

E Manikandan

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.

144
papers

5,731
citations

47
h-index

72
g-index

158
ext. papers

6,644
ext. citations

3.5
avg, IF

6.21
L-index

#	Paper	IF	Citations
144	Microwave assisted synthesis and characterization of Fe ³⁺ -O-Fe ³⁺ sublattice magnetic moment influencing ferromagnetism exhibited erbium orthoferrite sublattice (ErFeO ₃) perovskite nanopowders. <i>Journal of Alloys and Compounds</i> , 2022 , 890, 161825	5.7	1
143	Polarisation-insensitive and broadband band-stop metamaterial filter for THz waves. <i>Pramana - Journal of Physics</i> , 2022 , 96, 1		
142	From Khoi-San indigenous knowledge to bioengineered CeO nanocrystals to exceptional UV-blocking green nanocosmetics.. <i>Scientific Reports</i> , 2022 , 12, 3468	4.9	0
141	Numerical analysis of substrate thickness and its etching effect on broadband/narrowband terahertz metamaterial. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	
140	Ion Beam Analysis of Proton-Induced X-ray Emission (PIXE) Techniques for Elemental Investigation of Young Stage Neem Leaf of Southern India, Tamil Nadu. <i>Biological Trace Element Research</i> , 2021 , 199, 3540-3546	4.5	8
139	Enhanced anticorrosion properties of nitrogen ions modified polyvinyl alcohol/Mg-Ag ions co-incorporated calcium phosphate coatings. <i>Materials Chemistry and Physics</i> , 2021 , 261, 124182	4.4	2
138	Methylene blue intercalated layered MnO ₂ nanosheets for high-sensitive non-enzymatic ascorbic acid sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 8317-8329	2.1	4
137	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> , 2021 , 16, 1461-1493	2.4	3
136	Thermal valorisation extracts of selected agro-waste for human pathogen antibacterial NiO nanoparticles synthesis. <i>Materials Today: Proceedings</i> , 2021 , 36, 559-565	1.4	2
135	Surface plasmon assisted toxic chemical NO ₂ gas sensor by Au/ZnO functional thin films. <i>Journal of Sensors and Sensor Systems</i> , 2021 , 10, 163-169	1.6	6
134	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> , 2021 , 52, 1838	2.3	2
133	Enhanced photocatalytic performance of Hausmannite Mn ₃ O ₄ -rGO nanocomposite in degrading methylene blue. <i>Materials Letters</i> , 2021 , 305, 130750	3.3	3
132	Influences of Ti ⁴⁺ ion on dielectric property in perovskite structure of La ferrite (LaFe _{1-x} Ti _x O ₃). <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155040	5.7	3
131	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> , 2020 , 12, 287-295	0.7	4
130	Removal of Free Cyanide by a Green Photocatalyst ZnO Nanoparticle Synthesized via Eucalyptus globulus Leaves 2020 , 271-288		2
129	A Single Layer UWB Frequency Selective Surface for Shielding Application. <i>Journal of Electronic Materials</i> , 2020 , 49, 4794-4800	1.9	3
128	Remarkable thermal conductivity enhancement in Ag-decorated graphene nanocomposites based nanofluid by laser liquid solid interaction in ethylene glycol. <i>Scientific Reports</i> , 2020 , 10, 10982	4.9	11

127	Electronic structures associated with enhanced photocatalytic activity in nanogap-engineered g-C ₃ N ₄ /Ag@SiO ₂ hybrid nanostructures. <i>Applied Surface Science</i> , 2020 , 514, 145907	6.7	4
126	Pathogenic Escherichia coli (E. coli) detection through tuned nanoparticles enhancement study. <i>Biotechnology Letters</i> , 2020 , 42, 853-863	3	14
125	Effect of Nickel Doping on the Properties of Hydroxyapatite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 2482-2487	1.3	4
124	Structural, morphological, and magnetic properties of copper zinc cobalt ferrites systems nanocomposites. <i>Biointerface Research in Applied Chemistry</i> , 2020 , 10, 6015-6019	2.8	2
123	Synthesis and characterization of pure and Cu doped CeO ₂ nanoparticles: photocatalytic and antibacterial activities evaluation. <i>Biointerface Research in Applied Chemistry</i> , 2020 , 10, 5306-5311	2.8	12
122	Visible-Light Driven Photocatalytic Degradation of Eosin Yellow (EY) Dye Based on NiO-WO ₃ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 924-933	1.3	16
121	Catalyst-Free Growth of MoS ₂ Nanorods Synthesized by Dual Pulsed Laser-Assisted Chemical Vapor Deposition and Their Structural, Optical and Electrical Properties. <i>Journal of Electronic Materials</i> , 2020 , 49, 1957-1968	1.9	5
120	Synthesis and characterization of optical, magnetic and electrochemical behavior of manganese-zinc co-doped tin oxide nanoparticles. <i>Vacuum</i> , 2020 , 173, 109116	3.7	14
119	Solid-state synthesis of Ag-doped PANI nanocomposites for their end-use as an electrochemical sensor for hydrogen peroxide and dopamine. <i>Electrochimica Acta</i> , 2020 , 363, 137158	6.7	29
118	Structural, Optical and Magnetic Properties of ZnCoO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 5525-5532	1.3	1
117	Enhanced Biosynthesis Synthesis of Copper Oxide Nanoparticles (CuO-NPs) for their Antifungal Activity Toxicity against Major Phyto-Pathogens of Apple Orchards. <i>Pharmaceutical Research</i> , 2020 , 37, 246	4.5	12
116	Facile synthesis and characterization of hydroxyapatite from fish bones: Photocatalytic degradation of industrial dyes (crystal violet and Congo red). <i>Progress in Organic Coatings</i> , 2020 , 148, 105890	4.8	20
115	Dynamic frequency analysis of stress-strain-dependent reversibly deformable broadband RF antenna over unevenly made elastomeric substrate 2020 , 94, 1		
114	Cobalt Metal ion Doped Cerium Oxide (Co-CeO ₂) Nanoparticles Effect Enhanced Photocatalytic Activity. <i>MRS Advances</i> , 2020 , 5, 2503-2515	0.7	5
113	An ultrafast laser micromachined broadband terahertz frequency selective surface. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	1
112	Polymer-based calcium phosphate scaffolds for tissue engineering applications 2019 , 585-618		6
111	Patterned 2D Thin Films Topological Insulators for Potential Plasmonic Applications 2019 , 361-391		
110	Enhanced structural, optical, electrochemical and magnetic behavior on manganese doped tin oxide nanoparticles via chemical precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 7606-7617	2.1	12

109	Synthesis and Characterization of Novel Chitosan/Yttrium Oxide Nanorods and Their Electrochemical Sensing Performance Towards Cd (II) Ions. <i>Journal of Electronic Materials</i> , 2019 , 48, 3261-3269 ^{1,9}	4	3269
108	Design of polarisation-dependent multiband terahertz frequency-selective surface using two resonators 2019 , 92, 1		3
107	Micromachining of biocompatible polymer substrate for cancer cell separation applications. <i>Microsystem Technologies</i> , 2019 , 25, 2187-2190	1.7	1
106	Performance of various cyanide degrading bacteria on the biodegradation of free cyanide in water. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120900	12.8	13
105	Structure Metallic Surface for Terahertz Plasmonics. <i>Plasmonics</i> , 2019 , 14, 1311-1319	2.4	4
104	Cobalt Nanoparticle As The Antibacterial Tool: In Vitro. <i>International Journal of Engineering and Advanced Technology</i> , 2019 , 8, 3684-3687	1.6	5
103	Synthesis of ecofriendly copper oxide nanoparticles for fabrication over textile fabrics: Characterization of antibacterial activity and dye degradation potential. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 191, 143-149	6.7	156
102	Fabrication of silicon microstructure for cell separation using ultrashort laser ablation. <i>Microsystem Technologies</i> , 2019 , 25, 2931-2936	1.7	
101	A Rapid Fabrication of Novel Dual Band Terahertz Metamaterial by Femtosecond Laser Ablation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019 , 40, 38-47	2.2	7
100	Chemical, Morphological, Structural, Optical, and Magnetic Properties of Transition Metal Titanium (Ti)-Doped LaFeO ₃ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 1791-1797 ^{1,5}	11	1797
99	Low temperature synthesis of coiled carbon nanotubes and their magnetic properties 2018 ,		1
98	Large-scale synthesis of coiled-like shaped carbon nanotubes using bi-metal catalyst. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 105-113	3.3	11
97	Surface active gold nanoparticles biosynthesis by new approach for bionanocatalytic activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 179, 119-125	6.7	32
96	Enhanced magnetic behaviour and cell proliferation of gamma irradiated dual metal ions co-doped hydroxyapatite [poly(methyl methacrylate) composite films. <i>Reactive and Functional Polymers</i> , 2018 , 123, 34-43	4.6	10
95	Enhanced magneto-optical and photo-catalytic properties of transition metal cobalt (Co ²⁺ ions) doped spinel MgFe ₂ O ₄ ferrite nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 380-388	2.8	128
94	Novel multifunctional of magnesium ions (Mg ⁺⁺) incorporated calcium phosphate nanostructures. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 31-35	5.7	9
93	Numerical Studies on the Effect of Superconducting Thin Films on Radiation Performance of a Multiband Mid-Infrared Nano-Patch Antenna. <i>Journal of Electronic Materials</i> , 2018 , 47, 6272-6281	1.9	1
92	Neurotransmitter Dopamine Enhanced Sensing Detection Using Fibre-Like Carbon Nanotubes by Chemical Vapor Deposition Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 5380-5389 ^{1,3}	13	5389

91	Direct laser fabrication of five-band symmetric terahertz metamaterial with Fano resonance. <i>Materials Letters</i> , 2018 , 229, 320-323	3.3	14
90	Impact of magnetic field on the mineralization of iron doped calcium phosphates. <i>Materials Chemistry and Physics</i> , 2018 , 218, 166-171	4.4	2
89	A stretchable smart and highly efficient radio frequency antenna on low cost substrate. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 1798-1803	1.2	5
88	Solid-State Synthesis of POPD@AgNPs Nanocomposites for Electrochemical Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 3991-3999	1.3	13
87	Comparative Study of Structural, Morphological, Magneto-Optical and Photo-Catalytic Properties of Magnetically Reusable Spinel MnFe ₂ O ₄ Nano-Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 3523-3531	1.3	48
86	Recent Progress in Nanostructured Zinc Oxide Grown on Fabric for Wearable Thermoelectric Power Generator with UV Shielding 2018 ,		1
85	Biogenesis of copper oxide nanoparticles (CuONPs) using <i>Sida acuta</i> and their incorporation over cotton fabrics to prevent the pathogenicity of Gram negative and Gram positive bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 188, 126-134	6.7	132
84	Enhancement of the isopropanol gas sensing performance of SnO ₂ /ZnO core/shell nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2662-2668	7.1	93
83	Transition metal titanium (Ti) doped LaFeO ₃ nanoparticles for enhanced optical structural and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 870-877	5.7	68
82	Chemical and structural analysis of gallstones from the Indian subcontinent. <i>Materials Science and Engineering C</i> , 2017 , 78, 878-885	8.3	9
81	Enhanced magnetic properties of polymer-magnetic nanostructures synthesized by ultrasonication. <i>Journal of Alloys and Compounds</i> , 2017 , 720, 395-400	5.7	55
80	The impact of anticancer activity upon <i>Beta vulgaris</i> extract mediated biosynthesized silver nanoparticles (Ag-NPs) against human breast (MCF-7), lung (A549) and pharynx (Hep-2) cancer cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 173, 99-107	6.7	77
79	Agarose encapsulated mesoporous carbonated hydroxyapatite nanocomposites powder for drug delivery. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 166, 220-231	6.7	40
78	Synthesis and enhanced field emission of zinc oxide incorporated carbon nanotubes. <i>Diamond and Related Materials</i> , 2017 , 71, 79-84	3.5	92
77	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
76	Green synthesis of Si-incorporated hydroxyapatite using sodium metasilicate as silicon precursor and in vitro antibiotic release studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 175, 163-172	6.7	16
75	Enhanced Polymer Induced Precipitation of Polymorphous in Calcium Carbonate: Calcite Aragonite Vaterite Phases. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 770-778	3.2	22
74	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

73	Improved, Photon Conversion Efficiency of (SnO ₂) Doped Cesium Oxide (Cs) Nanofibers for Photocatalytic Application Under Solar Irradiation. <i>Springer Proceedings in Physics</i> , 2017 , 113-128	0.2	5
72	Magnetic behavior of biosynthesized Co ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 424, 251-255	2.8	38
71	Enhanced mechanical strength and sustained drug release of gelatin/keratin scaffolds. <i>Materials Letters</i> , 2017 , 186, 109-112	3.3	18
70	Studies on structural and optical properties of ZrO ₂ nanopowder for opto-electronic applications. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 556-559	5.7	57
69	Enhanced Opto-Magneto Properties of Ni _x Mg _{1-x} Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) Ferrites Nano-Catalysts. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017 , 12, 1326-1333	1.3	58
68	Single phase Bunsenite NiO nanoparticles green synthesis by Agathosma betulina natural extract. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 655-661	5.7	164
67	Photoluminescence of well-aligned ZnO doped CeO ₂ nanoplatelets by a solvothermal route. <i>Materials Letters</i> , 2016 , 183, 351-354	3.3	87
66	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
65	Facile synthesis of mercaptosuccinic acid-capped CdTe/CdS/ZnS core/double shell quantum dots with improved cell viability on different cancer cells and normal cells. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	23
64	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016 , 16, 2477-2483	4	110
63	ZnO nano-discs by lyophilization process: Size effects on their intrinsic luminescence. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 758-763	5.7	55
62	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	5.7	52
61	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
60	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
59	Rice Husks As A Sustainable Source Of High Quality Nanostructured Silica For High Performance Li-Ion Battery Requiral By Sol-Gel Method [A Review]. <i>Advanced Materials Letters</i> , 2016 , 7, 684-696	2.4	61
58	Photodegradation of organic pollutants RhB dye using UV simulated sunlight on ceria based TiO ₂ nanomaterials for antibacterial applications. <i>Scientific Reports</i> , 2016 , 6, 38064	4.9	277
57	Single-phase FeCr ₂ O ₃ nanoparticles green synthesis using Callistemon viminalis dried flower extract. <i>Green Chemistry Letters and Reviews</i> , 2016 , 9, 85-90	4.7	73
56	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

55	Novel gamma irradiated agarose-gelatin-hydroxyapatite nanocomposite scaffolds for skin tissue regeneration. <i>Ceramics International</i> , 2016 , 42, 11045-11054	5.1	26
54	Luminescent Eu ₂ O ₃ nanocrystals byAspalathus linearisextract: structural and optical properties. <i>Journal of Nanophotonics</i> , 2016 , 10, 026010	1.1	22
53	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
52	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 ^{2,1,61}	2.1	61
51	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
50	Free standing diamond-like carbon thin films by PLD for laser based electrons/protons acceleration. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 326-331	5.7	23
49	Synthesis of magnetic hydroxyapatite by hydrothermal microwave technique: Dielectric, protein adsorption, blood compatibility and drug release studies. <i>Ceramics International</i> , 2015 , 41, 13153-13163 ^{5.1}	5.1	44
48	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
47	Enhanced violet photoemission of nanocrystalline fluorine doped zinc oxide (FZO) thin films. <i>Optical Materials</i> , 2015 , 47, 88-94	3.3	17
46	Quantum confinement of lead titanate nanocrystals by wet chemical method. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 50-53	5.7	10
45	Synthesis of CdS flower-like hierarchical microspheres as electrode material for electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 559-563	5.7	59
44	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
43	Novel ultraviolet emitting low energy nitrogen ion implanted magnesium ion incorporated nanocrystalline calcium phosphate. <i>Materials Letters</i> , 2015 , 153, 182-185	3.3	7
42	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
41	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
40	Green synthesis of ZnO nanoparticles via Agathosma betulina natural extract. <i>Materials Letters</i> , 2015 , 161, 124-127	3.3	209
39	Investigation on the structural properties of CeO ₂ nanofibers via CTAB surfactant. <i>Materials Letters</i> , 2015 , 160, 61-63	3.3	64
38	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}	5.7	70

37	Physicochemical analysis of urinary stones from Dharmapuri district. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 134, 442-8	4.4	14
36	Green synthesis of magnesium ion incorporated nanocrystalline hydroxyapatite and their mechanical, dielectric and photoluminescence properties. <i>Materials Research Bulletin</i> , 2015 , 67, 55-62	5.1	24
35	Functional nanostructured oxides. <i>Vacuum</i> , 2015 , 114, 172-187	3.7	48
34	Quantum confinement and photoluminescence of well-aligned CdO nanofibers by a solvothermal route. <i>Materials Letters</i> , 2014 , 120, 243-245	3.3	78
33	One dimensional well-aligned CdO nanocrystal by solvothermal method. <i>Journal of Alloys and Compounds</i> , 2014 , 593, 67-70	5.7	127
32	Structural, Optical and Micro-Raman Scattering Studies of Nanosized Copper Ion (Cu ⁺) Exchanged Soda Lime Glasses. <i>Plasmonics</i> , 2014 , 9, 637-643	2.4	17
31	Biological resemblance of cadmium sulphide seaweeds coral honeycomb nanostructures by a chemical bath deposition technique. <i>Materials Letters</i> , 2014 , 120, 295-298	3.3	11
30	Surface enhanced Raman scattering (SERS) of silver ions embedded nanocomposite glass. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 124, 203-7	4.4	20
29	Femtosecond laser surface structuring and oxidation of chromium thin coatings: Black chromium. <i>Applied Surface Science</i> , 2014 , 321, 560-565	6.7	20
28	A novel and rapid route to synthesize polyvinyl alcohol/calcium phosphate nanocomposite coatings by microwave assisted deposition. <i>Materials Letters</i> , 2014 , 135, 191-194	3.3	10
27	Investigation of structural and photoluminescence properties of gas and metal ions doped zinc oxide single crystals. <i>Journal of Alloys and Compounds</i> , 2014 , 616, 614-617	5.7	178
26	Epitaxial zinc oxide, graphene oxide composite thin-films by laser technique for micro-Raman and enhanced field emission study. <i>Ceramics International</i> , 2014 , 40, 16065-16070	5.1	125
25	Nanocauliflower like structure of CdS thin film for solar cell photovoltaic applications: In situ tin doping by chemical bath deposition technique. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 555-560	5.7	37
24	Physicochemical characterization of the superhydrophilic, magnesium and silver ions co-incorporated nanocrystalline hydroxyapatite, synthesized by microwave processing. <i>Ceramics International</i> , 2014 , 40, 13771-13779	5.1	12
23	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
22	MORPHOLOGICAL AND CRYSTALLOGRAPHIC PROPERTIES OF RARE EARTH OXIDES COATINGS DEPOSITED BY DOUBLE DUAL BEAM-PLD. <i>Surface Review and Letters</i> , 2014 , 21, 1450001	1.1	15
21	Antibacterial and Blue shift investigations in sol-gel synthesized Cr _x Zn _{1-x} O Nanostructures. <i>Journal of Luminescence</i> , 2014 , 145, 944-950	3.8	40
20	Magnetic, optical and structural studies on Ag doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2302-2308	2.1	34

19	Combustion synthesis of novel boron carbide 2013 ,		6
18	Nano Ag-doped ZnO particles magnetic, optical and structural studies 2013 ,		5
17	Microstructural and optical properties of nanocrystalline undoped zirconia thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 427-432	2.6	16
16	Surface modification of nanocrystalline calcium phosphate bioceramic by low energy nitrogen ion implantation. <i>Ceramics International</i> , 2013 , 39, 3027-3034	5.1	19
15	SYNTHESIS OF Mg DOPED TiO ₂ NANOCRYSTALS PREPARED BY WET-CHEMICAL METHOD: OPTICAL AND MICROSCOPIC STUDIES. <i>International Journal of Nanoscience</i> , 2013 , 12, 1350033	0.6	67
14	Morphology and characterization of TiO ₂ nanoparticles synthesized by arc discharge. <i>Chemical Physics Letters</i> , 2012 , 521, 86-90	2.5	55
13	Synthesis and Properties of Tungsten Oxide and Reduced Graphene Oxide Nanocomposites. <i>Materials Express</i> , 2012 , 2, 327-334	1.3	71
12	Effect of Carbon Modification on the Electrical, Structural, and Optical Properties of TiO ₂ Electrodes and Their Performance in Lab-scale Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-9	2.1	16
11	2 MeV-PIXE TECHNIQUE FOR COASTAL MATERIAL ANALYSIS. <i>International Journal of PIXE</i> , 2011 , 21, 75-86	0.1	11
10	Size-controlled synthesis and gas sensing application of tungsten oxide nanostructures produced by arc discharge. <i>Nanotechnology</i> , 2011 , 22, 335702	3.4	62
9	Synthesis, characterization, and growth mechanism of HfCr ₂ O ₃ monodispersed particles. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 714-718	3.9	61
8	Controllable Synthesis of Single-Crystalline Fe ₃ O ₄ Nanorice by a One-Pot, Surfactant-Assisted Hydrothermal Method and Its Properties. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 5384-5389 ^{2,3}		28
7	In situ optical emission study on the role of C ₂ in the synthesis of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2010 , 107, 044308	2.5	30
6	Zinc oxide epitaxial thin film deposited over carbon on various substrate by pulsed laser deposition technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5602-11	1.3	50
5	Self Assembly and Properties of C:WO ₃ Nano-Platelets and C:VO ₂ /V ₂ O ₅ Triangular Capsules Produced by Laser Solution Photolysis. <i>Nanoscale Research Letters</i> , 2009 , 5, 389-397	5	44
4	GAMMA- RAY SPECTROSCOPIC AND PIXE ANALYSIS OF BEACH ROCK SAMPLES OF SOUTH EAST COAST OF TAMILNADU, INDIA. <i>International Journal of PIXE</i> , 2007 , 17, 193-203	0.1	12
3	Determination and distribution of rare earth elements in beach rock samples using instrumental neutron activation analysis (INAA). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 251, 496-500 ^{1,2}		26
2	Nobel Ag ⁺ /Au ion-exchange bimetallic nanoclusters formation over gold ion (Au ²⁺) implanted materials RBS and optical study. <i>Radiation Effects and Defects in Solids</i> , 1-12	0.9	

- 1 Optical and electrical properties of pure and doped tin oxide nanoparticles. *Particulate Science and Technology*,1-9 2