

Rajendran Venkatachalam

List of Publications by Year in descending order

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204
papers

6,300
citations

66343

42
h-index

98798

67
g-index

206
all docs

206
docs citations

206
times ranked

7330
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica incorporated chitosan-sodium alginate nanocomposite scaffolds for tissue engineering applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 537-549.	3.4	3
2	Biomimetic development of chitosan and sodium alginate-based nanocomposites contains zirconia for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1942-1955.	3.4	4
3	Investigation on temperature-dependent structural, dielectric and impedance characteristics of Cu-doped $\text{CaFe}_x\text{Ti}_{1-x}\text{O}_3$ nanotitanates. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22076-22092.	2.2	6
4	Biomimetic TiO_2 -chitosan/sodium alginate blended nanocomposite scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2020, 110, 110710.	7.3	65
5	Effects of rare earth, transition and post transition metal ions on structural and optical properties and photocatalytic activities of zirconia (ZrO_2) nanoparticles synthesized via the facile precipitation process. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114342.	2.7	40
6	Functional and antimicrobial properties of herbal nanocomposites from Piper betle plant leaves for enhanced cotton fabrics. <i>Journal of Coatings Technology Research</i> , 2020, 17, 1363-1375.	2.5	5
7	Wet chemical preparation of herbal nanocomposites from medicinal plant leaves for enhanced coating on textile fabrics with multifunctional properties. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	7
8	Enhanced discharge capacity of Mg-air battery with addition of water dispersible nano MoS_2 sheet in MgCl_2 electrolyte. <i>Ionics</i> , 2019, 25, 583-592.	2.4	8
9	Influence of nanoflower FeTiO_3 in carbon dioxide reduction. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	8
10	A sensitive refining of in vitro and in vivo toxicological behavior of green synthesized ZnO nanoparticles from the shells of <i>Jatropha curcas</i> for multifunctional biomaterials development. <i>Ecotoxicology and Environmental Safety</i> , 2019, 184, 109621.	6.0	25
11	Stabilization of tetragonal zirconia in alumina-zirconia and alumina-yttria stabilized zirconia nanocomposites: A comparative structural analysis. <i>Materials Characterization</i> , 2019, 158, 109964.	4.4	17
12	Water-dispersible graphene-wrapped MnO_2 nanospheres and their applications in coin cell supercapacitors. <i>Ionics</i> , 2019, 25, 4425-4436.	2.4	4
13	Enhanced Photovoltaic Performance of Hybrid Solar Cells with a Calcium Interfacial Metal Electrode. <i>Journal of Electronic Materials</i> , 2019, 48, 4589-4597.	2.2	6
14	Novel modified nano-activated carbon and its influence on the metal-O ₂ battery system. <i>Journal of Energy Storage</i> , 2019, 22, 283-294.	8.1	12
15	Silicon confers protective effect against ginseng root rot by regulating sugar efflux into apoplast. <i>Scientific Reports</i> , 2019, 9, 18259.	3.3	11
16	Influence of the various synthesis methods on the ZnO nanoparticles property made using the bark extract of <i>Terminalia arjuna</i> . <i>Materials Chemistry and Physics</i> , 2018, 209, 208-216.	4.0	47
17	Characterization of Ca doped CeO_2 quantum dots and their applications in photocatalytic degradation. <i>OpenNano</i> , 2018, 3, 38-47.	4.8	33
18	Enhancing the thermophysical and tribological performance of gear oil using Ni-promoted ultrathin MoS_2 nanocomposites. <i>Tribology International</i> , 2018, 124, 156-168.	5.9	29

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19	Structural, optical and photocatalytic applications of biosynthesized NiO nanocrystals. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 166-175.	4.7	76
20	Ultrathin sheet structure Ni-MoS ₂ anode and MnO ₂ /water dispersion graphene cathode for modern asymmetrical coin cell supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018, 731, 936-944.	5.5	20
21	Enhancing of the tribological characteristics of the lubricant oils using Ni-promoted MoS ₂ nanosheets as nano-additives. <i>Tribology International</i> , 2018, 118, 314-328.	5.9	101
22	Study on Production of Silicon Nanoparticles from Quartz Sand for Hybrid Solar Cell Applications. <i>Journal of Electronic Materials</i> , 2018, 47, 493-502.	2.2	19
23	<i>In vitro</i> and <i>in vivo</i> characteristics of biogenic high surface silica nanoparticles in A549 lung cancer cell lines and <i>Danio rerio</i> model systems for inorganic biomaterials development. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1415-1424.	2.8	19
24	Light trapping and power conversion efficiency of P3HT/nano Si hybrid solar cells. <i>RSC Advances</i> , 2018, 8, 35162-35169.	3.6	1
25	Influence of solvents on the changes in structure, purity, and <i>in vitro</i> characteristics of green-synthesized ZnO nanoparticles from <i>Costus igneus</i> . <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1353-1360.	3.1	13
26	Screening the UV-blocking and antimicrobial properties of herbal nanoparticles prepared from <i>Aloe vera</i> leaves for textile applications. <i>IET Nanobiotechnology</i> , 2018, 12, 459-465.	3.8	31
27	<i>Psidium guajava</i> leaf extract-mediated synthesis of ZnO nanoparticles under different processing parameters for hydrophobic and antibacterial finishing over cotton fabrics. <i>Progress in Organic Coatings</i> , 2018, 124, 80-91.	3.9	60
28	Bioaccumulation of Transition Metal Oxide Nanoparticles and Their Influence on Early Growth Stages of <i>Vigna unguiculata</i> Seeds. <i>BioNanoScience</i> , 2018, 8, 752-760.	3.5	4
29	Ferromagnetic-paramagnetic transition temperature in bulk and nanostructured La _{0.7} Sr _x Ca _{0.3-^x} MnO ₃ (x=0.10, 0.15, and 0.20) manganite materials. <i>Rare Metals</i> , 2017, 36, 501-511.	7.1	6
30	In Focus section: NANO-15. <i>Polymer International</i> , 2017, 66, 341-341.	3.1	0
31	Structural and phase transition of Mg-doped on Mn-site in La _{0.7} Sr _{0.3} MnO ₃ bulk/nanostructured perovskite characterised through online ultrasonic technique. <i>South African Journal of Chemical Engineering</i> , 2017, 23, 50-61.	2.4	5
32	Effect of EDTA on cadmium sulfide thin films for oxygen gas sensor applications. <i>Journal of Alloys and Compounds</i> , 2017, 706, 470-477.	5.5	23
33	An efficient photoanode for dye sensitized solar cells using naturally derived S/TiO ₂ nanoparticles. <i>Materials Research Express</i> , 2017, 4, 035016.	1.6	10
34	Electrocatalytic conversion of carbon dioxide to urea on nano-FeTiO ₃ surface. <i>Ionics</i> , 2017, 23, 1871-1878.	2.4	32
35	<i>Acalypha indica</i> 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.	4.1	143
36	Investigation and characterization of ZnO/CdS nanocomposites using chemical precipitation method for gas sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18113-18120.	2.2	10

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37	Larvicidal, super hydrophobic and antibacterial properties of herbal nanoparticles from <i>Acalypha indica</i> for biomedical applications. <i>RSC Advances</i> , 2017, 7, 41763-41770.	3.6	30
38	Gas sensing behaviour of cerium oxide and magnesium aluminate composites. <i>Bulletin of Materials Science</i> , 2017, 40, 667-682.	1.7	7
39	A lucrative chemical processing of bamboo leaf biomass to synthesize biocompatible amorphous silica nanoparticles of biomedical importance. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 145-153.	3.1	67
40	An ecofriendly route to enhance the antibacterial and textural properties of cotton fabrics using herbal nanoparticles from <i>Azadirachta indica</i> (neem). <i>Journal of Alloys and Compounds</i> , 2017, 723, 698-707.	5.5	31
41	Magnetic behavior of biosynthesized Co ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 251-255.	2.3	50
42	Influence of ball milling on the particle size and antimicrobial properties of <i>Tridax procumbens</i> leaf nanoparticles. <i>IET Nanobiotechnology</i> , 2017, 11, 12-17.	3.8	17
43	Online ultrasonic characterization of La _{1-x} NaxMnO ₃ : Bulk and nanostructured perovskites. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 278-287.	1.6	3
44	Investigation of graphene-metal substrates for SPR-based sensor using finite-difference time domain. <i>IET Nanobiotechnology</i> , 2017, 11, 981-986.	3.8	20
45	Synthesis and Characterisation of Nanocomposites of TiO ₂ and MgAl ₂ O ₄ for Gas Sensing Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1307-1320.	0.9	2
46	Enhanced functional properties of cotton fabrics using TiO ₂ /SiO ₂ nanocomposites. <i>Journal of Industrial Textiles</i> , 2016, 45, 674-692.	2.4	25
47	Synthesis of Geikielite (MgTiO ₃) Nanoparticles via Sol-Gel Method and Studies on Their Structural and Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7635-7641.	0.9	15
48	Physical & enhanced photocatalytic properties of green synthesized SnO ₂ nanoparticles via <i>Aspalathus linearis</i> . <i>Journal of Alloys and Compounds</i> , 2016, 681, 561-570.	5.5	136
49	EDTA-Decorated Nanostructured ZnO/CdS Thin Films for Oxygen Gas Sensing Applications. <i>Journal of Electronic Materials</i> , 2016, 45, 4100-4107.	2.2	14
50	Investigation on electrical conductivity of strontium (Sr ²⁺) influenced CaTi _{0.8} Fe _{0.2} O ₃ ; polycrystalline perovskite. , 2016, , .		3
51	Electrochemical supercapacitor studies of porous MnO ₂ nanoparticles in neutral electrolytes. <i>Materials Chemistry and Physics</i> , 2016, 183, 375-382.	4.0	31
52	Influence of ZrO ₂ , SiO ₂ , Al ₂ O ₃ and TiO ₂ nanoparticles on maize seed germination under different growth conditions. <i>IET Nanobiotechnology</i> , 2016, 10, 171-177.	3.8	58
53	Antibacterial activity of hybrid chitosan-cupric oxide nanoparticles on cotton fabric. <i>IET Nanobiotechnology</i> , 2016, 10, 13-19.	3.8	18
54	Structural and Electrical Properties of Cadmium Sulfide Nanoparticles: A Simple Chemical Route. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 1642-1646.	0.6	11

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55	Corrosion behavior of Mg/graphene composite in aqueous electrolyte. <i>Materials Chemistry and Physics</i> , 2016, 172, 129-136.	4.0	66
56	High temperature corrosion resistance of silicate based nanostructured thermal barrier coatings using Al ₂ O ₃ -(Y ₂ O ₃) ZrO ₂ /SiO ₂ nanocomposite. <i>Surface and Coatings Technology</i> , 2016, 292, 110-120.	4.8	14
57	Fabrication of Nanocomposites of SnO ₂ and MgAl ₂ O ₄ for Gas Sensing Applications. <i>Journal of Electronic Materials</i> , 2016, 45, 2193-2205.	2.2	10
58	Sensitivity and Response of Polyvinyl Alcohol/Tin Oxide Nanocomposite Multilayer Thin Film Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1008-1017.	0.9	6
59	Synthesis of Nothapodytes Nimmoniana Leaf Nanoparticles for Antireflective and Self-Cleaning Applications. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 1445-1449.	0.6	6
60	Electrical and magnetic behavior of iron doped nickel titanate (Fe ³⁺ /NiTiO ₃) magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 397, 281-286.	2.3	33
61	Study of structural and optical properties of cupric oxide nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 933-939.	3.1	275
62	Temperature dependent ultrasonic and thermo-physical properties of polyaniline nanofibers reinforced epoxy composites. <i>Composites Part B: Engineering</i> , 2016, 87, 40-46.	12.0	17
63	In situ synthesised TiO ₂ -chitosan-chondroitin 4-sulphate nanocomposites for bone implant applications. <i>IET Nanobiotechnology</i> , 2016, 10, 107-113.	3.8	7
64	Comparative Study on Isolation and Characterization of Amorphous Silica Nanoparticles From Different Grades of Rice Hulls. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 445-452.	0.6	9
65	Effect of temperature on the electrical properties of nanocrystalline CaTi _{1-x} Fe _x O ₃ perovskite. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 620-630.	2.2	4
66	Comparative Study of Addition of Amorphous Nanosilica Particles with Different Grades of Cement Mortar. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E14.	2.1	5
67	Size-dependent physicochemical properties of mesoporous nanosilica produced from natural quartz sand using three different methods. <i>RSC Advances</i> , 2015, 5, 47390-47397.	3.6	28
68	Effect of contact angle, zeta potential and particles size on the <i>in vitro</i> studies of Al ₂ O ₃ and SiO ₂ nanoparticles. <i>IET Nanobiotechnology</i> , 2015, 9, 27-34.	3.8	26
69	Investigation Into Gas-Sensing Mechanism of Nanostructured Magnesium Aluminate as a Function of Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5112-5122.	0.9	4
70	Mg-Doped Hydroxyapatite/Chitosan Composite Coated 316L Stainless Steel Implants for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4178-4187.	0.9	23
71	Effect of high temperature on the surface morphology and mechanical properties of nanostructured Al ₂ O ₃ -ZrO ₂ /SiO ₂ thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2015, 262, 154-165.	4.8	10
72	In vitro and preliminary in vivo toxicity screening of high-surface-area TiO ₂ -chondroitin-4-sulfate nanocomposites for bone regeneration application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 347-356.	5.0	16

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73	Nano alumina-zirconia blended epoxy polymeric composites for anticorrosive applications. Journal of Sol-Gel Science and Technology, 2015, 74, 460-471.	2.4	7
74	Synthesis of TiO ₂ -doped mesoporous nanobioactive glass particles and their cytocompatibility against osteoblast cell line. Journal of Materials Science, 2015, 50, 5145-5156.	3.7	6
75	Facile and novel synthetic method to prepare nano molybdenum and its catalytic activity. IET Nanobiotechnology, 2015, 9, 201-208.	3.8	2
76	Water soluble graphene as electrolyte additive in magnesium-air battery system. Journal of Power Sources, 2015, 276, 32-38.	7.8	73
77	Electrochemical Deposition of Si ₂ O ₃ Ca ₂ O ₅ Nanobioactive Glass Particles on Ti-4V Alloy for Biomedical Applications. International Journal of Applied Ceramic Technology, 2015, 12, 95-105.	2.1	5
78	Bioactivity of Zirconium-Substituted Nanobioactive Glass Particles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2015, 45, 92-96.	0.6	7
79	Chemically and electrochemically prepared graphene/MnO ₂ nanocomposite electrodes for zinc primary cells: a comparative study. Ionics, 2015, 21, 791-799.	2.4	5
80	Rambutan peels promoted biomimetic synthesis of bioinspired zinc oxide nanochains for biomedical applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 250-258.	3.9	138
81	Toxicity evaluation based on particle size, contact angle and zeta potential of SiO ₂ and Al ₂ O ₃ on the growth of green algae. Advances in Nano Research, 2015, 3, 243-255.	0.9	9
82	Electrochemical capacitor study of spherical MnO ₂ nanoparticles utilizing neutral electrolytes. Frontiers in Nanoscience and Nanotechnology, 2015, 1, 13-20.	0.3	15
83	<i>In Vitro</i> Bioactivity and Antimicrobial Tuning of Bioactive Glass Nanoparticles Added with Neem (<i>Azadirachta indica</i>) Leaf Powder. BioMed Research International, 2014, 2014, 1-10.	1.9	33
84	Hydrophobic and thermal behaviour of nylon 6 nanofibre web deposited on cotton fabric through electrospinning. Micro and Nano Letters, 2014, 9, 519-522.	1.3	3
85	Development of functional hybrid cotton fabrics by coating with SiO ₂ and ZrO ₂ /SiO ₂ composites. Micro and Nano Letters, 2014, 9, 717-720.	1.3	2
86	Enhancement of Thermal Stability, Flame Retardancy, and Antimicrobial Properties of Cotton Fabrics Functionalized by Inorganic Nanocomposites. Industrial & Engineering Chemistry Research, 2014, 53, 19512-19524.	3.7	49
87	Inexpensive approach for production of high surface area silica nanoparticles from rice hulls biomass. IET Nanobiotechnology, 2014, 8, 290-294.	3.8	19
88	Application of silica nanoparticles in maize to enhance fungal resistance. IET Nanobiotechnology, 2014, 8, 133-137.	3.8	138
89	Electrical measurement of PVA/graphene nanofibers for transparent electrode applications. Synthetic Metals, 2014, 191, 113-119.	3.9	35
90	Chitosan-incorporated different nanocomposite HPMC films for food preservation. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	40

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91	Effect of silica nanoparticles on microbial biomass and silica availability in maize rhizosphere. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 668-675.	3.1	48
92	Dye-sensitized solar cells based on visible-light-active TiO ₂ heterojunction nanoparticles. <i>Synthetic Metals</i> , 2014, 188, 124-129.	3.9	20
93	Enhancement of UV Property on Cotton Fabric by TiO ₂ Nanorods. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 748-758.	0.6	5
94	Hydrophobicity, flame retardancy and antibacterial properties of cotton fabrics functionalised with MgO/methyl silicate nanocomposites. <i>RSC Advances</i> , 2014, 4, 32161.	3.6	47
95	Nano-sized MnO ₂ particles produced by spray pyrolysis for a Zn/MnO ₂ primary cell: comparative discharge performance studies with their bulk counterparts. <i>RSC Advances</i> , 2014, 4, 42129-42136.	3.6	12
96	Augmented biocontrol action of silica nanoparticles and <i>Pseudomonas fluorescens</i> bioformulant in maize (<i>Zea mays</i> L.). <i>RSC Advances</i> , 2014, 4, 8461.	3.6	37
97	In vivo cytotoxicity of MgO-doped nanobioactive glass particles and their anticorrosive coating on Ti-6Al-4V and SS304 implants for high load-bearing applications. <i>RSC Advances</i> , 2014, 4, 43630-43640.	3.6	11
98	In vitro gene expression and preliminary in vivo studies of temperature-dependent titania-graphene nanocomposites for bone replacement applications. <i>RSC Advances</i> , 2014, 4, 43951-43961.	3.6	8
99	Binder-free rice husk-based silicon-graphene composite as energy efficient Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13437-13441.	10.3	109
100	Electrospun MgO/Nylon 6 Hybrid Nanofibers for Protective Clothing. <i>Nano-Micro Letters</i> , 2014, 6, 46-54.	27.0	76
101	Rice husk ash nanosilica to inhibit human breast cancer cell line (3T3). <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 198-205.	2.4	5
102	Foliar Application of Silica Nanoparticles on the Phytochemical Responses of Maize (<i>Zea mays</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf Metal Chemistry</i> , 2014, 44, 1128-1131.	0.6	73
103	TiO ₂ -graphene nanocomposites for enhanced osteocalcin induction. <i>Materials Science and Engineering C</i> , 2014, 38, 252-262.	7.3	38
104	Hydroxyapatite, alumina/zirconia, and nanobioactive glass cement for tooth-restoring applications. <i>Ceramics International</i> , 2014, 40, 14355-14365.	4.8	27
105	High-purity nano silica powder from rice husk using a simple chemical method. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 272-281.	2.4	151
106	Influence of Nano and Bulk SiO ₂ and Al ₂ O ₃ Particles on PGPR and Soil Nutrient Contents. <i>Current Nanoscience</i> , 2014, 10, 604-612.	1.2	21
107	Electrospun MgO/Nylon 6 Hybrid Nanofibers for Protective Clothing. <i>Nano-Micro Letters</i> , 2014, 6, 46.	27.0	4
108	Study on Optical and Dielectric Properties of BaTiO ₃ /Nylon 6 Nanofibers. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 1191-1199.	0.3	0

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109	In-vitro bioactivity, biocorrosion and antibacterial activity of silicon integrated hydroxyapatite/chitosan composite coating on 316L stainless steel implants. <i>Materials Science and Engineering C</i> , 2013, 33, 4046-4054.	7.3	72
110	Structural and optical properties of CdS/PEO nanocomposite solid films. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1502-1507.	4.0	13
111	Production of Al ₂ O ₃ -stabilized Tetragonal ZrO ₂ Nanoparticles for Thermal Barrier Coating. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 887-899.	2.1	21
112	Effect of processing methods on physicochemical properties of titania nanoparticles produced from natural rutile sand. <i>Advanced Powder Technology</i> , 2013, 24, 972-979.	4.1	27
113	Mechanical properties of bulk and nanostructured La _{0.61} Sr _{0.39} MnO ₃ perovskite manganite materials. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 205-214.	4.0	24
114	Metal insulator transition of bulk and nanocrystalline La _{1-x} CaxMnO ₃ perovskite manganite materials through in-situ ultrasonic measurements. <i>Materials Characterization</i> , 2013, 77, 70-80.	4.4	22
115	On-line phase transitions of bulk and nanocrystalline La _{1-x} PbxMnO ₃ (x=0.3, 0.4, and 0.5) perovskite manganite materials using ultrasonic measurements. <i>Materials Chemistry and Physics</i> , 2013, 138, 581-592.	4.0	19
116	Effect of nanosilica and silicon sources on plant growth promoting rhizobacteria, soil nutrients and maize seed germination. <i>IET Nanobiotechnology</i> , 2013, 7, 70-77.	3.8	139
117	Phase transitions of bulk and nanocrystalline La _{1-x} SrxMnO ₃ (x=0.35 and 0.37) perovskite manganite materials using in situ ultrasonic studies. <i>Materials Research Bulletin</i> , 2013, 48, 1651-1659.	5.2	20
118	Nano Silicon from Nano Silica Using Natural Resource (Rha) for Solar Cell Fabrication. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 1178-1193.	1.6	51
119	In situ synthesized novel biocompatible titania-chitosan nanocomposites with high surface area and antibacterial activity. <i>Carbohydrate Polymers</i> , 2013, 93, 731-739.	10.2	77
120	Synthesis, characterization and biological response of magnesium-substituted nanobioactive glass particles for biomedical applications. <i>Ceramics International</i> , 2013, 39, 1683-1694.	4.8	39
121	Enhancement of antimicrobial and long-term biostability of the zinc-incorporated hydroxyapatite coated 316L stainless steel implant for biomedical application. <i>Ceramics International</i> , 2013, 39, 5205-5212.	4.8	47
122	Nanohydroxyapatite-chitosan-gelatin polyelectrolyte complex with enhanced mechanical and bioactivity. <i>Materials Science and Engineering C</i> , 2013, 33, 3237-3244.	7.3	38
123	Screening of in vitro cytotoxicity, antioxidant potential and bioactivity of nano- and micro-ZrO ₂ and -TiO ₂ particles. <i>Ecotoxicology and Environmental Safety</i> , 2013, 93, 191-197.	6.0	62
124	Effect of thermal treatment on hydrophobicity of methyl-functionalised hybrid nano-silica particles. <i>Materials Letters</i> , 2013, 90, 68-71.	2.6	14
125	Mass production of Al ₂ O ₃ and ZrO ₂ nanoparticles by hot-air spray pyrolysis. <i>Powder Technology</i> , 2013, 234, 84-90.	4.2	28
126	Microstructural Characterization of Fatigue and Creep-Fatigue Damaged 316L(N) Stainless Steel Through Ultrasonic Measurements. <i>Procedia Engineering</i> , 2013, 55, 154-159.	1.2	2

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127	Synthesis and characterization of electrochemically-reduced graphene. Bulletin of Materials Science, 2013, 36, 1315-1321.	1.7	33
128	Impact of Nano and Bulk ZrO ₂ , TiO ₂ Particles on Soil Nutrient Contents and PGPR. Journal of Nanoscience and Nanotechnology, 2013, 13, 678-685.	0.9	38
129	Preparation and Characterization of Silver-Doped Nanobioactive Glass Particles and Their <i>In Vitro</i> Behaviour for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2013, 13, 5327-5339.	0.9	14
130	Silver doped nanobioactive glass particles for bone implant applications. , 2013, , .		0
131	Preparation and Characterization of Nano-Hydroxyapatite Nanomaterials for Liver Cancer Cell Treatment. Journal of Nanoscience and Nanotechnology, 2013, 13, 1631-1638.	0.9	19
132	Enhanced Functional Properties of ZrO ₂ /SiO ₂ Hybrid Nanosol Coated Cotton Fabrics. Journal of Nanoscience and Nanotechnology, 2013, 13, 4017-4024.	0.9	18
133	Application of silica nanoparticles for increased silica availability in maize. , 2013, , .		10
134	Synthesis and characterisation of polymeric nanofibers poly (vinyl alcohol) and poly (vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	1.3	23
135	Enhancement of Discharge Capacity of Mg/MnO ₂ Primary Cell with Nano-MnO ₂ as Cathode. Science of Advanced Materials, 2013, 5, 1372-1376.	0.7	8
136	Optimization of Nano-Titania and Titania- <i>Chitosan</i> Nanocomposite to Enhance Biocompatibility. Current Nanoscience, 2013, 9, 308-317.	1.2	26
137	Effect of rare earth ions on transition temperature in perovskite materials by on-line ultrasonic studies. Materials Research, 2012, 15, 517-521.	1.3	7
138	Catalytic Effect of Iron Nanoparticles on Heterocyst, Protein and Chlorophyll Content of <i>Anabaena</i> sp.. International Journal of Green Nanotechnology, 2012, 4, 326-338.	0.3	9
139	Silica Nanoparticles for Increased Silica Availability in Maize (<i>Zea mays</i> . L) Seeds Under Hydroponic Conditions. Current Nanoscience, 2012, 8, 902-908.	1.2	173
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