO nanoparticles and their in vitro pharmacognostic, antioxidant and cytotoxic potential. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 838-852	6.1	98
507	Punicalagin Green Functionalized Cu/Cu ₂ O/ZnO/CuO Nanocomposite for Potential Electrochemical Transducer and Catalyst. <i>Nanoscale Research Letters</i> , 2016 , 11, 386	5	98
506	Bioreduction potentials of dried root of Zingiber officinale for a simple green synthesis of silver nanoparticles: Antibacterial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 177, 62-68	6.7	97
505	Green synthesis of novel zinc iron oxide (ZnFe ₂ O ₄) nanocomposite via Moringa Oleifera natural extract for electrochemical applications. <i>Applied Surface Science</i> , 2018 , 446, 66-73	6.7	96
504	An electrochemically active green synthesized polycrystalline NiO/MgO catalyst: Use in photo-catalytic applications. <i>Materials Research Bulletin</i> , 2018 , 97, 457-465	5.1	95
503	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	3.3	94
502	Physical properties, biological applications and biocompatibility studies on biosynthesized single phase cobalt oxide (Co ₃ O ₄) nanoparticles via Sageretia thea (Osbeck.). <i>Arabian Journal of Chemistry</i> , 2020 , 13, 606-619	5.9	94
501	Greener synthesis of ZnO and Ag-ZnO nanoparticles using Silybum marianum for diverse biomedical applications. <i>Nanomedicine</i> , 2019 , 14, 655-673	5.6	92
500	Biogenic synthesis of iron oxide nanorods using Moringa oleifera leaf extract for antibacterial applications. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 305-315	3.3	92
499	Sm ₂ O ₃ nanoparticles green synthesis via Callistemon viminalis' extract. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 357-362	5.7	89
498	Antioxidant and Photocatalytic Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver Nanoparticles Using. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2640-2648	1.3	89
497	Photoluminescence of well-aligned ZnO doped CeO ₂ nanoplatelets by a solvothermal route. <i>Materials Letters</i> , 2016 , 183, 351-354	3.3	87
496	Green synthesis of nickel oxide, palladium and palladium oxide synthesized via Aspalathus linearis natural extracts: physical properties & mechanism of formation. <i>Applied Surface Science</i> , 2018 , 446, 266-272	6.7	86
495	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	5.5	85

494	VO ₂ nanostructures based chemiresistors for low power energy consumption hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8147-8157	6.7	82
493	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	8.5	79
492	Pt-Al ₂ O ₃ nanocoatings for high temperature concentrated solar thermal power applications. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1634-1637	2.8	78
491	White photoluminescence from a grown ZnO nanorods/graphene hybrid nanostructure. <i>Optical Materials</i> , 2012 , 34, 1320-1326	3.3	76
490	Synthesis and characterization studies of MgO:CuO nanocrystals by wet-chemical method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 142, 405-9	4.4	75
489	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	5.7	75
488	Surface Plasmon Resonance Tunability in Au-VO ₂ Thermochromic Nano-composites 2005 , 38, 100-106		75
487	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	2.1	75
486	Structural, optical and magnetic investigation of Gd implanted CeO ₂ nanocrystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 409, 147-152	1.2	73
485	Single-phase β -Cr ₂ O ₃ nanoparticles—green synthesis using Callistemon viminalis—red flower extract. <i>Green Chemistry Letters and Reviews</i> , 2016 , 9, 85-90	4.7	73
484	Simonkolleite nano-platelets: Synthesis and temperature effect on hydrogen gas sensing properties. <i>Applied Surface Science</i> , 2012 , 258, 7839-7843	6.7	72
483	Thermal induced tunability of surface plasmon resonance in Au-VO ₂ nano-photonics. <i>Optics Communications</i> , 2005 , 254, 188-195	2	72
482	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	5.7	70
481	Optical properties of Ag-TiO ₂ nanocermet films prepared by cosputtering and multilayer deposition techniques 2000 , 39, 2745		70
480	Direct production of thermochromic VO ₂ thin film coatings by pulsed laser ablation. <i>Optical Materials</i> , 2000 , 15, 41-45	3.3	66
479	Bio-inspired encapsulation and functionalization of iron oxide nanoparticles for biomedical applications. <i>European Polymer Journal</i> , 2020 , 122, 109371	5.2	66
478	Well-Aligned Graphene Oxide Nanosheets Decorated with Zinc Oxide Nanocrystals for High Performance Photocatalytic Application. <i>International Journal of Nanoscience</i> , 2015 , 14, 1550007	0.6	65
477	Stalling behaviour of chloride ions: A non-enzymatic electrochemical detection of β -Endosulfan using CuO interface. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 100-106	8.5	64

- 476 Industrial textile effluent treatment and antibacterial effectiveness of Zea mays L. Dry husk mediated bio-synthesized copper oxide nanoparticles. *Journal of Hazardous Materials*, **2019**, 375, 281-289^{12.8} 64
- 475 Investigation on the structural properties of CeO₂ nanofibers via CTAB surfactant. *Materials Letters*, **2015**, 160, 61-63 3.3 64
- 474 Structural and optical properties of nano-structured tungsten-doped ZnO thin films grown by pulsed laser deposition. *Applied Surface Science*, **2009**, 255, 4153-4158 6.7 64
- 473 Optical limiting in pulsed laser deposited VO₂ nanostructures. *Optics Communications*, **2012**, 285, 1190-1193^{12.8} 61
- 472 Synthesis, characterization, and growth mechanism of β -Cr₂O₃ monodispersed particles. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 714-718 3.9 61
- 471 Synthesis and analytical applications of photoluminescent carbon nanosheet by exfoliation of graphite oxide without purification. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 13080-13085^{2.1} 61
- 470 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 6.7 60
- 469 Synthesis of CdS flower-like hierarchical microspheres as electrode material for electrochemical performance. *Journal of Alloys and Compounds*, **2015**, 648, 559-563 5.7 59
- 468 Biosynthesized CuO nano-platelets: Physical properties & enhanced thermal conductivity nanofluidics. *Arabian Journal of Chemistry*, **2020**, 13, 160-170 5.9 59
- 467 Nonlinear optical properties of natural laccaic acid dye studied using Z-scan technique. *Optical Materials*, **2015**, 46, 270-275 3.3 57
- 466 Studies on structural and optical properties of ZrO₂ nanopowder for opto-electronic applications. *Journal of Alloys and Compounds*, **2017**, 694, 556-559 5.7 57
- 465 Preparation, characterization and properties of sputtered electrochromic and thermochromic devices. *Surface and Coatings Technology*, **1998**, 98, 1477-1482 4.4 56
- 464 ZnO nano-discs by lyophilization process: Size effects on their intrinsic luminescence. *Journal of Alloys and Compounds*, **2016**, 656, 758-763 5.7 55
- 463 Biogenic synthesis and antibacterial activity of controlled silver nanoparticles using an extract of Gongronema Latifolium. *Materials Chemistry and Physics*, **2019**, 237, 121859 4.4 55
- 462 Thermochromic nanocrystalline Au/VO₂ composite thin films prepared by radiofrequency inverted cylindrical magnetron sputtering. *Thin Solid Films*, **2010**, 518, 1641-1647 2.2 54
- 461 Facile Synthesis of Nanosheet-like CuO Film and its Potential Application as a High-Performance Pseudocapacitor Electrode. *Electrochimica Acta*, **2016**, 198, 220-230 6.7 53
- 460 Structural, optical and morphological properties of post-growth calcined TiO₂ nanopowder for opto-electronic device application: Ex-situ studies. *Journal of Alloys and Compounds*, **2016**, 671, 486-492^{5.7} 52
- 459 Biopolymeric nanocomposite scaffolds for bone tissue engineering applications [A review]. *Journal of Drug Delivery Science and Technology*, **2020**, 55, 101452 4.5 52

458	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	4.1	51
457	Thermochromic VO ₂ thin films synthesized by rf-inverted cylindrical magnetron sputtering. <i>Applied Surface Science</i> , 2008 , 254, 3959-3963	6.7	51
456	Submicronic VO ₂ BVP composites coatings for smart windows applications and solar heat management. <i>Solar Energy</i> , 2014 , 107, 758-769	6.8	50
455	Combustion synthesis and luminescent properties of Eu ³⁺ -activated cheap red phosphors. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 132-134	5.7	50
454	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	49
453	Functional nanostructured oxides. <i>Vacuum</i> , 2015 , 114, 172-187	3.7	48
452	Electrochromic and electrochemical supercapacitive properties of Room Temperature PVP capped Ni(OH) ₂ /NiO Thin Films. <i>Electrochimica Acta</i> , 2015 , 171, 128-141	6.7	47
451	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	1.3	47
450	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	2.8	47
449	Eco-friendly synthesis, characterization, in vitro and in vivo anti-inflammatory activity of silver nanoparticle-mediated aqueous extract. <i>International Journal of Nanomedicine</i> , 2018 , 13, 8537-8548	7.3	47
448	Microstructural, optical properties and thermal stability of MgO/Zr/MgO multilayered selective solar absorber coatings. <i>Solar Energy</i> , 2015 , 111, 357-363	6.8	46
447	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. <i>Green Chemistry Letters and Reviews</i> , 2018 , 11, 166-175	4.7	46
446	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	6.4	46
445	Zinc oxide doped single wall carbon nanotubes in hole transport buffer layer. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 344-350	5.7	44
444	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	1.3	43
443	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	9.3	42
442	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	3.9	42
441	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	6.1	42

440	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 216-222	5.7	42
439	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> , 2020 , 822, 153581	5.7	42
438	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	5.7	41
437	RuO ₂ nanoparticles by a novel green process via Aspalathus linearis natural extract & their water splitting response. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 283-289	5.7	41
436	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	5.7	39
435	Annealing effect on the structural and optical properties of Cr/Al-Cr ₂ O ₃ monodispersed particles based solar absorbers. <i>Applied Surface Science</i> , 2013 , 265, 745-749	6.7	39
434	Green synthesis of zinc tin oxide (ZnSnO ₃) nanoparticles using Aspalathus Linearis natural extracts: Structural, morphological, optical and electrochemistry study. <i>Applied Surface Science</i> , 2018 , 446, 250-257	6.7	38
433	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	3.3	38
432	A Tantalum diffusion barrier layer to improve the thermal stability of Al _x O _y /Pt/Al _x O _y multilayer solar absorber. <i>Solar Energy</i> , 2014 , 107, 89-96	6.8	38
431	Magnetic behavior of biosynthesized Co ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 424, 251-255	2.8	38
430	Optimization of Al ₂ O ₃ /Pt/Al ₂ O ₃ multilayer spectrally selective coatings for solar thermal applications. <i>Vacuum</i> , 2012 , 86, 2129-2135	3.7	38
429	Green palladium and palladium oxide nanoparticles synthesized via Aspalathus linearis natural extract. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3632-3638	5.7	37
428	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	4.1	37
427	Incubation period induced biogenic synthesis of PEG enhanced Moringa oleifera silver nanocapsules and its antibacterial activity. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	37
426	Synthesis and Characterization of Mass Produced High Quality Few Layered Graphene Sheets via a Chemical Method. <i>Graphene</i> , 2014 , 03, 7-13	1.5	37
425	Electrochemical properties of Euphorbia pulcherrima mediated copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , 2020 , 244, 122714	4.4	37
424	In vitro cytocompatibility of chitosan/PVA/methylcellulose Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. <i>Applied Surface Science</i> , 2018 , 449, 574-583	6.7	37
423	Competitive growth texture of pulsed laser deposited vanadium dioxide nanostructures on a glass substrate. <i>Acta Materialia</i> , 2014 , 65, 32-41	8.4	36

422	Structural, morphological and photoluminescence properties of W-doped ZnO nanostructures. <i>Applied Surface Science</i> , 2009 , 255, 7314-7318	6.7	36
421	Daphne mucronata-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	35
420	Thermochromic VO ₂ on Zinnwaldite Mica by pulsed laser deposition. <i>Applied Surface Science</i> , 2014 , 314, 476-480	6.7	35
419	Synthesis and characterizations of rutile-TiO ₂ nanoparticles derived from chitin for potential photocatalytic applications. <i>Vacuum</i> , 2019 , 161, 49-54	3.7	35
418	Maize (Zea mays L.) fresh husk mediated biosynthesis of copper oxides: Potentials for pseudo capacitive energy storage. <i>Electrochimica Acta</i> , 2019 , 301, 436-448	6.7	34
417	Black Cr/δ-Cr ₂ O ₃ nanoparticles based solar absorbers. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1509-1512	2.8	34
416	Physical origin of third order non-linear optical response of porphyrin nanorods. <i>Materials Chemistry and Physics</i> , 2012 , 134, 646-650	4.4	33
415	Bio-inspired iron oxide nanoparticles using Psidium guajava aqueous extract for antibacterial activity. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	33
414	Photocatalytic Activity and Humidity Sensor Studies of Magnetically Reusable FeWO ₄ /WO ₃ Composite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 859-866	1.3	33
413	Studies on the spectrometric analysis of metallic silver nanoparticles (Ag NPs) using Basella alba leaf for the antibacterial activities. <i>Environmental Research</i> , 2021 , 199, 111274	7.9	33
412	Effects of gamma irradiations on reactive pulsed laser deposited vanadium dioxide thin films. <i>Applied Surface Science</i> , 2017 , 411, 271-278	6.7	32
411	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	6	32
410	Green biosynthesis of ruthenium oxide nanoparticles on nickel foam as electrode material for supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 86843-86850	3.7	32
409	Biosynthesis of silver nanoparticles using bitter leave (Veronica amygdalina) for antibacterial activities. <i>Surfaces and Interfaces</i> , 2019 , 17, 100359	4.1	32
408	Effect of Zn-doping on the structural and optical properties of BaTiO ₃ thin films grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2008 , 516, 6226-6232	2.2	31
407	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	1.2	31
406	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	5.9	31
405	High substrate temperature induced anomalous phase transition temperature shift in sputtered VO ₂ thin films. <i>Optical Materials</i> , 2010 , 32, 739-742	3.3	30

- 404 First synthesis of vanadium dioxide by ultrasonic nebula-spray pyrolysis. *Optical Materials*, **2007**, 29, 481-487 30
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