

K Kaviyarasu

List of Publications by Year in descending order

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161
papers

11,246
citations

14655

66
h-index

33894

99
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162
all docs

162
docs citations

162
times ranked

7869
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	Eco-friendly preparation of zinc oxide nanoparticles using <i>Tabernaemontana divaricata</i> and its photocatalytic and antimicrobial activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 181, 53-58.	3.8	282
4	Green synthesis of NiO nanoparticles using <i>Aegle marmelos</i> leaf extract for the evaluation of in-vitro cytotoxicity, antibacterial and photocatalytic properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 180, 39-50.	3.8	281
5	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
6	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
7	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
8	Rapid biosynthesis and characterization of silver nanoparticles from the leaf extract of <i>Tropaeolum majus</i> L. and its enhanced in-vitro antibacterial, antifungal, antioxidant and anticancer properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 65-74.	3.8	213
9	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
10	Photocatalytic activity of binary metal oxide nanocomposites of CeO ₂ /CdO nanospheres: Investigation of optical and antimicrobial activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 163, 77-86.	3.8	190
11	Green synthesis of Ag nanoparticles using Tamarind fruit extract for the antibacterial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 169, 178-185.	3.8	183
12	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
13	One dimensional well-aligned CdO nanocrystal by solvothermal method. <i>Journal of Alloys and Compounds</i> , 2014, 593, 67-70.	5.5	157
14	Green synthesis of novel zinc iron oxide (ZnFe ₂ O ₄) nanocomposite via <i>Moringa Oleifera</i> natural extract for electrochemical applications. <i>Applied Surface Science</i> , 2018, 446, 66-73.	6.1	156
15	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.	3.8	155
16	Antibacterial, magnetic, optical and humidity sensor studies of Fe^{2+} -CoMoO ₄ - Co ₃ O ₄ nanocomposites and its synthesis and characterization. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 183, 233-241.	3.8	152
17	Visible active reduced graphene oxide-BiVO ₄ -ZnO ternary photocatalyst for efficient removal of ciprofloxacin. <i>Separation and Purification Technology</i> , 2020, 233, 115996.	7.9	152
18	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.	3.5	151

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19	Facile synthesis of heterostructured cerium oxide/yttrium oxide nanocomposite in UV light induced photocatalytic degradation and catalytic reduction: Synergistic effect of antimicrobial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 23-34.	3.8	150
20	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.	3.5	150
21	Synthesis and characterization of ZnO@CuO nanocomposites powder by modified perfume spray pyrolysis method and its antimicrobial investigation. <i>Journal of Semiconductors</i> , 2018, 39, 033001.	3.7	138
22	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
23	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
24	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
25	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
26	Studies on the efficient dual performance of Mn _{1-x} Ni _x Fe ₂ O ₄ spinel nanoparticles in photodegradation and antibacterial activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 121-132.	3.8	127
27	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
28	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.	2.4	124
29	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
30	One step green synthesis of larvicidal, and azo dye degrading antibacterial nanoparticles by response surface methodology. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 190, 154-162.	3.8	121
31	Punicalagin Green Functionalized Cu/Cu ₂ O/ZnO/CuO Nanocomposite for Potential Electrochemical Transducer and Catalyst. <i>Nanoscale Research Letters</i> , 2016, 11, 386.	5.7	118
32	Studies of MnO ₂ /g-C ₃ N ₄ heterostructure efficient of visible light photocatalyst for pollutants degradation by sol-gel technique. <i>Surfaces and Interfaces</i> , 2020, 20, 100512.	3.0	112
33	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
34	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
35	Photoluminescence of well-aligned ZnO doped CeO ₂ nanoplatelets by a solvothermal route. <i>Materials Letters</i> , 2016, 183, 351-354.	2.6	103
36	Synthesis of titanium oxide nanoparticles using <i>Aloe barbadensis</i> mill and evaluation of its antibiofilm potential against <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 201, 111667.	3.8	101

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37	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
38	Biosynthesis of silver nanoparticles using phyllanthus emblica fruit extract for antimicrobial application. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101567.	3.1	99
39	Development and characterization of alginate / chitosan nanoparticulate system for hydrophobic drug encapsulation. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 52, 65-72.	3.0	98
40	Biosynthesis, characterization, and antibacterial activity of gold nanoparticles. <i>Journal of Infection and Public Health</i> , 2021, 14, 1842-1847.	4.1	96
41	Bio-Synthesis of Silver Nanoparticles Using Agroforestry Residue and Their Catalytic Degradation for Sustainable Waste Management. <i>Journal of Cluster Science</i> , 2017, 28, 2279-2291.	3.3	92
42	Photocatalytic effect of CuO nanoparticles flower-like 3D nanostructures under visible light irradiation with the degradation of methylene blue (MB) dye for environmental application. <i>Environmental Research</i> , 2022, 203, 111880.	7.5	91
43	Quantum confinement and photoluminescence of well-aligned CdO nanofibers by a solvothermal route. <i>Materials Letters</i> , 2014, 120, 243-245.	2.6	88
44	Catalytic studies of NiFe ₂ O ₄ nanoparticles prepared by conventional and microwave combustion method. <i>Materials Chemistry and Physics</i> , 2019, 221, 11-28.	4.0	88
45	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
46	Green synthesis of ZnO nanoparticle using Prunus dulcis (Almond Gum) for antimicrobial and supercapacitor applications. <i>Surfaces and Interfaces</i> , 2019, 17, 100376.	3.0	87
47	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
48	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
49	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
50	Visible active reduced graphene oxide loaded titania for photodecomposition of ciprofloxacin and its antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 564, 23-30.	4.7	82
51	Green-fuel-mediated synthesis of self-assembled NiO nano-sticks for dual applications – photocatalytic activity on Rose Bengal dye and antimicrobial action on bacterial strains. <i>Materials Research Express</i> , 2017, 4, 085030.	1.6	80
52	Synthesis and antimicrobial photodynamic effect of methylene blue conjugated carbon nanotubes on E. coli and S. aureus. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 563-576.	2.9	80
53	Effect of Ag doped MnO ₂ nanostructures suitable for wastewater treatment and other environmental pollutant applications. <i>Environmental Research</i> , 2022, 205, 112560.	7.5	77
54	A facile hydrothermal route to synthesize novel PbI ₂ nanorods. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1396-1400.	4.0	76

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55	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.	0.7	76
56	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
57	High performance multifunctional green Co ₃ O ₄ spinel nanoparticles: photodegradation of textile dye effluents, catalytic hydrogenation of nitro-aromatics and antibacterial potential. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 766-778.	2.9	76
58	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 166-175.	4.7	76
59	Investigation on the structural properties of CeO ₂ nanofibers via CTAB surfactant. <i>Materials Letters</i> , 2015, 160, 61-63.	2.6	75
60	Synthesis and characterization of CuO/ZnO/CNTs thin films on copper substrate and its photocatalytic applications. <i>OpenNano</i> , 2019, 4, 100025.	4.8	74
61	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
62	Adsorption of copper and nickel by using sawdust chitosan nanocomposite beads – A kinetic and thermodynamic study. <i>Environmental Research</i> , 2022, 203, 111814.	7.5	72
63	A novel synthesis protocol for Co ₃ O ₄ nanocatalysts and their catalytic applications. <i>RSC Advances</i> , 2017, 7, 38861-38870.	3.6	71
64	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
65	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.	7.5	69
66	High Performance Photo-Catalyst Based on Nanosized ZnO–TiO ₂ Nanoplatelets for Removal of RhB Under Visible Light Irradiation. <i>Journal of Advanced Microscopy Research</i> , 2018, 13, 12-19.	0.3	69
67	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
68	Structural elucidation and spectral characterizations of Co ₃ O ₄ nanoflakes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 586-591.	3.9	67
69	Structural and optical properties of nickel oxide nanoparticles: Investigation of antimicrobial applications. <i>Surfaces and Interfaces</i> , 2020, 18, 100460.	3.0	66
70	Rice Husks As A Sustainable Source Of High Quality Nanostructured Silica For High Performance Li-ion Battery Requitl By Sol-gel Method – A Review. <i>Advanced Materials Letters</i> , 2016, 7, 684-696.	0.6	65
71	Enhancing the photocatalytic performance of surface - Treated SnO ₂ hierarchical nanorods against methylene blue dye under solar irradiation and biological degradation. <i>Environmental Research</i> , 2022, 209, 112821.	7.5	64
72	A rapid and versatile method for solvothermal synthesis of Sb ₂ O ₃ nanocrystals under mild conditions. <i>Applied Nanoscience (Switzerland)</i> , 2013, 3, 529-533.	3.1	62

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73	Anti-cancer activity of hierarchical ZSM-5 zeolites synthesized from rice-based waste materials. RSC Advances, 2018, 8, 481-490.	3.6	62
74	Biosynthesis of NiO nanoparticles for photodegradation of free cyanide solutions under ultraviolet light. Journal of Physics and Chemistry of Solids, 2019, 134, 133-140.	4.0	62
75	Synthesis and characterization of TiO ₂ doped cobalt ferrite nanoparticles via microwave method: Investigation of photocatalytic performance of congo red degradation dye. Surfaces and Interfaces, 2021, 25, 101296.	3.0	60
76	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. Journal of Alloys and Compounds, 2018, 748, 216-222.	5.5	56
77	In vitro cytocompatibility of chitosan/PVA/methylcellulose “ Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. Applied Surface Science, 2018, 449, 574-583.	6.1	55
78	Optical, Magnetic and Photocatalytic Activity Studies of Li, Mg and Sr Doped and Undoped Zinc Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2018, 18, 5441-5447.	0.9	55
79	Systematic green synthesis of silver oxide nanoparticles for antimicrobial activity. Environmental Research, 2021, 202, 111627.	7.5	55
80	One Pot Synthesis and Characterization of Cesium Doped SnO ₂ Nanocrystals via a Hydrothermal Process. Journal of Materials Science and Technology, 2012, 28, 15-20.	10.7	52
81	Development of Biomimetic Hybrid Porous Scaffold of Chitosan/Polyvinyl Alcohol/Carboxymethyl Cellulose by Freeze-Dried and Salt Leached Technique. Journal of Nanoscience and Nanotechnology, 2018, 18, 4916-4922.	0.9	52
82	Chrysin-Loaded Chitosan Nanoparticles Potentiates Antibiofilm Activity against Staphylococcus aureus. Pathogens, 2020, 9, 115.	2.8	51
83	Zinc oxide doped single wall carbon nanotubes in hole transport buffer layer. Journal of Alloys and Compounds, 2017, 706, 344-350.	5.5	49
84	Reproducibility and long-term stability of Sn doped MnO ₂ nanostructures: Practical photocatalytic systems and wastewater treatment applications. Chemosphere, 2022, 293, 133646.	8.2	48
85	A novel biogenic Allium cepa leaf mediated silver nanoparticles for antimicrobial, antioxidant, and anticancer effects on MCF-7 cell line. Environmental Research, 2021, 198, 111199.	7.5	46
86	Gum mediated synthesis and characterization of CuO nanoparticles towards infectious disease-causing antimicrobial resistance microbial pathogens. Journal of Infection and Public Health, 2021, 14, 1893-1902.	4.1	46
87	A comparative study of structural and photocatalytic mechanism of AgGaO ₂ nanocomposites for equilibrium and kinetics evaluation of adsorption parameters. Surfaces and Interfaces, 2019, 17, 100375.	3.0	43
88	Self-cleaning mechanism of synthesized SnO ₂ /TiO ₂ nanostructure for photocatalytic activity application for waste water treatment. Surfaces and Interfaces, 2019, 17, 100346.	3.0	43
89	Photocatalytic Activity and Humidity Sensor Studies of Magnetically Reusable FeWO ₄ WO ₃ Composite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 859-866.	0.9	43
90	A Convenient Route To Synthesize Hexagonal Pillar Shaped ZnO Nanoneedles Via CTAB Surfactant. Advanced Materials Letters, 2013, 4, 582-585.	0.6	42

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91	Current trends of Silver doped Zinc oxide nanowires photocatalytic degradation for energy and environmental application. <i>Surfaces and Interfaces</i> , 2021, 23, 100931.	3.0	41
92	Antimicrobial photodynamic inactivation of fungal biofilm using amino functionalized mesoporous silica-rose bengal nanoconjugate against <i>Candida albicans</i> . <i>Scientific African</i> , 2018, 1, e00007.	1.5	40
93	Green mediated NiO nano-rods using <i>Phoenix dactylifera</i> (Dates) extract for biomedical and environmental applications. <i>Materials Chemistry and Physics</i> , 2020, 241, 122419.	4.0	39
94	Spectroscopic, quantum chemical, molecular docking and in vitro anticancer activity studies on 5-Methoxyindole-3-carboxaldehyde. <i>Journal of Molecular Structure</i> , 2019, 1197, 134-146.	3.6	38
95	Structural, optical and Mössbauer investigation on the biosynthesized γ -Fe ₂ O ₃ : Study on different precursors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 111, 152-157.	2.7	38
96	Equilibrium synthesis and magnetic properties of BaFe ₁₂ O ₁₉ /NiFe ₂ O ₄ nanocomposite prepared by co precipitation method. <i>Journal of King Saud University - Science</i> , 2020, 32, 1612-1618.	3.5	38
97	Hierarchical nanorods of graphene oxide decorated SnO ₂ with high photocatalytic performance for energy conversion applications. <i>Fuel</i> , 2022, 324, 124599.	6.4	38
98	Investigation of electrochemical performance, optical and magnetic properties of NiFe ₂ O ₄ nanoparticles prepared by a green chemistry method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 114002.	2.7	37
99	Electrical and magnetic properties of nanostructured Ni doped CeO ₂ for optoelectronic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 160, 110369.	4.0	35
100	Salt Leaching Synthesis, Characterization and In Vitro Cytocompatibility of Chitosan/Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 Nanoscience and Nanotechnology, 2019, 19, 4447-4457.	0.9	34
101	Specific charge separation of Sn doped MgO nanoparticles for photocatalytic activity under UV light irradiation. <i>Separation and Purification Technology</i> , 2022, 294, 121189.	7.9	33
102	Synthesis and characterization of nano-hydroxyapatite/graphene oxide composite materials for medical implant coating applications. <i>Materials Today: Proceedings</i> , 2021, 36, 204-207.	1.8	32
103	Structural and morphological properties of Co ₃ O ₄ nanostructures: Investigation of low temperature oxidation for photocatalytic application for waste water treatment. <i>Surfaces and Interfaces</i> , 2019, 17, 100369.	3.0	31
104	Feasibility Studies on Avocado as Reducing Agent in TiO ₂ Doped with Ag ₂ O and Cu ₂ O Nanoparticles for Biological Applications. <i>Journal of Bionanoscience</i> , 2018, 12, 652-659.	0.4	30
105	Rapid photocatalytic degradation of 2, 4-dichlorophenoxy acetic acid by ZnO nanoparticles synthesized using the leaf extract of <i>Muntingia calabura</i> . <i>Journal of Molecular Structure</i> , 2022, 1263, 133127.	3.6	28
106	Development and Characterization of Sodium Alginate/Poly(vinyl alcohol) Blend Scaffold with Ciprofloxacin Loaded in Controlled Drug Delivery System. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2493-2500.	0.9	26
107	Phase transition study in strongly correlated VO ₂ based sensing systems. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 216, 23-32.	1.7	25
108	Green Synthesis of Co ₃ O ₄ Nanorods for Highly Efficient Catalytic, Photocatalytic, and Antibacterial Activities. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2590-2598.	0.9	25

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109	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.	3.3	25
110	Construction and Characterization of Photodiodes prepared with Bi ₂ S ₃ Nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158681.	5.5	25
111	Superparamagnetic hematite spheroids synthesis, characterization, and catalytic activity. <i>Chemosphere</i> , 2022, 294, 133730.	8.2	25
112	Investigation on antibacterial and photocatalytic degradation of Rhodamine-B dye under visible light irradiation by titanium molybdate nanoparticles prepared via microwave method. <i>Surfaces and Interfaces</i> , 2019, 17, 100381.	3.0	24
113	Annealing dependent synthesis of cyto-compatible nano-silver/calcium hydroxyapatite composite for antimicrobial activities. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103404.	4.9	24
114	Stability and thermal conductivity of CuO nanowire for catalytic applications. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103255.	6.7	23
115	A facile approach of adsorption of acid blue 9 on aluminium silicate-coated Fuller's Earth-Equilibrium and kinetics studies. <i>Surfaces and Interfaces</i> , 2020, 19, 100503.	3.0	23
116	In-vitro anti-cancer activity of organic template-free hierarchical M (Cu, Ni)-modified ZSM-5 zeolites synthesized using silica source waste material. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 186, 178-188.	3.8	22
117	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> , 2018, 18, 4544-4550.	0.9	22
118	Temperature effect on CuO nanoparticles: Antimicrobial activity towards bacterial strains. <i>Surfaces and Interfaces</i> , 2020, 21, 100761.	3.0	22
119	Investigation of structural and optical properties of NiO nanoparticles mediated by <i>Plectranthus amboinicus</i> leaf extract. <i>Materials Today: Proceedings</i> , 2021, 36, 268-272.	1.8	22
120	Regeneration study of MB in recycling runs over nickel vanadium oxide by solvent extraction for photocatalytic performance for wastewater treatments. <i>Environmental Research</i> , 2022, 211, 112970.	7.5	22
121	Green synthesized hydroxyapatite nanoadsorbent for the adsorptive removal of AB113 dye for environmental applications. <i>Environmental Research</i> , 2022, 212, 113274.	7.5	22
122	Pseudo-first kinetics model of copper doping on the structural, magnetic, and photocatalytic activity of magnesium oxide nanoparticles for energy application. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 3427-3437.	4.6	22
123	Nanostructured Metal Tellurides and Their Heterostructures for Thermoelectric Applications-A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6680-6707.	0.9	21
124	An investigation of structural, magnetical, optical, antibacterial and humidity sensing of Zr(MoO ₄) ₂ -ZrO ₂ nanocomposites. <i>Surfaces and Interfaces</i> , 2019, 16, 132-140.	3.0	21
125	A Green approach: synthesis, characterization and opto-magnetic properties of Mg _x Mn _{1-x} Fe ₂ O ₄ spinel nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10321-10329.	2.2	20
126	Investigation on preferably oriented abnormal growth of CdSe nanorods along (0002) plane synthesized by henna leaf extract-mediated green synthesis. <i>Royal Society Open Science</i> , 2018, 5, 171430.	2.4	19

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127	Selectivity, stability and reproducibility effect of CeM - CeO ₂ modified PIGE electrode for photoelectrochemical behaviour of energy application. Surfaces and Interfaces, 2021, 22, 100835.	3.0	19
128	Microwave assisted green synthesis of CuO nanoparticles for environmental applications. Materials Today: Proceedings, 2021, 36, 427-434.	1.8	19
129	Preparation and characterization of Fe doped n-hydroxyapatite for biomedical application. Surfaces and Interfaces, 2021, 25, 101185.	3.0	18
130	Laser induced plant leaf extract mediated synthesis of CuO nanoparticles and its photocatalytic activity. Environmental Research, 2022, 212, 113295.	7.5	18
131	Structural, Morphological and Methanol Sensing Properties of Jet Nebulizer Spray Pyrolysis Effect of TiO ₂ Doped SnO ₂ Thin Film for Removal of Heavy Metal Ions. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 1543-1551.	0.5	17
132	Investigation of structural and electrical properties of lithium cobalt oxide nanoparticles for optoelectronic applications. Surfaces and Interfaces, 2020, 20, 100582.	3.0	13
133	Quantum confinement of lead titanate nanocrystals by wet chemical method. Journal of Alloys and Compounds, 2015, 649, 50-53.	5.5	12
134	Functionalization effect of HAp with copper (Cu) having excellent dielectric applications. Surfaces and Interfaces, 2020, 19, 100474.	3.0	12
135	Improved Ag doped Bi ₂ S ₃ nanowire-based photodiode: Fabrication and performance. Materials Letters, 2021, 302, 130403.	2.6	12
136	Nonlinear optical properties of single crystal of L-OOMHCL incorporation with Glycine Oxalic Acid (GOA) with high chemical stability for optoelectronic applications. Surfaces and Interfaces, 2020, 18, 100417.	3.0	11
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