

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	Superior electromagnetic wave absorption performance of Fe ₃ O ₄ modified graphene assembled porous carbon (mGAPC) based hybrid foam. <i>Materials Chemistry and Physics</i> , 2022, 290, 126512.	4.0	2
2	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
3	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
4	Comparative evaluation of MAX, MXene, NanoMAX, and NanoMAX-derived-MXene for microwave absorption and Li ion battery anode applications. <i>Nanoscale</i> , 2020, 12, 8466-8476.	5.6	86
5	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127921.	7.8	21
6	Ampicillin-mediated functionalized gold nanoparticles against ampicillin-resistant bacteria: strategy, preparation and interaction studies. <i>Nanotechnology</i> , 2020, 31, 215604.	2.6	28
7	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
8	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2020, , 1-31.		0
9	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2020, , 3-34.		0
10	Enhanced sensitivity of magneto-optical sensor using defect induced perovskite metal oxide nanomaterial. <i>Journal of Alloys and Compounds</i> , 2019, 797, 896-901.	5.5	17
11	A review on nanomaterial-modified optical fiber sensors for gases, vapors and ions. <i>Mikrochimica Acta</i> , 2019, 186, 253.	5.0	60
12	Microneedles of chitosanâ€porous carbon nanocomposites: Stimuli (pH and electric field)â€initiated drug delivery and toxicological studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1582-1596.	4.0	22
13	Silica-chitosan nanocomposite mediated pH-sensitive drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 49, 345-351.	3.0	31
14	Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. , 2019, , 1-31.		0
15	Fe ₃ O ₄ -decorated graphene assembled porous carbon nanocomposite for ammonia sensing: study using an optical fiber Fabryâ€Perot interferometer. <i>Analyst, The</i> , 2018, 143, 1890-1898.	3.5	21
16	Systematic magnetic fluid hyperthermia studies of carboxyl functionalized hydrophilic superparamagnetic iron oxide nanoparticles based ferrofluids. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 534-543.	9.4	49
17	Nanomaterial-Functionalized-Metamaterial-Inspired Resonators for Ultra-Sensitive and Selective H<inf>2</inf>S Sensing. , 2018, , .		2
18	Lightweight, flexible and thin Fe ₃ O ₄ -loaded, functionalized multi walled carbon nanotube buckypapers for enhanced X-band electromagnetic interference shielding. <i>Materials Research Express</i> , 2017, 4, 045012.	1.6	16

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19	Bromothymol blue coated fiber optic Fabry-Perot interferometer for ammonia gas sensor. Proceedings of SPIE, 2017, , .	0.8	2
20	Cross-linked chitosan-dextran sulphate vehicle system for controlled release of ciprofloxacin drug: An ophthalmic application. OpenNano, 2017, 2, 28-36.	4.8	41
21	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
22	Nanomaterials as Enhanced Antimicrobial Agent/Activity-Enhancer for Transdermal Applications: A Review. , 2017, , 279-321.		9
23	Observation of magnetism in La _{0.7} Sr _{0.3} MnO ₃ "graphene nanoribbons complex: a probable magnetoelectronic material study. Materials Research Express, 2017, 4, 075050.	1.6	3
24	Effect of Copper Doping on Physical Properties of Cadmium Oxide Thin Films. Springer Proceedings in Physics, 2017, , 163-167.	0.2	3
25	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
26	Nanometric Fabry-Perot cavity length modulations: Study using Photonic crystal fiber modal interferometer. , 2017, , .		0
27	Tapered-single mode fiber with an PM-PCF amplifier for refractive index sensing: via trapping and amplifying evanescent waves. , 2017, , .		0
28	Recent advances in metamaterial split-ring-resonator circuits as biosensors and therapeutic agents. Biosensors and Bioelectronics, 2016, 86, 595-608.	10.1	98
29	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
30	Mach-Zehnder interferometric photonic crystal fiber for low acoustic frequency detections. Applied Physics Letters, 2016, 108, .	3.3	65
31	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
32	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
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	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
35	Au sensitized ZnO nanorods for enhanced liquefied petroleum gas sensing properties. Applied Surface Science, 2016, 371, 224-230.	6.1	75
36	Highly porous graphene coated Fabry-Perot interferometer optical fiber NH ₃ gas sensor. , 2016, , .		6

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37	Novel platinum–palladium bimetallic nanoparticles synthesized by Dioscorea bulbifera: anticancer and antioxidant activities. International Journal of Nanomedicine, 2015, 10, 7477.	6.7	75
38	<i>Dioscorea bulbifera</i> Mediated Synthesis of Novel Au_{core}Ag_{shell} Nanoparticles with Potent Antibiofilm and Antileishmanial Activity. Journal of Nanomaterials, 2015, 2015, 1-12.	2.7	62
39	<l>Curcumin</l>-Loaded, Self-Assembled <l>Aloevera</l> Template for Superior Antioxidant Activity and Trans-Membrane Drug Release. Journal of Nanoscience and Nanotechnology, 2015, 15, 4039-4045.	0.9	29
40	Diosgenin Functionalized Iron Oxide Nanoparticles as Novel Nanomaterial Against Breast Cancer. Journal of Nanoscience and Nanotechnology, 2015, 15, 9464-9472.	0.9	78
41	Calibration and optimization of a metamaterial sensor for hybrid fuel detection. , 2015, , .		7
42	Single-layer graphene-assembled 3D porous carbon composites with PVA and Fe₃O₄ nano-fillers: an interface-mediated superior dielectric and EMI shielding performance. Physical Chemistry Chemical Physics, 2015, 17, 18353-18363.	2.8	82
43	ZnO Nanoparticles-Red Sandalwood Conjugate: A Promising Anti-Diabetic Agent. Journal of Nanoscience and Nanotechnology, 2015, 15, 4046-4051.	0.9	70
44	Lithium niobate nanoparticle-coated Y-coupler optical fiber for enhanced electro-optic sensitivity. Optics Letters, 2015, 40, 491.	3.3	12
45	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
46	Zinc Oxide Nanomaterials as Amylase Inhibitors and for Water Pollution Control. Springer Series in Materials Science, 2014, , 269-287.	0.6	1
47	Controlled release of antimicrobial Cephalexin drug from silica microparticles. Materials Science and Engineering C, 2014, 34, 9-14.	7.3	14
48	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
49	Grain boundary engineering of La _{0.7} Sr _{0.3} MnO ₃ films on silicon substrate: Scanning Tunneling Microscopy-Spectroscopy study. Physica B: Condensed Matter, 2014, 448, 85-89.	2.7	1
50	Citrate milling of oxides: from poly-dispersed micron scale to nearly mono-dispersed nanoscale. Physical Chemistry Chemical Physics, 2013, 15, 5091.	2.8	3
51	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
52	Contact Resistance Study of Pt, Ni and Au on La _{0.7} Sr _{0.3} MnO ₃ (LSMO)/Si for Heterojunction Device Applications. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	0
53	<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
54	Synthesis of cuprous oxide nanoparticles by electrochemical method and evaluation of the corresponding nanoparticle film for humidity sensing. , 2012, , .		0

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55	Gnidia glauca flower extract mediated synthesis of gold nanoparticles and evaluation of its chemocatalytic potential. Journal of Nanobiotechnology, 2012, 10, 17.	9.1	174
56	Improved crystallinity, spatial arrangement and monodispersity of submicron La _{0.7} Ba _{0.3} MnO ₃ powders: A citrate chelation approach. Journal of Magnetism and Magnetic Materials, 2012, 324, 3766-3772.	2.3	4
57	Conjugation of curcumin with PVP capped gold nanoparticles for improving bioavailability. Materials Science and Engineering C, 2012, 32, 2659-2663.	7.3	122
58	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
59	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
60	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
61	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
62	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
63	Fabrication of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{Si}$ Heterojunctions Using a CMOS-Compatible Citric Acid Etch Process. IEEE Electron Device Letters, 2011, 32, 402-404.	3.9	3
64	Nanostructured glucose-oxidase immobilized SnO ₂ thin films for glucose sensing. Applied Physics Letters, 2011, 98, 073704.	3.3	9
65	Photonic crystal fiber injected with Fe ₃ O ₄ nanofluid for magnetic field detection. Applied Physics Letters, 2011, 99, .	3.3	167
66	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
67	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
68	Synthesis of Hydrophilic Superparamagnetic Magnetite Nanoparticles via Thermal Decomposition of Fe(acac) ₃ in 80 Vol% TREG + 20 Vol% TREM. Journal of Nanoscience and Nanotechnology, 2011, 11, 2730-2734.	0.9	6
69	Synthesis of Gold Nanoanisotropes Using <i>Dioscorea bulbifera</i> Tuber Extract. Journal of Nanomaterials, 2011, 2011, 1-8.	2.7	66
70	Sensitive, Weak Magnetic Field Sensor Based on Cobalt Nanoparticles Deposited in Micro-Tunnels of PM-PCF Optical Fiber. , 2011, , .		5
71	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
72	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

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73	Polymer-embedded stannic oxide nanoparticles as humidity sensors. <i>Materials Science and Engineering C</i> , 2009, 29, 847-850.	7.3	15
74	Encapsulation of cobalt nanoparticles in cross-linked-polymer cages. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2135-2138.	2.3	24
75	Studies of magnetite nanoparticles synthesized by thermal decomposition of iron (III) acetylacetonate in tri(ethylene glycol). <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3093-3098.	2.3	147
76	Zinc oxide nanoparticles as novel alpha-amylase inhibitors. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	60
77	Role of substrate on the electrical properties of $\text{SnO}_2/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ bilayers. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	5
78	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. <i>Applied Physics Letters</i> , 2008, 92, 012512.	3.3	2
79	Microwave Response of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Nanoparticles for Heating Applications. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 178-183.	1.1	7
80	Protein and polymer immobilized $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanoparticles for possible biomedical applications. <i>Nanotechnology</i> , 2007, 18, 345101.	2.6	51
81	$\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanoparticles coated with fatty amine. <i>Applied Physics Letters</i> , 2006, 89, 023107.	3.3	35
82	Cerium doping and stoichiometry control for biomedical use of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanoparticles: microwave absorption and cytotoxicity study. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006, 2, 217-221.	3.3	35
83	Substrate-induced epitaxial mixing of bulk-immiscible $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3/\text{LuMnO}_3$ films. <i>Applied Physics Letters</i> , 2005, 86, 112507.	3.3	1
84	Magnetism in cobalt-doped Cu_2O thin films without and with Al, V, or Zn codopants. <i>Applied Physics Letters</i> , 2003, 82, 2100-2102.	3.3	98
85	High Temperature Ferromagnetism with a Giant Magnetic Moment in Transparent Co-doped SnO_2 . <i>Physical Review Letters</i> , 2003, 91, 077205.	7.8	816
86	Thermal hysteresis of microwave loss in $(\text{La}_{1-x}\text{Pr}_x)_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ films. <i>Journal of Applied Physics</i> , 2002, 91, 7736.	2.5	2
87	Film thickness and temperature dependence of the magnetic properties of pulsed-laser-deposited Fe_3O_4 films on different substrates. <i>Physical Review B</i> , 2001, 64, .	3.2	106
88	Giant magnetoimpedance near a metal-insulator transition: Study of Fe in a V_2O_3 matrix. <i>Applied Physics Letters</i> , 2000, 77, 2725-2727.	3.3	2
89	Deposition of polymer bilayer configuration by pulsed laser ablation and its use for study of polymer-polymer interface. <i>Bulletin of Materials Science</i> , 1993, 16, 341-346.	1.7	0
90	Deposition of polyphenylene sulphide (PPS) polymer by pulsed excimer laser ablation. <i>Materials Letters</i> , 1992, 15, 260-263.	2.6	4

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91	Degradation of $Y_{1-x}Ba_xCu_3O_{7-x}$ thin epitaxial films in aqueous medium and control of degradation using polymer overlayers deposited by pulsed excimer laser. Thin Solid Films, 1991, 206, 161-164.	1.8	12