

Bipin Kumar Gupta

List of Publications by Citations

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93
papers

5,263
citations

33
h-index

72
g-index

97
ext. papers

5,911
ext. citations

5.6
avg, IF

5.71
L-index

#	Paper	IF	Citations
93	Graphene quantum dots derived from carbon fibers. <i>Nano Letters</i> , 2012 , 12, 844-9	11.5	1779
92	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. <i>Nanoscale</i> , 2016 , 8, 14297-340	7.7	261
91	Encapsulation of Fe ₂ O ₃ decorated reduced graphene oxide in polyaniline core-shell tubes as an exceptional tracker for electromagnetic environmental pollution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3581-3593	13	219
90	Multiwalled carbon nanotube/cement composites with exceptional electromagnetic interference shielding properties. <i>Carbon</i> , 2013 , 56, 86-96	10.4	218
89	High permittivity polyaniline-barium titanate nanocomposites with excellent electromagnetic interference shielding response. <i>Nanoscale</i> , 2013 , 5, 4330-6	7.7	201
88	Highly luminescent dual mode rare-earth nanorod assisted multi-stage excitable security ink for anti-counterfeiting applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10468-10475	7.1	193
87	Artificially stacked atomic layers: toward new van der Waals solids. <i>Nano Letters</i> , 2012 , 12, 3518-25	11.5	187
86	Synthesis and characterization of ultra-fine Y ₂ O ₃ :Eu ³⁺ nanophosphors for luminescent security ink applications. <i>Nanotechnology</i> , 2010 , 21, 055607	3.4	140
85	Phase dependent thermal and spectroscopic responses of Al ₂ O ₃ nanostructures with different morphogenesis. <i>Nanoscale</i> , 2015 , 7, 13313-44	7.7	137
84	Probing the engineered sandwich network of vertically aligned carbon nanotube/reduced graphene oxide composites for high performance electromagnetic interference shielding applications. <i>Carbon</i> , 2015 , 85, 79-88	10.4	123
83	High performance supercapacitor based on multilayer of polyaniline and graphene oxide. <i>Synthetic Metals</i> , 2015 , 199, 214-218	3.6	92
82	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. <i>Scientific Reports</i> , 2017 , 7, 1174	4.9	86
81	Facile Synthesis of ZnO/Reduced Graphene Oxide Nanocomposites for NO ₂ Gas Sensing Applications. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1912-1923	2.3	81
80	Optical bifunctionality of europium-complexed luminescent graphene nanosheets. <i>Nano Letters</i> , 2011 , 11, 5227-33	11.5	79
79	Unclonable Security Codes Designed From Multicolor Luminescent Lanthanide-Doped YO Nanorods for Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14301-14308	9.5	76
78	Synthesis and hydrogenation behaviour of graphitic nanofibres. <i>International Journal of Hydrogen Energy</i> , 2000 , 25, 825-830	6.7	65
77	A novel strategy to enhance ultraviolet light driven photocatalysis from graphene quantum dots infilled TiO ₂ nanotube arrays. <i>RSC Advances</i> , 2015 , 5, 10623-10631	3.7	58

76	Hybrid 2D nanomaterials as dual-mode contrast agents in cellular imaging. <i>Advanced Materials</i> , 2012 , 24, 2992-8	24	58
75	Further studies on microstructural characterization and hydrogenation behaviour of graphitic nanofibres. <i>International Journal of Hydrogen Energy</i> , 2001 , 26, 857-862	6.7	52
74	Probing highly luminescent europium-doped lanthanum orthophosphate nanorods for strategic applications. <i>Inorganic Chemistry</i> , 2015 , 54, 2616-25	5.1	48
73	Time-resolved and photoluminescence spectroscopy of Eu ³⁺ nanowires for promising fast optical sensor applications. <i>Dalton Transactions</i> , 2014 , 43, 17034-43	4.3	48
72	Probing a bifunctional luminomagnetic nanophosphor for biological applications: a photoluminescence and time-resolved spectroscopic study. <i>Small</i> , 2011 , 7, 1767-73	11	47
71	Flower-shaped cobalt oxide nano-structures as an efficient, flexible and stable electrocatalyst for the oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1580-1584	7.8	45
70	Highly luminescent-paramagnetic nanophosphor probes for in vitro high-contrast imaging of human breast cancer cells. <i>Small</i> , 2012 , 8, 3028-34	11	43
69	New insight into rare-earth doped gadolinium molybdate nanophosphor assisted broad spectral converters from UV to NIR for silicon solar cells. <i>RSC Advances</i> , 2015 , 5, 24729-24736	3.7	40
68	Sunlight-activated Eu ²⁺ /Dy ³⁺ doped SrAl ₂ O ₄ water resistant phosphorescent layer for optical displays and defence applications. <i>New Journal of Chemistry</i> , 2015 , 39, 3380-3387	3.6	40
67	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. <i>RSC Advances</i> , 2014 , 4, 54936-54947	3.7	39
66	High yield synthesis of electrolyte heating assisted electrochemically exfoliated graphene for electromagnetic interference shielding applications. <i>RSC Advances</i> , 2015 , 5, 19074-19081	3.7	39
65	Lanthanide-Based Coordination Polymers for the Size-Selective Detection of Nitroaromatics. <i>Crystal Growth and Design</i> , 2017 , 17, 3907-3916	3.5	38
64	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO ₂ Nanotubes 3D Arrays. <i>Scientific Reports</i> , 2015 , 5, 11612	4.9	38
63	A Novel Approach to Synthesise a Dual-Mode Luminescent Composite Pigment for Uncloneable High-Security Codes to Combat Counterfeiting. <i>Chemistry - A European Journal</i> , 2017 , 23, 17144-17151	4.8	36
62	Fabrication of artificially stacked ultrathin ZnS/MgF ₂ multilayer dielectric optical filters. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4872-7	9.5	33
61	Studies on synthesis and hydrogenation behaviour of graphitic nanofibres prepared through palladium catalyst assisted thermal cracking of acetylene. <i>Journal of Alloys and Compounds</i> , 2004 , 381, 301-308	5.7	33
60	Highly Efficient, Chemically Stable, and UV/Blue-Light-Excitable Biluminescent Security Ink to Combat Counterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44570-44575	9.5	31
59	New emerging rare-earth free yellow emitting 2D BCNO nanophosphor for white light emitting diodes. <i>New Journal of Chemistry</i> , 2015 , 39, 5161-5170	3.6	27

58	Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. <i>Scientific Reports</i> , 2016 , 6, 32401	4.9	27
57	Facile synthesis of defect-induced highly-luminescent pristine MgO nanostructures for promising solid-state lighting applications. <i>RSC Advances</i> , 2016 , 6, 4960-4968	3.7	25
56	Electrochemical energy storage performance of electrospun CoMn ₂ O ₄ nanofibers. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 59-66	5.7	25
55	Conversion of Industrial Bio-Waste into Useful Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 619-626	8.3	24
54	Highly efficient field emission properties of radially aligned carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6584-6590	7.1	23
53	New insight into the shape-controlled synthesis and microwave shielding properties of iron oxide covered with reduced graphene oxide. <i>RSC Advances</i> , 2014 , 4, 62413-62422	3.7	21
52	Single excitable dual emissive novel luminescent pigment to generate advanced security features for anti-counterfeiting applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13867-13877	7.1	21
51	Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature.. <i>RSC Advances</i> , 2020 , 10, 1007-1014	3.7	19
50	Highly Luminescent Dual Mode Polymeric Nanofiber-Based Flexible Mat for White Security Paper and Encrypted Nanotaggant Applications. <i>Chemistry - A European Journal</i> , 2018 , 24, 9477-9484	4.8	19
49	New emerging radially aligned carbon nano tubes comprised carbon hollow cylinder as an excellent absorber for electromagnetic environmental pollution. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5483-5490	7.1	18
48	Wide spectral photoresponse of template assisted out of plane grown ZnO/NiO composite nanowire photodetector. <i>Nanotechnology</i> , 2020 , 31, 025705	3.4	18
47	A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. <i>Journal of Luminescence</i> , 2018 , 196, 207-213	3.8	18
46	Ultrafast Excitonic Behavior in Two-Dimensional Metal Semiconductor Heterostructure. <i>ACS Photonics</i> , 2019 , 6, 1379-1386	6.3	17
45	A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. <i>Nanoscale</i> , 2017 , 9, 5002-5008	7.7	16
44	Two-Dimensional Double Hydroxide Nanoarchitecture with High Areal and Volumetric Capacitance. <i>ACS Omega</i> , 2018 , 3, 7204-7213	3.9	16
43	Probing on green long persistent Eu ²⁺ /Dy ³⁺ doped Sr ₃ Si ₄ O ₁₁ emerging phosphor for security applications. <i>Journal of Applied Physics</i> , 2015 , 117, 243104	2.5	16
42	Ultrasensitive Wearable Strain Sensors based on a VACNT/PDMS Thin Film for a Wide Range of Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8871-8879	9.5	16
41	Nitrogen doped high quality CVD grown graphene as a fast responding NO ₂ gas sensor. <i>New Journal of Chemistry</i> , 2018 , 42, 9550-9556	3.6	13

40	Probing of Ni-Encapsulated Ferromagnetic Boron Nitride Nanotubes by Time-Resolved and Steady-State Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12803-12809	3.8	12
39	Facile synthesis and characterization of pH-dependent pristine MgO nanostructures for visible light emission. <i>Journal of Materials Science</i> , 2017 , 52, 10480-10484	4.3	11
38	Ultrafast charge carrier dynamics in CdSe/VO core/shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6265-6273	3.6	10
37	Probing luminescent Fe-doped ZnO nanowires for high-performance oxygen gas sensing application. <i>RSC Advances</i> , 2014 , 4, 54953-54959	3.7	9
36	Eu doped Sodium gadolinium fluoride luminomagnetic nanophosphor as a bimodal nanoprobe for high-contrast bioimaging and external magnetic field tracking applications. <i>RSC Advances</i> , 2016 , 6, 44606-44618	3.7	9
35	Two-dimensional layered magnesium cobalt hydroxide crochet structure for high rate and long stable supercapacitor application. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	9
34	Development and Demonstration of Air Stable rGO-EC@AB5 Type Hydrogenated Intermetallic Hybrid for Hydrogen Fuelled Devices. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700087	5.9	8
33	Influence of the rate of radiation energy on the charge-carrier kinetics application of all-inorganic CsPbBr perovskite nanocrystals.. <i>RSC Advances</i> , 2020 , 10, 34651-34657	3.7	8
32	A Comparative Study of Compressible and Conductive Vertically Aligned Carbon Nanotube Forest in Different Polymer Matrixes for High-Performance Piezoresistive Force Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16946-16958	9.5	7
31	Field emission properties of highly ordered low-aspect ratio carbon nanocup arrays. <i>RSC Advances</i> , 2016 , 6, 9932-9939	3.7	7
30	Novel facets of multifunctional Ag@Fe3O4 core-shell nanoparticles for multimodal imaging applications. <i>Journal of Applied Physics</i> , 2018 , 124, 074901	2.5	7
29	Triluminescent Functional Composite Pigment for Non-Replicable Security Codes to Combat Counterfeiting. <i>ChemistrySelect</i> , 2018 , 3, 9627-9633	1.8	7
28	Luminomagnetic bifunctionality of Mn(2+)-bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. <i>Nanoscale</i> , 2015 , 7, 12498-509	7.7	6
27	Studies of Ultrafast Transient Absorption Spectroscopy of Gold Nanorods in an Aqueous Solution. <i>ACS Omega</i> , 2019 , 4, 12626-12631	3.9	6
26	Qualitative Analysis of Mechanically Exfoliated MoS2 Nanosheets Using Spectroscopic Probes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27264-27271	3.8	6
25	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. <i>RSC Advances</i> , 2017 , 7, 41486-41494	3.7	6
24	Radially aligned CNTs derived carbon hollow cylinder architecture for efficient energy storage. <i>Electrochimica Acta</i> , 2020 , 354, 136650	6.7	5
23	Directly grown SrTiO layered double hydroxide (LDH) entangled two dimensional nanosheet film with superior performances. <i>Electrochimica Acta</i> , 2019 , 328, 135063	6.7	5

22	Continuous Growth of Highly Reproducible Single-Layer Graphene Deposition on Cu Foil by Indigenously Developed LPCVD Setup. <i>ACS Omega</i> , 2019 , 4, 2893-2901	3.9	4
21	High-yield production of graphitic nanofibers. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2975-2979		4
20	New insight into printable europium-doped yttrium borate luminescent pigment for security ink applications. <i>Journal of Applied Physics</i> , 2019 , 125, 074903	2.5	4
19	A Facile Liquid Phase Exfoliation of Tungsten Diselenide using Dimethyl Sulfoxide as Polar Aprotic Solvent to Produce High-quality Nanosheets. <i>ChemNanoMat</i> , 2021 , 7, 328-333	3.5	4
18	New Insights into the Triton X-100 Induced Chemical Exfoliation of MoS ₂ to Derive Highly Luminescent Nanosheets. <i>ChemistrySelect</i> , 2019 , 4, 6219-6226	1.8	3
17	High Power Laser-Driven Ce ³⁺ -Doped Yttrium Aluminum Garnet Phosphor Incorporated Sapphire Disc for Outstanding White Light Conversion Efficiency. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900110	1.6	3
16	Power Dependent Hot Carrier Cooling Dynamics in Trioctylphosphine Capped CsPbBr ₃ Perovskite Quantum Dots Using Ultrafast Spectroscopy. <i>ChemistrySelect</i> , 2021 , 6, 10165-10177	1.8	3
15	A Novel Approach to Design Luminomagnetic Pigment Formulated Security Ink for Manifold Protection to Bank Cheques against Counterfeiting. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000973	6.8	3
14	New insight into the growth of monolayer MoS ₂ flakes using an indigenously developed CVD setup: a study on shape evolution and spectroscopy. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5429-5441	7.8	3
13	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. <i>Scientific Reports</i> , 2017 , 7, 42515	4.9	2
12	Tunable Mechanical, Electrical, and Thermal Properties of Polymer Nanocomposites through GMA Bridging at Interface. <i>ACS Omega</i> , 2018 , 3, 3675-3687	3.9	2
11	An Innovative Method for Large-Scale Synthesis of Hexagonal Boron Nitride Nanosheets by Liquid Phase Exfoliation. <i>ChemistrySelect</i> , 2020 , 5, 12564-12569	1.8	2
10	Graphene nanosheets assisted carbon hollow cylinder for high-performance field emission applications. <i>Materials Research Express</i> , 2019 , 6, 095066	1.7	1
9	Advanced Materials for Strategic and Societal Applications 2020 , 811-879		1
8	Partial Pressure Assisted Growth of Single-Layer Graphene Grown by Low-Pressure Chemical Vapor Deposition: Implications for High-Performance Graphene FET Devices. <i>ACS Omega</i> , 2020 , 5, 22109-22118	3.9	1
7	Temperature dependent Raman scattering of directly grown twisted bilayer graphene film using LPCVD method. <i>Carbon</i> , 2021 , 177, 366-376	10.4	1
6	Frequency upconversion, paramagnetic behavior and biocompatibility of Gd ₂ O ₃ :Er ³⁺ /Yb ³⁺ nanorods. <i>Journal of Photochemistry and Photobiology</i> , 2021 , 100081	0.8	0
5	A Green Route Strategy for the Synthesis of Multifunctional Polymer Nanocomposites for Environmental Sustainability. <i>ChemistrySelect</i> , 2019 , 4, 1491-1501	1.8	

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3 Investigations on the Carbon Special Form Graphitic Nanofibres as a Hydrogen Storage Materials.
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2 Probing into Bifunctional Luminomagnetic Upconverting Nanorods for External Magnetic Tracking
Applications. *ChemistrySelect*, **2020**, 5, 12159-12167 1.8

1 Role of processing parameters in CVD grown crystalline monolayer MoSe₂. *RSC Advances*, **2022**, 12, 13428-13439 3.7