

Prashant K Sharma

List of Publications by Year in descending order

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99
papers

3,901
citations

87888

38
h-index

149698

56
g-index

125
all docs

125
docs citations

125
times ranked

5865
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological approach of zinc oxide nanoparticles formation and its characterization. <i>Advanced Materials Letters</i> , 2011, 2, 313-317.	0.6	201
2	Dual-Responsive Polymer Coated Superparamagnetic Nanoparticle for Targeted Drug Delivery and Hyperthermia Treatment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9235-9246.	8.0	144
3	Doping dependent room-temperature ferromagnetism and structural properties of dilute magnetic semiconductor ZnO:Cu ²⁺ nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 4001-4005.	2.3	118
4	Effect of iron doping concentration on magnetic properties of ZnO nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2587-2591.	2.3	111
5	Bismuth oxide decorated graphene oxide nanocomposites synthesized via sonochemical assisted hydrothermal method for adsorption of cationic organic dyes. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 82-93.	9.4	99
6	Synthesis of CdS nanoparticles with enhanced optical properties. <i>Materials Characterization</i> , 2011, 62, 43-52.	4.4	97
7	Synthesis and characterization of single-crystalline $\text{Li}^{\pm}\text{-MoO}_3$ nanofibers for enhanced Li-ion intercalation applications. <i>CrystEngComm</i> , 2011, 13, 927-933.	2.6	91
8	Influence of Co-doping on the thermal, structural, and optical properties of sol-gel derived ZnO nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 120, 393-398.	4.0	89
9	Influence of pH on structural morphology and magnetic properties of ordered phase cobalt doped lithium ferrites nanoparticles synthesized by sol-gel method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 175, 14-21.	3.5	80
10	Consequence of doping mediated strain and the activation energy on the structural and optical properties of ZnO:Cr nanoparticles. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1400-1408.	2.9	79
11	Effect of nickel doping concentration on structural and magnetic properties of ultrafine diluted magnetic semiconductor ZnO nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3457-3461.	2.3	78
12	Differential Susceptibility of Escherichia coli Cells toward Transition Metal-Doped and Matrix-Embedded ZnO Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5594-5599.	2.6	75
13	Zinc Oxide (1% Cu) Nanoparticle in Nematic Liquid Crystal: Dielectric and Electro-Optical Study. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 101501.	1.5	72
14	Alteration of magnetic and optical properties of ultrafine dilute magnetic semiconductor ZnO:Co ²⁺ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 149-153.	9.4	67
15	Synthesis and characterization of self-assembled nanofiber-bundles of V ₂ O ₅ : their electrochemical and field emission properties. <i>Nanoscale</i> , 2012, 4, 645-651.	5.6	61
16	Fast and Selective Preconcentration of Europium from Wastewater and Coal Soil by Graphene Oxide/Silane@Fe ₃ O ₄ Dendritic Nanostructure. <i>Environmental Science & Technology</i> , 2015, 49, 6117-6126.	10.0	53
17	Nano-iniferter based imprinted sensor for ultra trace level detection of prostate-specific antigen in both men and women. <i>Biosensors and Bioelectronics</i> , 2015, 66, 1-10.	10.1	53
18	Agar based bimetallic nanoparticles as high-performance renewable adsorbent for removal and degradation of cationic organic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 226-238.	5.8	53

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19	A single solution for arsenite and arsenate removal from drinking water using cysteine@ZnS:TiO ₂ nanoparticle modified molecularly imprinted biofouling-resistant filtration membrane. <i>Chemical Engineering Journal</i> , 2016, 304, 259-270.	12.7	51
20	Tunable Visible Emission of Ag-Doped CdZnS Alloy Quantum Dots. <i>Nanoscale Research Letters</i> , 2010, 5, 96-102.	5.7	50
21	Heteroatom-doped graphene N^{D} : A green and foody approach towards development of metal free bifunctional catalyst for rechargeable zinc-air battery. <i>Nano Energy</i> , 2016, 30, 118-129.	16.0	50
22	Introduction of selectivity and specificity to graphene using an inimitable combination of molecular imprinting and nanotechnology. <i>Biosensors and Bioelectronics</i> , 2017, 89, 234-248.	10.1	48
23	Relationship between oxygen defects and the photoluminescence property of ZnO nanoparticles: A spectroscopic view. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	47
24	Investigation on magnetic properties of Fe_3O_4 nanoparticles synthesized under surfactant-free condition by hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2010, 500, 206-210.	5.5	46
25	Stimuli-responsive poly(N -isopropyl acrylamide)-co-tyrosine@gadolinium: Iron oxide nanoparticle-based nanotheranostic for cancer diagnosis and treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 248-258.	5.0	44
26	Marigold shaped N-rGO-MoS ₂ -Ni(OH) ₂ nanocomposite as a bifunctional electrocatalyst for the promotion of overall water splitting in alkaline medium. <i>Electrochimica Acta</i> , 2019, 303, 257-267.	5.2	44
27	Surfactant mediated phase transformation of CdS nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 121, 202-207.	4.0	43
28	Influence of calcinations temperature on physical properties of the nanocomposites containing spinel and CuO phases. <i>Journal of Alloys and Compounds</i> , 2010, 494, 275-284.	5.5	43
29	Europium doped magnetic graphene oxide-MWCNT nanohybrid for estimation and removal of arsenate and arsenite from real water samples. <i>Chemical Engineering Journal</i> , 2016, 299, 244-254.	12.7	43
30	Sensitive and selective electrochemical detection of Cd ²⁺ by using bimetal oxide decorated Graphene oxide (Bi ₂ O ₃ /Fe ₂ O ₃ @GO) electrode. <i>Microchemical Journal</i> , 2019, 147, 1203-1214.	4.5	43
31	Luminescence studies and formation mechanism of symmetrically dispersed ZnO quantum dots embedded in SiO ₂ matrix. <i>Journal of Luminescence</i> , 2009, 129, 605-610.	3.1	41
32	Probing the shape-specific electrochemical properties of cobalt oxide nanostructures for their application as selective and sensitive non-enzymatic glucose sensors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6497-6505.	5.5	40
33	Developing electrochemical sensor for point-of-care diagnostics of oxidative stress marker using imprinted bimetallic Fe/Pd nanoparticle. <i>Talanta</i> , 2015, 132, 406-415.	5.5	39
34	Nanocomposite of bimetallic nanodendrite and reduced graphene oxide as a novel platform for molecular imprinting technology. <i>Analytica Chimica Acta</i> , 2016, 918, 77-88.	5.4	39
35	Equipment-Free, Single-Step, Rapid, In-Situ Kit for Visual Detection of Lead Ions in Soil, Water, Bacteria, Live Cells, and Solid Fruits Using Fluorescent Cube-Shaped Nitrogen-Doped Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5606-5617.	6.7	38
36	Controlled hydrothermal synthesis of graphene supported NiCo ₂ O ₄ coral-like nanostructures: An efficient electrocatalyst for overall water splitting. <i>Applied Surface Science</i> , 2018, 449, 203-212.	6.1	37

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37	Electrocatalytic behavior of transition metal (Ni, Fe, Cr) doped metal oxide nanocomposites for oxygen evolution reaction. Applied Surface Science, 2018, 449, 660-668.	6.1	37
38	Gold nanoparticle mediated designing of non-hydrolytic sol-gel cross-linked metformin imprinted polymer network: A theoretical and experimental study. Talanta, 2014, 120, 198-207.	5.5	36
39	Variation in structural, optical and magnetic properties of Zn _{1-x} Cr _x O (x=0.0, 0.10, 0.15, and 0.20) nanoparticles: Role of dopant concentration on non-saturation of magnetization. Materials Chemistry and Physics, 2011, 125, 664-671.	4.0	35
40	A metronidazole-probe sensor based on imprinted biocompatible nanofilm for rapid and sensitive detection of anaerobic protozoan. RSC Advances, 2014, 4, 32881.	3.6	34
41	2-Dimensional graphene as a route for emergence of additional dimension nanomaterials. Biosensors and Bioelectronics, 2017, 89, 8-27.	10.1	31
42	Performance of YAG:Eu ³⁺ , YAG:Tb ³⁺ and BAM:Eu ²⁺ plasma display nanophosphors. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	30
43	Hydrothermal-assisted green synthesis of Ni/Ag@rGO nanocomposite using Punica granatum juice and electrochemical detection of ascorbic acid. Microchemical Journal, 2020, 156, 104850.	4.5	30
44	Molecularly imprinted star polymer-modified superparamagnetic iron oxide nanoparticle for trace level sensing and separation of mancozeb. RSC Advances, 2016, 6, 36751-36760.	3.6	26
45	Designing of fluorescent and magnetic imprinted polymer for rapid, selective and sensitive detection of imidacloprid via activators regenerated by the electron transfer-atom transfer radical polymerization (ARGET-ATRP) technique. Journal of Physics and Chemistry of Solids, 2018, 116, 222-233.	4.0	26
46	Bimetal oxide decorated graphene oxide (Gd ₂ O ₃ /Bi ₂ O ₃ @GO) nanocomposite as an excellent adsorbent in the removal of methyl orange dye. Materials Science in Semiconductor Processing, 2020, 105, 104721.	4.0	26
47	Shape effect on the fabrication of imprinted nanoparticles: Comparison between spherical-, rod-, hexagonal-, and flower-shaped nanoparticles. Chemical Engineering Journal, 2017, 321, 195-206.	12.7	25
48	Simultaneous determination of heavy metals in biological samples by a multiple-template imprinting technique: an electrochemical study. RSC Advances, 2014, 4, 56690-56700.	3.6	24
49	Cow Dung Derived PdNPs@WO ₃ Porous Carbon Nanodiscs as Trifunctional Catalysts for Design of Zinc-Air Batteries and Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 9735-9748.	6.7	24
50	An ultra sensitive saccharides detection assay using carboxyl functionalized chitosan containing Gd ₂ O ₃ -Eu ³⁺ nanoparticles probe. Analytical Methods, 2011, 3, 217-226.	2.7	23
51	Size dependence of Eu ³⁺ charge transfer process on luminescence characteristics of YBO ₃ :Eu ³⁺ nanocrystals. Optics Letters, 2010, 35, 2331.	3.3	21
52	Highly Stabilized Monodispersed Citric Acid Capped ZnO:Cu ²⁺ Nanoparticles: Synthesis and Characterization for Their Applications in White Light Generation From UV LEDs. IEEE Nanotechnology Magazine, 2011, 10, 163-169.	2.0	21
53	Development of an imprinted polymeric sensor with dual sensing property for trace level estimation of zinc and arginine. Materials Science and Engineering C, 2015, 49, 25-33.	7.3	21
54	Advances in multifunctional magnetic nanoparticles. Advanced Materials Letters, 2011, 2, 246-263.	0.6	20

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55	Surface Characterization and Mechanical Properties™ Evaluation of Boride-Dispersed Nickel-Based Coatings Deposited on Copper Through Thermal Spray Routes. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 800-809.	3.1	19
56	Microstructure and Phase Composition of Composite Coatings Formed by Plasma Spraying of ZrO ₂ and B ₄ C Powders. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 816-823.	3.1	18
57	Concentration Dependent Physical Parameters of Ferroelectric Liquid Crystal and ZnOS Nano Material Composite System. <i>Soft Materials</i> , 2013, 11, 305-314.	1.7	18
58	Economic and Ecofriendly Synthesis of Biocompatible Heteroatom Doped Carbon Nanodots for Graphene Oxide Assay and Live Cell Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1463-1473.	6.7	18
59	Raman studies on Ag-ion doped CdZnS luminescent alloy quantum dots. <i>Chemical Physics Letters</i> , 2010, 495, 63-68.	2.6	17
60	Polymeric iron oxide-graphene nanocomposite as a trace level sensor of vitamin C. <i>Applied Surface Science</i> , 2018, 449, 304-313.	6.1	17
61	Surfactant mediated optical properties of cytosine capped CdSe quantum dots. <i>Materials Letters</i> , 2010, 64, 1183-1186.	2.6	15
62	PVA assisted low temperature anatase to rutile phase transformation (ART) and properties of titania nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 646, 565-572.	5.5	15
63	Electrochemical sensing of cyanometallic compound using TiO ₂ /PVA nanocomposite-modified electrode. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 75-83.	2.9	15
64	Raman investigations of Zn _{1-x} Co _x O nanocrystals: role of starting precursors on vibrational properties. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1802-1807.	2.5	14
65	Microstructural Characterization and Properties Evaluation of Ni-Based Hardfaced Coating on AISI 304 Stainless Steel by High Velocity Oxyfuel Coating Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 372-380.	2.2	14
66	Synthesis, characterization and electrochemical monitoring of drug release properties of dual stimuli responsive mesoporous GdPO ₄ :Eu ³⁺ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 776, 654-665.	5.5	14
67	Glycolic acid assisted one-step synthesis of Cu-Ni-Fe metal oxide nanocomposites by sol-gel-combustion method: Structural, spectroscopic and magnetic studies. <i>Materials Chemistry and Physics</i> , 2010, 120, 493-500.	4.0	12
68	Size-dependent emission efficiency and luminescence characteristics of YBO ₃ :Tb ³⁺ nanocrystals under vacuum ultraviolet excitations. <i>Journal of Applied Physics</i> , 2012, 112, 054321.	2.5	12
69	Removal and Recycling of Precious Rare Earth Element from Wastewater Samples Using Imprinted Magnetic Ordered Mesoporous Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6910-6923.	6.7	12
70	DNA base (cytosine) modified/capped ultrasml Gd ₂ S ₃ :Eu ³⁺ gadofluoroprobes for platelet isolation. <i>Applied Physics Letters</i> , 2010, 97, 253702.	3.3	11
71	Assessing the conformational and cellular changes of ZnO nanoparticles impregnated Escherichia coli cells through molecular fingerprinting. <i>Advanced Materials Letters</i> , 2011, 2, 268-275.	0.6	11
72	Switching in structural, optical, and magnetic properties of self-assembled Co-doped ZnO: effect of Co-concentration. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 552-559.	2.2	10

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73	Properties of sol-gel derived YAG:Eu ³⁺ hierarchical nanostructures with their time evolution studies. Journal of Applied Physics, 2009, 105, 034309.	2.5	9
74	Anisotropic Gold Nanoparticle Decorated Magnetopolymersome: An Advanced Nanocarrier for Targeted Photothermal Therapy and Dual-Mode Responsive T1 MRI Imaging. ACS Biomaterials Science and Engineering, 2017, 3, 2120-2135.	5.2	8
75	Synthesis of single phase Fe _x Sn _{1-x} O ₂ nanoparticles with enhanced structural, optical and magnetic properties. Journal of Alloys and Compounds, 2017, 717, 260-270.	5.5	7
76	Acetaminophen and acetone sensing capabilities of nickel ferrite nanostructures. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	7
77	Functionalized Biocompatible Nanoparticles for Site-Specific Imaging and Therapeutics. Advances in Polymer Science, 2011, , 233-275.	0.8	6
78	Studies on nano-crystalline CoNiCrAlY consolidated by conventional and microwave sintering. Advanced Powder Technology, 2016, 27, 72-84.	4.1	6
79	Template assisted hydrothermal synthesis of CoSnO ₃ hollow microspheres for electrocatalytic oxygen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 21623-21636.	7.1	6
80	Nano-Borides and Silicide Dispersed Composite Coating on AISI 304 Stainless Steel by Laser-Assisted HVOF Spray Deposition. Journal of Thermal Spray Technology, 2014, 23, 1105-1115.	3.1	4
81	Detection of Hg ²⁺ ion using fluorescent carbon dots derived from elephant foot yam via green-chemistry. AIP Conference Proceedings, 2017, , .	0.4	4
82	Electrochemical performance of Ag nanoparticle decorated reduced graphene oxide in determination of anticancer drug flutamide. AIP Conference Proceedings, 2017, , .	0.4	4
83	Engineering of gadofluoroprobes: Broad-spectrum applications from cancer diagnosis to therapy. Applied Physics Letters, 2014, 104, 023703.	3.3	3
84	Quality Control of Beverages for Health Safety: Starting from Laboratory to the Point-of-Care Detection Techniques. , 2019, , 39-83.		3
85	Synthesis and characterization of Cd _{1-x} Zn _x S ternary nanocrystals. , 2007, , .		2
86	Development of carbon dots modified fluorescent molecular imprinted Polymer@Ag/AgCl nanoparticle for hepatocellular carcinoma marker. AIP Conference Proceedings, 2017, , .	0.4	2
87	Electrocatalytic activity of silver nanoparticles decorated reduced graphene oxide (AgNP@rGO) nanocomposites. AIP Conference Proceedings, 2017, , .	0.4	2
88	Dual doped graphene oxide for electrochemical sensing of europium ion. AIP Conference Proceedings, 2017, , .	0.4	2
89	Design of CdV ₂ O ₄ -V ₆ O ₁₃ micro flowers for non-enzymatic electrochemical detection of urea. AIP Conference Proceedings, 2019, , .	0.4	2
90	Hydrothermally synthesized reduced graphene oxide/nickel hydroxide (rGO/Ni(OH) ₂) nanocomposite: A promising material in dye removal. AIP Conference Proceedings, 2017, , .	0.4	2

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91	Synthesis and characterization of Eu ³⁺ :Gd ₂ O ₃ hollow spheres for biomedical applications. AIP Conference Proceedings, 2016, , .	0.4	1
92	CuO nanostructure modified pencil graphite electrode for non-enzymatic detection of glucose. AIP Conference Proceedings, 2017, , .	0.4	1
93	Study of structural, optical and electrical properties of hydrothermally synthesised Cu-doped ZnO nanorods. AIP Conference Proceedings, 2017, , .	0.4	1
94	Stimuli-responsive polymers for treatment of diabetes mellitus. , 2019, , 491-524.		1
95	Fine Encapsulated ZnO Nanophosphors And Their Potential Antibacterial Evaluation On The Gram Negative Bacillus Escherichia coli. , 2009, , .		0
96	Super paramagnetic iron oxide nanoparticle modified mancozeb imprinted polymer. AIP Conference Proceedings, 2017, , .	0.4	0
97	Imprinted magnetic graphene oxide for the mini-solid phase extraction of Eu (III) from coal mine area. AIP Conference Proceedings, 2017, , .	0.4	0
98	Expression of Concern for "Rare Earth- and Iridium-Decorated Silica Nanoparticle as a Single Catalyst for Carbon Dioxide Reduction and Water Oxidation: Buy One Get One Strategy" ACS Sustainable Chemistry and Engineering, 2018, 6, 17436-17436.	6.7	0
99	Editorial Of INDIAS 2010, India Special Issue. Advanced Materials Letters, 2011, 2, 245-245.	0.6	0