

Sangeeta Kale

List of Publications by Year in descending order

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91
papers

3,913
citations

136950

32
h-index

123424

61
g-index

92
all docs

92
docs citations

92
times ranked

5663
citing authors

#	ARTICLE	IF	CITATIONS
1	High Temperature Ferromagnetism with a Giant Magnetic Moment in Transparent Co-doped SnO ₂ . Physical Review Letters, 2003, 91, 077205.	7.8	816
2	Synthesis of silver nanoparticles using Dioscorea bulbifera tuber extract and evaluation of its synergistic potential in combination with antimicrobial agents. International Journal of Nanomedicine, 2012, 7, 483.	6.7	288
3	Gnidia glauca flower extract mediated synthesis of gold nanoparticles and evaluation of its chemocatalytic potential. Journal of Nanobiotechnology, 2012, 10, 17.	9.1	174
4	Photonic crystal fiber injected with Fe ₃ O ₄ nanofluid for magnetic field detection. Applied Physics Letters, 2011, 99, .	3.3	167
5	Studies of magnetite nanoparticles synthesized by thermal decomposition of iron (III) acetylacetonate in tri(ethylene glycol). Journal of Magnetism and Magnetic Materials, 2009, 321, 3093-3098.	2.3	147
6	Conjugation of curcumin with PVP capped gold nanoparticles for improving bioavailability. Materials Science and Engineering C, 2012, 32, 2659-2663.	7.3	122
7	Film thickness and temperature dependence of the magnetic properties of pulsed-laser-deposited Fe ₃ O ₄ films on different substrates. Physical Review B, 2001, 64, .	3.2	106
8	Magnetism in cobalt-doped Cu ₂ O thin films without and with Al, V, or Zn codopants. Applied Physics Letters, 2003, 82, 2100-2102.	3.3	98
9	Recent advances in metamaterial split-ring-resonator circuits as biosensors and therapeutic agents. Biosensors and Bioelectronics, 2016, 86, 595-608.	10.1	98
10	Comparative evaluation of MAX, MXene, NanoMAX, and NanoMAX-derived-MXene for microwave absorption and Li ion battery anode applications. Nanoscale, 2020, 12, 8466-8476.	5.6	86
11	Single-layer graphene-assembled 3D porous carbon composites with PVA and Fe ₃ O ₄ nano-fillers: an interface-mediated superior dielectric and EMI shielding performance. Physical Chemistry Chemical Physics, 2015, 17, 18353-18363.	2.8	82
12	Diosgenin Functionalized Iron Oxide Nanoparticles as Novel Nanomaterial Against Breast Cancer. Journal of Nanoscience and Nanotechnology, 2015, 15, 9464-9472.	0.9	78
13	Novel platinum–palladium bimetallic nanoparticles synthesized by Dioscorea bulbifera: anticancer and antioxidant activities. International Journal of Nanomedicine, 2015, 10, 7477.	6.7	75
14	Au sensitized ZnO nanorods for enhanced liquefied petroleum gas sensing properties. Applied Surface Science, 2016, 371, 224-230.	6.1	75
15	ZnO Nanoparticles-Red Sandalwood Conjugate: A Promising Anti-Diabetic Agent. Journal of Nanoscience and Nanotechnology, 2015, 15, 4046-4051.	0.9	70
16	Synthesis of Gold Nanoanisotrops Using <i>Dioscorea bulbifera</i> Tuber Extract. Journal of Nanomaterials, 2011, 2011, 1-8.	2.7	66
17	Mach-Zehnder interferometric photonic crystal fiber for low acoustic frequency detections. Applied Physics Letters, 2016, 108, .	3.3	65
18	<i>Dioscorea bulbifera</i> Mediated Synthesis of Novel Au ₃ Ag ₂ Nanoparticles with Potent Antibiofilm and Antileishmanial Activity. Journal of Nanomaterials, 2015, 2015, 1-12.	2.7	62

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19	Zinc oxide nanoparticles as novel alpha-amylase inhibitors. Journal of Applied Physics, 2008, 104, .	2.5	60
20	Catalyst efficiency, photostability and reusability study of ZnO nanoparticles in visible light for dye degradation. Journal of Physics and Chemistry of Solids, 2011, 72, 60-66.	4.0	60
21	A review on nanomaterial-modified optical fiber sensors for gases, vapors and ions. Mikrochimica Acta, 2019, 186, 253.	5.0	60
22	<i>Adiantum philippense</i> L. Frond Assisted Rapid Green Synthesis of Gold and Silver Nanoparticles. Journal of Nanoparticles, 2013, 2013, 1-9.	1.4	56
23	Protein and polymer immobilized La _{0.7} Sr _{0.3} MnO ₃ nanoparticles for possible biomedical applications. Nanotechnology, 2007, 18, 345101.	2.6	51
24	Characterization of biocompatible NiCo ₂ O ₄ nanoparticles for applications in hyperthermia and drug delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 452-459.	3.3	49
25	Systematic magnetic fluid hyperthermia studies of carboxyl functionalized hydrophilic superparamagnetic iron oxide nanoparticles based ferrofluids. Journal of Colloid and Interface Science, 2018, 514, 534-543.	9.4	49
26	Ultra-fast selective sensing of ethanol and petrol using microwave-range metamaterial complementary split-ring resonators. Journal of Applied Physics, 2014, 116, .	2.5	48
27	Cross-linked chitosan-dextran sulphate vehicle system for controlled release of ciprofloxacin drug: An ophthalmic application. OpenNano, 2017, 2, 28-36.	4.8	41
28	La _{0.7} Sr _{0.3} MnO ₃ nanoparticles coated with fatty amine. Applied Physics Letters, 2006, 89, 023107.	3.3	35
29	Cerium doping and stoichiometry control for biomedical use of La _{0.7} Sr _{0.3} MnO ₃ nanoparticles: microwave absorption and cytotoxicity study. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 217-221.	3.3	35
30	Fe ₃ O ₄ -citrate-curcumin: Promising conjugates for superoxide scavenging, tumor suppression and cancer hyperthermia. Journal of Applied Physics, 2012, 111, .	2.5	35
31	Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. Journal of Colloid and Interface Science, 2016, 480, 109-117.	9.4	33
32	Defect-induced magneto-optic properties of MgO nanoparticles realized as optical-fiber-based low-field magnetic sensor. Applied Physics Letters, 2013, 103, .	3.3	32
33	Nano-carbon: preparation, assessment, and applications for NH ₃ gas sensor and electromagnetic interference shielding. RSC Advances, 2016, 6, 97266-97275.	3.6	32
34	Silica-chitosan nanocomposite mediated pH-sensitive drug delivery. Journal of Drug Delivery Science and Technology, 2019, 49, 345-351.	3.0	31
35	Curcumin-Loaded, Self-Assembled Aloe vera Template for Superior Antioxidant Activity and Trans-Membrane Drug Release. Journal of Nanoscience and Nanotechnology, 2015, 15, 4039-4045.	0.9	29
36	Ampicillin-mediated functionalized gold nanoparticles against ampicillin-resistant bacteria: strategy, preparation and interaction studies. Nanotechnology, 2020, 31, 215604.	2.6	28

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37	Effect of annealing treatment and deposition temperature on CdS thin films for CIGS solar cells applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 7890-7898.	2.2	26
38	Encapsulation of cobalt nanoparticles in cross-linked-polymer cages. Journal of Magnetism and Magnetic Materials, 2009, 321, 2135-2138.	2.3	24
39	Facile synthesis of novel hydrophilic and carboxyl-amine functionalized superparamagnetic iron oxide nanoparticles for biomedical applications. RSC Advances, 2016, 6, 99948-99959.	3.6	23
40	ISM (Industrial Scientific and Medical standard) band flex fuel sensor using electrical metamaterial device. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	23
41	ZnO coated Fabry-Perot interferometric optical fiber for detection of gasoline blend vapors: Refractive index and fringe visibility manipulation studies. Optics and Laser Technology, 2017, 89, 46-53.	4.6	23
42	Microneedles of chitosan-porous carbon nanocomposites: Stimuli (pH and electric field)-initiated drug delivery and toxicological studies. Journal of Biomedical Materials Research - Part A, 2019, 107, 1582-1596.	4.0	22
43	Fe ₃ O ₄ -decorated graphene assembled porous carbon nanocomposite for ammonia sensing: study using an optical fiber Fabry-Perot interferometer. Analyst, The, 2018, 143, 1890-1898.	3.5	21
44	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. Sensors and Actuators B: Chemical, 2020, 312, 127921.	7.8	21
45	Cobalt nanoparticles doped emeraldine salt of polyaniline: A promising room temperature magnetic semiconductor. Journal of Magnetism and Magnetic Materials, 2010, 322, 3926-3931.	2.3	17
46	Intramolecular and intermolecular crosslinked poly(vinyl alcohol)-borate complexes for the sustained release of fertilizers and enzymes. Journal of Applied Polymer Science, 2011, 121, 2450-2457.	2.6	17
47	Enhanced sensitivity of magneto-optical sensor using defect induced perovskite metal oxide nanomaterial. Journal of Alloys and Compounds, 2019, 797, 896-901.	5.5	17
48	Fabrication and evaluation of thin layer PVDF composites using MWCNT reinforcement: Mechanical, electrical and enhanced electromagnetic interference shielding properties. AIP Advances, 2016, 6, 065107.	1.3	16
49	Lightweight, flexible and thin Fe ₃ O ₄ -loaded, functionalized multi walled carbon nanotube buckypapers for enhanced X-band electromagnetic interference shielding. Materials Research Express, 2017, 4, 045012.	1.6	16
50	Synthesis, Characterization and <i>In Vitro</i> Study of Curcumin-Functionalized Citric Acid-Capped Magnetic (CCF) Nanoparticles as Drug Delivery Agents in Cancer. Journal of Bionanoscience, 2011, 5, 59-65.	0.4	16
51	Polymer-embedded stannic oxide nanoparticles as humidity sensors. Materials Science and Engineering C, 2009, 29, 847-850.	7.3	15
52	Controlled release of antimicrobial Cephalexin drug from silica microparticles. Materials Science and Engineering C, 2014, 34, 9-14.	7.3	14
53	Morphology and Curie temperature engineering in crystalline La _{0.7} Sr _{0.3} MnO ₃ films on Si by pulsed laser deposition. Journal of Applied Physics, 2014, 115, .	2.5	14
54	Lithium niobate nanoparticulate clad on the core of single mode optical fiber for temperature and magnetic field sensing. Applied Physics Letters, 2012, 101, 043102.	3.3	13

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55	Degradation of Y1Ba2Cu3O7 δ thin epitaxial films in aqueous medium and control of degradation using polymer overlayers deposited by pulsed excimer laser. <i>Thin Solid Films</i> , 1991, 206, 161-164.	1.8	12
56	Lithium niobate nanoparticle-coated Y-coupler optical fiber for enhanced electro-optic sensitivity. <i>Optics Letters</i> , 2015, 40, 491.	3.3	12
57	Nanostructured glucose-oxidase immobilized SnO ₂ thin films for glucose sensing. <i>Applied Physics Letters</i> , 2011, 98, 073704.	3.3	9
58	Nanomaterials as Enhanced Antimicrobial Agent/Activity-Enhancer for Transdermal Applications: A Review. , 2017, , 279-321.		9
59	Microwave Response of La _{0.7} Sr _{0.3} MnO ₃ Nanoparticles for Heating Applications. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 178-183.	1.1	7
60	Calibration and optimization of a metamaterial sensor for hybrid fuel detection. , 2015, , .		7
61	Fe ₃ O ₄ -mediated dielectric sensor using metamaterial-inspired resonators for the NO ₂ sensing. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	7
62	Electric field controlled near-infrared high-speed electro-optic switching modulator integrated with 2D MgO. <i>Optics Letters</i> , 2020, 45, 4611.	3.3	7
63	Synthesis of Hydrophilic Superparamagnetic Magnetite Nanoparticles via Thermal Decomposition of Fe(acac) ₃ in 80 Vol% TREG + 20 Vol% TREM. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2730-2734.	0.9	6
64	Highly porous graphene coated Fabry-Perot interferometer optical fiber NH ₃ gas sensor. , 2016, , .		6
65	Role of substrate on the electrical properties of SnO ₂ /La _{0.7} Sr _{0.3} MnO ₃ bilayers. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	5
66	Sensitive, Weak Magnetic Field Sensor Based on Cobalt Nanoparticles Deposited in Micro-Tunnels of PM-PCF Optical Fiber. , 2011, , .		5
67	Deposition of polyphenylene sulphide (PPS) polymer by pulsed excimer laser ablation. <i>Materials Letters</i> , 1992, 15, 260-263.	2.6	4
68	Improved crystallinity, spatial arrangement and monodispersity of submicron La _{0.7} Ba _{0.3} MnO ₃ powders: A citrate chelation approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3766-3772.	2.3	4
69	Studies on drug-assisted silver nanoparticles to reduce granulocytopenia and improve drug delivery for cancer therapy. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	4
70	Fabrication of La _{0.7} Sr _{0.3} MnO ₃ /Si Heterojunctions Using a CMOS-Compatible Citric Acid Etch Process. <i>IEEE Electron Device Letters</i> , 2011, 32, 402-404.	3.9	3
71	Citrate milling of oxides: from poly-dispersed micron scale to nearly mono-dispersed nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5091.	2.8	3
72	Observation of magnetism in La _{0.7} Sr _{0.3} MnO ₃ /graphene nanoribbons complex: a probable magnetoelectronic material study. <i>Materials Research Express</i> , 2017, 4, 075050.	1.6	3

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73	Effect of Copper Doping on Physical Properties of Cadmium Oxide Thin Films. Springer Proceedings in Physics, 2017, , 163-167.	0.2	3
74	Giant magnetoimpedance near a metal-insulator transition: Study of Fe in a V2O3 matrix. Applied Physics Letters, 2000, 77, 2725-2727.	3.3	2
75	Thermal hysteresis of microwave loss in $(\text{La}_{1-x}\text{Pr}_x)_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ films. Journal of Applied Physics, 2002, 91, 7736.	2.5	2
76	Anomalous microwave heating effects in Ce-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$: Possible role of grain boundary capacitive effects across cerium solubility limit. Applied Physics Letters, 2008, 92, 012512.	3.3	2
77	Bromothymol blue coated fiber optic Fabry-Perot interferometer for ammonia gas sensor. Proceedings of SPIE, 2017, , .	0.8	2
78	Nanomaterial-Functionalized-Metamaterial-Inspired Resonators for Ultra-Sensitive and Selective H ₂ S Sensing. , 2018, , .		2
79	Engineering Room Temperature SO ₂ Gas Sensing via Laser-Annealed Nanostructured SnO ₂ Thin Films. Science of Advanced Materials, 2012, 4, 475-479.	0.7	2
80	Superior electromagnetic wave absorption performance of Fe ₃ O ₄ modified graphene assembled porous carbon (mGAPC) based hybrid foam. Materials Chemistry and Physics, 2022, 290, 126512.	4.0	2
81	Substrate-induced epitaxial mixing of bulk-immiscible $\text{La}_{0.5}\text{Sr}_{0.3}\text{MnO}_3\text{-LuMnO}_3$ films. Applied Physics Letters, 2005, 86, 112507.	3.3	1
82	Zinc Oxide Nanomaterials as Amylase Inhibitors and for Water Pollution Control. Springer Series in Materials Science, 2014, , 269-287.	0.6	1
83	Grain boundary engineering of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films on silicon substrate: Scanning Tunneling Microscopy-Spectroscopy study. Physica B: Condensed Matter, 2014, 448, 85-89.	2.7	1
84	Deposition of polymer bilayer configuration by pulsed laser ablation and its use for study of polymer-polymer interface. Bulletin of Materials Science, 1993, 16, 341-346.	1.7	0
85	Synthesis of cuprous oxide nanoparticles by electrochemical method and evaluation of the corresponding nanoparticle film for humidity sensing. , 2012, , .		0
86	Contact Resistance Study of Pt, Ni and Au on $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ (LSMO)/Si for Heterojunction Device Applications. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	0
87	Nanometric Fabry-Perot cavity length modulations: Study using Photonic crystal fiber modal interferometer. , 2017, , .		0
88	Tapered-single mode fiber with an PM-PCF amplifier for refractive index sensing: via trapping and amplifying evanescent waves. , 2017, , .		0
89	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2019, , 1-31.		0
90	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2020, , 1-31.		0

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91	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2020, , 3-34.		0