

K Kaviyarasu

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

11,246
citations

14655

66
h-index

33894

99
g-index

162
all docs

162
docs citations

162
times ranked

7869
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Shockwave treated seed germination and physiological growth of <i>Vigna mungo</i> (L) in red soil environment. <i>Physiological and Molecular Plant Pathology</i> , 2022, 117, 101747.	2.5	6
6	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
7	Reproducibility and long-term stability of Sn doped MnO ₂ nanostructures: Practical photocatalytic systems and wastewater treatment applications. <i>Chemosphere</i> , 2022, 293, 133646.	8.2	48
8	Exploring and fine tuning the properties of one dimensional Bi ₂ S ₃ nanorods. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163785.	5.5	9
9	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
10	Superparamagnetic hematite spheroids synthesis, characterization, and catalytic activity. <i>Chemosphere</i> , 2022, 294, 133730.	8.2	25
11	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
12	Laser induced plant leaf extract mediated synthesis of CuO nanoparticles and its photocatalytic activity. <i>Environmental Research</i> , 2022, 212, 113295.	7.5	18
13	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
14	Green synthesized hydroxyapatite nanoadsorbent for the adsorptive removal of AB113 dye for environmental applications. <i>Environmental Research</i> , 2022, 212, 113274.	7.5	22
15	Facile synthesis of ZnO-NPs from yellow creeping daisy (<i>Sphagneticola trilobata</i> L.) attenuates cell proliferation by inducing cellular level apoptosis against colon cancer. <i>Journal of King Saud University - Science</i> , 2022, 34, 102084.	3.5	7
16	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
17	One step microwave assisted synthesis of praseodymium orthoferrite nanoparticles: Rietveld refinement phase matching, optical, and magnetic property analysis. <i>Physica B: Condensed Matter</i> , 2022, 639, 414019.	2.7	10
18	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

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19	A novel approach for engineering efficient nanofluids by radiolysis. Scientific Reports, 2022, 12, .	3.3	2
20	Photocatalytic degradation effect of CdSe nanoparticles for textile wastewater effluents at low cost and proves to be efficient method. Environmental Research, 2022, 213, 113595.	7.5	7
21	Self-assembly of CdSe 3D urchins and their photocatalytic response. Environmental Research, 2022, 214, 113804.	7.5	3
22	Photoelectrocatalytic activity PbO ₂ loaded highly oriented TiO ₂ nanotubes arrays. Materials Today: Proceedings, 2021, 36, 325-327.	1.8	2
23	Self-organization of layered perovskites on TiO ₂ nanotubes surface by atomic layer deposition. Materials Today: Proceedings, 2021, 36, 364-367.	1.8	10
24	Investigation of structural and optical properties of NiO nanoparticles mediated by Plectranthus amboinicus leaf extract. Materials Today: Proceedings, 2021, 36, 268-272.	1.8	22
25	Synthesis and characterization of nano-hydroxyapatite/graphene oxide composite materials for medical implant coating applications. Materials Today: Proceedings, 2021, 36, 204-207.	1.8	32
26	Synthesis and characterization of CeO ₂ nanoparticles by hydrothermal method. Materials Today: Proceedings, 2021, 36, 130-132.	1.8	11
27	Robust Hg _{0.023} WO ₃ nanoparticles: Synthesis, characterization and application as relative humidity sensing material and photocatalyst for degradation of organic dye contamination. Materials Today: Proceedings, 2021, 36, 192-198.	1.8	1
28	Superficial preparation of biocompatible carbon quantum dots for antimicrobial applications. Materials Today: Proceedings, 2021, 36, 171-174.	1.8	4
29	Zinc zirconate (ZnZrO ₃) nanocomposites bimetallic designed by green synthesis via Moringa Oleifera extract for high-performance electrochemical applications. Materials Today: Proceedings, 2021, 36, 401-407.	1.8	9
30	Effect of doping concentration for the properties of Fe doped TiO ₂ thin films applications. Materials Today: Proceedings, 2021, 36, 468-474.	1.8	8
31	Two step synthesis of vanadium pentoxide thin films for optoelectronic applications. Materials Today: Proceedings, 2021, 36, 464-467.	1.8	6
32	Unstable cell efficiency in CdS quantum dot sensitized solar cell using low cost lugols iodine aqueous electrolyte. Materials Today: Proceedings, 2021, 36, 159-162.	1.8	7
33	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
34	Advanced applications of magnetic nanoparticles in water purification. , 2021, , 373-394.		1
35	Microwave assisted green synthesis of CuO nanoparticles for environmental applications. Materials Today: Proceedings, 2021, 36, 427-434.	1.8	19
36	Current trends of Silver doped Zinc oxide nanowires photocatalytic degradation for energy and environmental application. Surfaces and Interfaces, 2021, 23, 100931.	3.0	41

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37	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
38	Synthesis and characterization of Sn-doped TiO ₂ film for antibacterial applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	7
39	A novel biogenic <i>Allium cepa</i> leaf mediated silver nanoparticles for antimicrobial, antioxidant, and anticancer effects on MCF-7 cell line. <i>Environmental Research</i> , 2021, 198, 111199.	7.5	46
40	Synthesis and characterization of TiO ₂ doped cobalt ferrite nanoparticles via microwave method: Investigation of photocatalytic performance of congo red degradation dye. <i>Surfaces and Interfaces</i> , 2021, 25, 101296.	3.0	60
41	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
42	Preparation and characterization of Fe doped n-hydroxyapatite for biomedical application. <i>Surfaces and Interfaces</i> , 2021, 25, 101185.	3.0	18
43	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
44	Improved Ag doped Bi ₂ S ₃ nanowire-based photodiode: Fabrication and performance. <i>Materials Letters</i> , 2021, 302, 130403.	2.6	12
45	Systematic green synthesis of silver oxide nanoparticles for antimicrobial activity. <i>Environmental Research</i> , 2021, 202, 111627.	7.5	55
46	Biosynthesis, characterization, and antibacterial activity of gold nanoparticles. <i>Journal of Infection and Public Health</i> , 2021, 14, 1842-1847.	4.1	96
47	Gum mediated synthesis and characterization of CuO nanoparticles towards infectious disease-causing antimicrobial resistance microbial pathogens. <i>Journal of Infection and Public Health</i> , 2021, 14, 1893-1902.	4.1	46
48	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
49	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
50	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
51	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
52	Nonlinear optical properties of single crystal of L-OOMHCL incorporation with Glycine Oxalic Acid (GOA) with high chemical stability for optoelectronic applications. <i>Surfaces and Interfaces</i> , 2020, 18, 100417.	3.0	11
53	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
54	Structural and optical properties of nickel oxide nanoparticles: Investigation of antimicrobial applications. <i>Surfaces and Interfaces</i> , 2020, 18, 100460.	3.0	66

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55	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
56	Investigation of structural and electrical properties of lithium cobalt oxide nanoparticles for optoelectronic applications. <i>Surfaces and Interfaces</i> , 2020, 20, 100582.	3.0	13
57	Temperature effect on CuO nanoparticles: Antimicrobial activity towards bacterial strains. <i>Surfaces and Interfaces</i> , 2020, 21, 100761.	3.0	22
58	Influence of solvent and precursor concentration on the properties of NiV ₂ O ₆ nanoparticles. <i>Surfaces and Interfaces</i> , 2020, 21, 100711.	3.0	5
59	Studies of MnO ₂ /g-C ₃ N ₄ hetrostructure efficient of visible light photocatalyst for pollutants degradation by sol-gel technique. <i>Surfaces and Interfaces</i> , 2020, 20, 100512.	3.0	112
60	A facile approach of adsorption of acid blue 9 on aluminium silicate-coated Fuller's Earth "â€" Equilibrium and kinetics studies. <i>Surfaces and Interfaces</i> , 2020, 19, 100503.	3.0	23
61	Biosynthesis of silver nanoparticles using phyllanthus emblica fruit extract for antimicrobial application. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101567.	3.1	99
62	Remarkable thermal conductivity enhancement in Ag "â€" decorated graphene nanocomposites based nanofluid by laser liquid solid interaction in ethylene glycol. <i>Scientific Reports</i> , 2020, 10, 10982.	3.3	25
63	Functionalization effect of HAp with copper (Cu) having excellent dielectric applications. <i>Surfaces and Interfaces</i> , 2020, 19, 100474.	3.0	12
64	Electrical and chemical stability of CuS nanofluids for conductivity of water soluble based nanocomposites. <i>Surfaces and Interfaces</i> , 2020, 19, 100475.	3.0	11
65	Chrysin-Loaded Chitosan Nanoparticles Potentiates Antibiofilm Activity against <i>Staphylococcus aureus</i> . <i>Pathogens</i> , 2020, 9, 115.	2.8	51
66	Photocatalytic oxygen evolution reaction for energy conversion and storage of functional nanomaterials. , 2020, , 55-81.		3
67	Modelling Nanoparticles Parameters for Antimicrobial Activity. , 2020, , 83-99.		0
68	Spectroscopic, quantum chemical, molecular docking and inÂvitro anticancer activity studies on 5-Methoxyindole-3-carboxaldehyde. <i>Journal of Molecular Structure</i> , 2019, 1197, 134-146.	3.6	38
69	Stability and thermal conductivity of CuO nanowire for catalytic applications. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103255.	6.7	23
70	A comparative study of structural and photocatalytic mechanism of AgGaO ₂ nanocomposites for equilibrium and kinetics evaluation of adsorption parameters. <i>Surfaces and Interfaces</i> , 2019, 17, 100375.	3.0	43
71	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
72	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

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73	Green synthesis of ZnO nanoparticle using Prunus dulcis (Almond Gum) for antimicrobial and supercapacitor applications. Surfaces and Interfaces, 2019, 17, 100376.	3.0	87
74	Investigation on antibacterial and photocatalytic degradation of Rhodamine-B dye under visible light irradiation by titanium molybdate nanoparticles prepared via microwave method. Surfaces and Interfaces, 2019, 17, 100381.	3.0	24
75	Synthesis and antimicrobial photodynamic effect of methylene blue conjugated carbon nanotubes on E. coli and S. aureus. Photochemical and Photobiological Sciences, 2019, 18, 563-576.	2.9	80
76	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
77	Improved photocatalytic decomposition of aqueous Rhodamine-B by solar light illuminated hierarchical yttria nanosphere decorated ceria nanorods. Journal of Materials Research and Technology, 2019, 8, 2898-2909.	5.8	104
78	An investigation of structural, magnetical, optical, antibacterial and humidity sensing of Zr(MoO ₄) ₂ -ZrO ₂ nanocomposites. Surfaces and Interfaces, 2019, 16, 132-140.	3.0	21
79	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
80	Salt Leaching Synthesis, Characterization and In Vitro Cytocompatibility of Chitosan/Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 06 Nanoscience and Nanotechnology, 2019, 19, 4447-4457.	0.9	34
81	Structural, optical and MÃssbauer investigation on the biosynthesized $\hat{\pm}$ -Fe ₂ O ₃ : Study on different precursors. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 111, 152-157.	2.7	38
82	Development and characterization of alginate / chitosan nanoparticulate system for hydrophobic drug encapsulation. Journal of Drug Delivery Science and Technology, 2019, 52, 65-72.	3.0	98
83	Preparation, Characterization and Structure Prediction of In₂SnO₃ and Spectroscopic (FT-IR, FT-Raman, NMR and UV-Visible) Study Using Computational Approach. Journal of Nanoscience and Nanotechnology, 2019, 19, 3511-3518.	0.9	8
84	Catalytic studies of NiFe ₂ O ₄ nanoparticles prepared by conventional and microwave combustion method. Materials Chemistry and Physics, 2019, 221, 11-28.	4.0	88
85	Rapid biosynthesis and characterization of silver nanoparticles from the leaf extract of Tropaeolum majus L. and its enhanced in-vitro antibacterial, antifungal, antioxidant and anticancer properties. Journal of Photochemistry and Photobiology B: Biology, 2019, 191, 65-74.	3.8	213
86	Synthesis and characterization of CuO/ZnO/CNTs thin films on copper substrate and its photocatalytic applications. OpenNano, 2019, 4, 100025.	4.8	74
87	ZnO doped single wall carbon nanotube as an active medium for gas sensor and solar absorber. Journal of Materials Science: Materials in Electronics, 2019, 30, 147-158.	2.2	88
88	Antioxidant and Photocatalytic Activity of Aqueous Leaf Extract Mediated Green Synthesis of Silver Nanoparticles Using <i>Passiflora edulis f. flavicarpa</i> . Journal of Nanoscience and Nanotechnology, 2019, 19, 2640-2648.	0.9	121
89	Visible active reduced graphene oxide loaded titania for photodecomposition of ciprofloxacin and its antibacterial activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 564, 23-30.	4.7	82
90	Green Synthesis of Co₃O₄ Nanorods for Highly Efficient Catalytic, Photocatalytic, and Antibacterial Activities. Journal of Nanoscience and Nanotechnology, 2019, 19, 2590-2598.	0.9	25

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91	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
92	Development and Characterization of Sodium Alginate/Poly(vinyl alcohol) Blend Scaffold with Ciprofloxacin Loaded in Controlled Drug Delivery System. Journal of Nanoscience and Nanotechnology, 2019, 19, 2493-2500.	0.9	26
93	One step green synthesis of larvicidal, and azo dye degrading antibacterial nanoparticles by response surface methodology. Journal of Photochemistry and Photobiology B: Biology, 2019, 190, 154-162.	3.8	121
94	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
95	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
96	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
97	Green synthesis of NiO nanoparticles using Aegle marmelos leaf extract for the evaluation of in-vitro cytotoxicity, antibacterial and photocatalytic properties. Journal of Photochemistry and Photobiology B: Biology, 2018, 180, 39-50.	3.8	281
98	Eco-friendly preparation of zinc oxide nanoparticles using Tabernaemontana divaricata and its photocatalytic and antimicrobial activity. Journal of Photochemistry and Photobiology B: Biology, 2018, 181, 53-58.	3.8	282
99	Anti-cancer activity of hierarchical ZSM-5 zeolites synthesized from rice-based waste materials. RSC Advances, 2018, 8, 481-490.	3.6	62
100	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. Journal of Alloys and Compounds, 2018, 748, 216-222.	5.5	56
101	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
102	Investigation on preferably oriented abnormal growth of CdSe nanorods along (0002) plane synthesized by henna leaf extract-mediated green synthesis. Royal Society Open Science, 2018, 5, 171430.	2.4	19
103	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. Green Chemistry Letters and Reviews, 2018, 11, 166-175.	4.7	76
104	In vitro cytocompatibility of chitosan/PVA/methylcellulose @ Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. Applied Surface Science, 2018, 449, 574-583.	6.1	55
105	Antimicrobial photodynamic inactivation of fungal biofilm using amino functionalized mesoporous silica-rose bengal nanoconjugate against Candida albicans. Scientific African, 2018, 1, e00007.	1.5	40
106	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. South African Journal of Chemical Engineering, 2018, 26, 49-60.	2.4	124
107	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
108	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

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109	Nanostructured Metal Tellurides and Their Heterostructures for Thermoelectric Applicationsâ€”A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6680-6707.	0.9	21
110	Equilibrium and kinetic studies of the adsorption of acid blue 9 and Safranin O from aqueous solutions by MgO decorated FLC coated Fuller's earth. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 43-51.	4.0	127
111	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
112	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
113	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
114	High Performance Photo-Catalyst Based on Nanosized ZnOâ€”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
115	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
116	Optical and Structural Properties of Fluorine Doped SnO ₂ on Si (100) for Photovoltaic Application. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018, 13, 1522-1532.	0.5	5
117	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. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018, 13, 1543-1551.	0.5	17
118	ZnO nanoparticles via Moringa oleifera green synthesis: Physical properties & mechanism of formation. <i>Applied Surface Science</i> , 2017, 406, 339-347.	6.1	458
119	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
120	Photocatalytic degradation effect of malachite green and catalytic hydrogenation by UVâ€”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
121	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
122	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
123	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
124	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
125	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
126	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

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127	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
128	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
129	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
130	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
131	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
132	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
133	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
134	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
135	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
136	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
137	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
138	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
139	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
140	Studies on the efficient dual performance of Mn ¹⁺ xNi _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
141	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
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147	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
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