

# 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	Bimetal oxide decorated graphene oxide (Gd <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> @GO) nanocomposite as an excellent adsorbent in the removal of methyl orange dye. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104721.	4.0	26
2	Hydrothermal-assisted green synthesis of Ni/Ag@rGO nanocomposite using Punica granatum juice and electrochemical detection of ascorbic acid. <i>Microchemical Journal</i> , 2020, 156, 104850.	4.5	30
3	Template assisted hydrothermal synthesis of CoSnO <sub>3</sub> hollow microspheres for electrocatalytic oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21623-21636.	7.1	6
4	Design of CdV <sub>2</sub> O <sub>4</sub> -V <sub>6</sub> O <sub>13</sub> micro flowers for non-enzymatic electrochemical detection of urea. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
5	Quality Control of Beverages for Health Safety: Starting from Laboratory to the Point-of-Care Detection Techniques. , 2019, , 39-83.		3
6	Sensitive and selective electrochemical detection of Cd <sup>2+</sup> by using bimetal oxide decorated Graphene oxide (Bi <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> @GO) electrode. <i>Microchemical Journal</i> , 2019, 147, 1203-1214.	4.5	43
7	Marigold shaped N-rGO-MoS <sub>2</sub> -Ni(OH) <sub>2</sub> 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
8	Stimuli-responsive polymers for treatment of diabetes mellitus. , 2019, , 491-524.		1
9	Synthesis, characterization and electrochemical monitoring of drug release properties of dual stimuli responsive mesoporous GdPO <sub>4</sub> :Eu <sup>3+</sup> nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 776, 654-665.	5.5	14
10	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. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 116, 222-233.	4.0	26
11	Controlled hydrothermal synthesis of graphene supported NiCo <sub>2</sub> O <sub>4</sub> coral-like nanostructures: An efficient electrocatalyst for overall water splitting. <i>Applied Surface Science</i> , 2018, 449, 203-212.	6.1	37
12	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
13	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
14	Electrocatalytic behavior of transition metal (Ni, Fe, Cr) doped metal oxide nanocomposites for oxygen evolution reaction. <i>Applied Surface Science</i> , 2018, 449, 660-668.	6.1	37
15	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17436-17436.	6.7	0
16	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
17	2-Dimensional graphene as a route for emergence of additional dimension nanomaterials. <i>Biosensors and Bioelectronics</i> , 2017, 89, 8-27.	10.1	31
18	Synthesis of single phase Fe <sub>x</sub> Sn <sub>1-x</sub> O <sub>2</sub> nanoparticles with enhanced structural, optical and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2017, 717, 260-270.	5.5	7

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19	Detection of Hg <sup>2+</sup> ion using fluorescent carbon dots derived from elephant foot yam via green-chemistry. AIP Conference Proceedings, 2017, , .	0.4	4
20	Super paramagnetic iron oxide nanoparticle modified mancozeb imprinted polymer. AIP Conference Proceedings, 2017, , .	0.4	0
21	CuO nanostructure modified pencil graphite electrode for non-enzymatic detection of glucose. AIP Conference Proceedings, 2017, , .	0.4	1
22	Probing the shape-specific electrochemical properties of cobalt oxide nanostructures for their application as selective and sensitive non-enzymatic glucose sensors. Journal of Materials Chemistry C, 2017, 5, 6497-6505.	5.5	40
23	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
24	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
25	Cow Dung Derived PdNPs@WO <sub>3</sub> 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
26	Development of carbon dots modified fluorescent molecular imprinted Polymer@Ag/AgCl nanoparticle for hepatocellular carcinoma marker. AIP Conference Proceedings, 2017, , .	0.4	2
27	Electrocatalytic activity of silver nanoparticles decorated reduced graphene oxide (AgNP@rGO) nanocomposites. AIP Conference Proceedings, 2017, , .	0.4	2
28	Electrochemical performance of Ag nanoparticle decorated reduced graphene oxide in determination of anticancer drug flutamide. AIP Conference Proceedings, 2017, , .	0.4	4
29	Removal and Recycling of Precious Rare Earth Element from Wastewater Samples Using Imprinted Magnetic Ordered Mesoporous Carbon. ACS Sustainable Chemistry and Engineering, 2017, 5, 6910-6923.	6.7	12
30	Imprinted magnetic graphene oxide for the mini-solid phase extraction of Eu (III) from coal mine area. AIP Conference Proceedings, 2017, , .	0.4	0
31	Dual doped graphene oxide for electrochemical sensing of europium ion. AIP Conference Proceedings, 2017, , .	0.4	2
32	Acetaminophen and acetone sensing capabilities of nickel ferrite nanostructures. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	7
33	Study of structural, optical and electrical properties of hydrothermally synthesised Cu-doped ZnO nanorods. AIP Conference Proceedings, 2017, , .	0.4	1
34	Electrochemical sensing of cyanometallic compound using TiO <sub>2</sub> /PVA nanocomposite-modified electrode. Journal of Applied Electrochemistry, 2017, 47, 75-83.	2.9	15
35	Hydrothermally synthesized reduced graphene oxide/nickel hydroxide (rGO/Ni(OH) <sub>2</sub> ) nanocomposite: A promising material in dye removal. AIP Conference Proceedings, 2017, , .	0.4	2
36	Synthesis and characterization of Eu <sup>3+</sup> :Gd <sub>2</sub> O <sub>3</sub> hollow spheres for biomedical applications. AIP Conference Proceedings, 2016, , .	0.4	1

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37	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
38	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
39	Molecularly imprinted star polymer-modified superparamagnetic iron oxide nanoparticle for trace level sensing and separation of mancozeb. <i>RSC Advances</i> , 2016, 6, 36751-36760.	3.6	26
40	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
41	Equipment-Free, Single-Step, Rapid, "On-Site" 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
42	Heteroatom-doped graphene "Idli": 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
43	A single solution for arsenite and arsenate removal from drinking water using cysteine@ZnS:TiO <sub>2</sub> nanoparticle modified molecularly imprinted biofouling-resistant filtration membrane. <i>Chemical Engineering Journal</i> , 2016, 304, 259-270.	12.7	51
44	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
45	Studies on nano-crystalline CoNiCrAlY consolidated by conventional and microwave sintering. <i>Advanced Powder Technology</i> , 2016, 27, 72-84.	4.1	6
46	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
47	Development of an imprinted polymeric sensor with dual sensing property for trace level estimation of zinc and arginine. <i>Materials Science and Engineering C</i> , 2015, 49, 25-33.	7.3	21
48	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
49	Fast and Selective Preconcentration of Europium from Wastewater and Coal Soil by Graphene Oxide/Silane@Fe <sub>3</sub> O <sub>4</sub> Dendritic Nanostructure. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6117-6126.	10.0	53
50	Dual-Responsive Polymer Coated Superparamagnetic Nanoparticle for Targeted Drug Delivery and Hyperthermia Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9235-9246.	8.0	144
51	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
52	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
53	Engineering of gadofluoroprobes: Broad-spectrum applications from cancer diagnosis to therapy. <i>Applied Physics Letters</i> , 2014, 104, 023703.	3.3	3
54	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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55	Gold nanoparticle mediated designing of non-hydrolytic sol-gel cross-linked metformin imprinted polymer network: A theoretical and experimental study. <i>Talanta</i> , 2014, 120, 198-207.	5.5	36
56	Simultaneous determination of heavy metals in biological samples by a multiple-template imprinting technique: an electrochemical study. <i>RSC Advances</i> , 2014, 4, 56690-56700.	3.6	24
57	A metronidazole-probe sensor based on imprinted biocompatible nanofilm for rapid and sensitive detection of anaerobic protozoan. <i>RSC Advances</i> , 2014, 4, 32881.	3.6	34
58	Nano-Borides and Silicide Dispersed Composite Coating on AISI 304 Stainless Steel by Laser-Assisted HVOF Spray Deposition. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 1105-1115.	3.1	4
59	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
60	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
61	Synthesis and characterization of self-assembled nanofiber-bundles of V <sub>2</sub> O <sub>5</sub> : their electrochemical and field emission properties. <i>Nanoscale</i> , 2012, 4, 645-651.	5.6	61
62	Size-dependent emission efficiency and luminescence characteristics of YBO <sub>3</sub> :Tb <sup>3+</sup> nanocrystals under vacuum ultraviolet excitations. <i>Journal of Applied Physics</i> , 2012, 112, 054321.	2.5	12
63	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
64	Performance of YAG:Eu <sup>3+</sup> , YAG:Tb <sup>3+</sup> and BAM:Eu <sup>2+</sup> plasma display nanophosphors. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	30
65	Highly Stabilized Monodispersed Citric Acid Capped ZnO:Cu <sup>2+</sup> Nanoparticles: Synthesis and Characterization for Their Applications in White Light Generation From UV LEDs. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 163-169.	2.0	21
66	Biological approach of zinc oxide nanoparticles formation and its characterization. <i>Advanced Materials Letters</i> , 2011, 2, 313-317.	0.6	201
67	Synthesis and characterization of single-crystalline $\pm$ -MoO <sub>3</sub> nanofibers for enhanced Li-ion intercalation applications. <i>CrystEngComm</i> , 2011, 13, 927-933.	2.6	91
68	Functionalized Biocompatible Nanoparticles for Site-Specific Imaging and Therapeutics. <i>Advances in Polymer Science</i> , 2011, , 233-275.	0.8	6
69	Synthesis of CdS nanoparticles with enhanced optical properties. <i>Materials Characterization</i> , 2011, 62, 43-52.	4.4	97
70	Variation in structural, optical and magnetic properties of Zn <sub>1-x</sub> Cr <sub>x</sub> O (x=0.0, 0.10, 0.15, and 0.20) nanoparticles: Role of dopant concentration on non-saturation of magnetization. <i>Materials Chemistry and Physics</i> , 2011, 125, 664-671.	4.0	35
71	An ultra sensitive saccharides detection assay using carboxyl functionalized chitosan containing Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanoparticles probe. <i>Analytical Methods</i> , 2011, 3, 217-226.	2.7	23
72	Raman investigations of Zn <sub>1-x</sub> Co <sub>x</sub> O nanocrystals: role of starting precursors on vibrational properties. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1802-1807.	2.5	14

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73	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
74	Advances in multifunctional magnetic nanoparticles. <i>Advanced Materials Letters</i> , 2011, 2, 246-263.	0.6	20
75	Editorial Of INDIAS 2010, India Special Issue. <i>Advanced Materials Letters</i> , 2011, 2, 245-245.	0.6	0
76	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
77	Microstructure and Phase Composition of Composite Coatings Formed by Plasma Spraying of ZrO <sub>2</sub> and B <sub>4</sub> C Powders. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 816-823.	3.1	18
78	Tunable Visible Emission of Ag-Doped CdZnS Alloy Quantum Dots. <i>Nanoscale Research Letters</i> , 2010, 5, 96-102.	5.7	50
79	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
80	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
81	Surfactant mediated phase transformation of CdS nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 121, 202-207.	4.0	43
82	Surfactant mediated optical properties of cytosine capped CdSe quantum dots. <i>Materials Letters</i> , 2010, 64, 1183-1186.	2.6	15
83	Alteration of magnetic and optical properties of ultrafine dilute magnetic semiconductor ZnO:Co <sup>2+</sup> nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 149-153.	9.4	67
84	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
85	Raman studies on Ag-ion doped CdZnS luminescent alloy quantum dots. <i>Chemical Physics Letters</i> , 2010, 495, 63-68.	2.6	17
86	Size dependence of Eu-O charge transfer process on luminescence characteristics of YBO <sub>3</sub> :Eu <sup>3+</sup> nanocrystals. <i>Optics Letters</i> , 2010, 35, 2331.	3.3	21
87	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
88	Investigation on magnetic properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles synthesized under surfactant-free condition by hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2010, 500, 206-210.	5.5	46
89	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
90	DNA base (cytosine) modified/capped ultrasmall Gd <sub>2</sub> S <sub>3</sub> :Eu <sup>3+</sup> gadofluoroprobes for platelet isolation. <i>Applied Physics Letters</i> , 2010, 97, 253702.	3.3	11

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91	Properties of sol-gel derived YAG:Eu <sup>3+</sup> hierarchical nanostructures with their time evolution studies. Journal of Applied Physics, 2009, 105, 034309.	2.5	9
92	Luminescence studies and formation mechanism of symmetrically dispersed ZnO quantum dots embedded in SiO <sub>2</sub> matrix. Journal of Luminescence, 2009, 129, 605-610.	3.1	41
93	Effect of iron doping concentration on magnetic properties of ZnO nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 2587-2591.	2.3	111
94	Effect of nickel doping concentration on structural and magnetic properties of ultrafine diluted magnetic semiconductor ZnO nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 3457-3461.	2.3	78
95	Doping dependent room-temperature ferromagnetism and structural properties of dilute magnetic semiconductor ZnO:Cu <sup>2+</sup> nanorods. Journal of Magnetism and Magnetic Materials, 2009, 321, 4001-4005.	2.3	118
96	Zinc Oxide (1% Cu) Nanoparticle in Nematic Liquid Crystal: Dielectric and Electro-Optical Study. Japanese Journal of Applied Physics, 2009, 48, 101501.	1.5	72
97	Relationship between oxygen defects and the photoluminescence property of ZnO nanoparticles: A spectroscopic view. Journal of Applied Physics, 2009, 106, .	2.5	47
98	Fine Encapsulated ZnO Nanophosphors And Their Potential Antibacterial Evaluation On The Gram Negative Bacillus Escherichia coli. , 2009, , .		0
99	Synthesis and characterization of Cd <sub>1-x</sub> Zn <sub>x</sub> S ternary nanocrystals. , 2007, , .		2