Bipin Kumar Gupta

List of Publications by Year in Descending Order

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	Role of processing parameters in CVD grown crystalline monolayer MoSe.. *RSC Advances*, **2022**, 12, 13428-13439	3.7	
92	Frequency upconversion, paramagnetic behavior and biocompatibility of Gd2O3:Er3+/Yb3+ nanorods. *Journal of Photochemistry and Photobiology*, **2021**, 100081	0.8	0
91	Power Dependent Hot Carrier Cooling Dynamics in Trioctylphosphine Capped CsPbBr3 Perovskite Quantum Dots Using Ultrafast Spectroscopy. *ChemistrySelect*, **2021**, 6, 10165-10177	1.8	3
90	Temperature dependent Raman scattering of directly grown twisted bilayer graphene film using LPCVD method. *Carbon*, **2021**, 177, 366-376	10.4	1
89	A Novel Approach to Design Luminomagnetic Pigment Formulated Security Ink for Manifold Protection to Bank Cheques against Counterfeiting. *Advanced Materials Technologies*, **2021**, 6, 2000973	6.8	3
88	New insight into the growth of monolayer MoS2 flakes using an indigenously developed CVD setup: a study on shape evolution and spectroscopy. *Materials Chemistry Frontiers*, **2021**, 5, 5429-5441	7.8	3
87	A Facile Liquid Phase Exfoliation of Tungsten Diselenide using Dimethyl Sulfoxide as Polar Aprotic Solvent to Produce High-quality Nanosheets. *ChemNanoMat*, **2021**, 7, 328-333	3.5	4
86	Ultrasensitive Wearable Strain Sensors based on a VACNT/PDMS Thin Film for a Wide Range of Human Motion Monitoring. *ACS Applied Materials & Interfaces*, **2021**, 13, 8871-8879	9.5	16
85	Radially aligned CNTs derived carbon hollow cylinder architecture for efficient energy storage. *Electrochimica Acta*, **2020**, 354, 136650	6.7	5
84	A Comparative Study of Compressible and Conductive Vertically Aligned Carbon Nanotube Forest in Different Polymer Matrixes for High-Performance Piezoresistive Force Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 16946-16958	9.5	7
83	Materials Metrology and Nanomaterials **2020**, 767-809		
82	Advanced Materials for Strategic and Societal Applications **2020**, 811-879		1
81	Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature.. *RSC Advances*, **2020**, 10, 1007-1014	3.7	19
80	Influence of the rate of radiation energy on the charge-carrier kinetics application of all-inorganic CsPbBr perovskite nanocrystals.. *RSC Advances*, **2020**, 10, 34651-34657	3.7	8
79	Probing into Bifunctional Luminomagnetic Upconverting Nanorods for External Magnetic Tracking Applications. *ChemistrySelect*, **2020**, 5, 12159-12167	1.8	
78	An Innovative Method for Large-Scale Synthesis of Hexagonal Boron Nitride Nanosheets by Liquid Phase Exfoliation. *ChemistrySelect*, **2020**, 5, 12564-12569	1.8	2
77	Partial Pressure Assisted Growth of Single-Layer Graphene Grown by Low-Pressure Chemical Vapor Deposition: Implications for High-Performance Graphene FET Devices. *ACS Omega*, **2020**, 5, 22109-22118	3.9	1

76	Wide spectral photoresponse of template assisted out of plane grown ZnO/NiO composite nanowire photodetector. *Nanotechnology*, **2020**, 31, 025705	3.4	18
75	A Green Route Strategy for the Synthesis of Multifunctional Polymer Nanocomposites for Environmental Sustainability. *ChemistrySelect*, **2019**, 4, 1491-1501	1.8	
74	New Insights into the Triton X-100 Induced Chemical Exfoliation of MoS2 to Derive Highly Luminescent Nanosheets. *ChemistrySelect*, **2019**, 4, 6219-6226	1.8	3
73	Ultrafast Excitonic Behavior in Two-Dimensional Metal□Semiconductor Heterostructure. *ACS Photonics*, **2019**, 6, 1379-1386	6.3	17
72	Continuous Growth of Highly Reproducible Single-Layer Graphene Deposition on Cu Foil by Indigenously Developed LPCVD Setup. *ACS Omega*, **2019**, 4, 2893-2901	3.9	4
71	High Power Laser-Driven Ce3+-Doped Yttrium Aluminum Garnet Phosphor Incorporated Sapphire Disc for Outstanding White Light Conversion Efficiency. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1900110	1.6	3
70	Graphene nanosheets assisted carbon hollow cylinder for high-performance field emission applications. *Materials Research Express*, **2019**, 6, 095066	1.7	1
69	Studies of Ultrafast Transient Absorption Spectroscopy of Gold Nanorods in an Aqueous Solution. *ACS Omega*, **2019**, 4, 12626-12631	3.9	6
68	Directly grown Sr□o layered double hydroxide (LDH) entangled two dimensional nanosheet film with superior performances. *Electrochimica Acta*, **2019**, 328, 135063	6.7	5
67	Qualitative Analysis of Mechanically Exfoliated MoS2 Nanosheets Using Spectroscopic Probes. *Journal of Physical Chemistry C*, **2019**, 123, 27264-27271	3.8	6
66	Ultrafast charge carrier dynamics in CdSe/VO core/shell quantum dots. *Physical Chemistry Chemical Physics*, **2019**, 21, 6265-6273	3.6	10
65	New insight into printable europium-doped yttrium borate luminescent pigment for security ink applications. *Journal of Applied Physics*, **2019**, 125, 074903	2.5	4
64	Two-dimensional layered magnesium□obalt hydroxide crochet structure for high rate and long stable supercapacitor application. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	9
63	Single excitable dual emissive novel luminescent pigment to generate advanced security features for anti-counterfeiting applications. *Journal of Materials Chemistry C*, **2019**, 7, 13867-13877	7.1	21
62	Nitrogen doped high quality CVD grown graphene as a fast responding NO2 gas sensor. *New Journal of Chemistry*, **2018**, 42, 9550-9556	3.6	13
61	Tunable Mechanical, Electrical, and Thermal Properties of Polymer Nanocomposites through GMA Bridging at Interface. *ACS Omega*, **2018**, 3, 3675-3687	3.9	2
60	Two-Dimensional Double Hydroxide Nanoarchitecture with High Areal and Volumetric Capacitance. *ACS Omega*, **2018**, 3, 7204-7213	3.9	16
59	Novel facets of multifunctional Ag@Fe3O4 core-shell nanoparticles for multimodal imaging applications. *Journal of Applied Physics*, **2018**, 124, 074901	2.5	7

58	A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. *Journal of Luminescence*, **2018**, 196, 207-213	3.8	18
57	Highly Efficient, Chemically Stable, and UV/Blue-Light-Excitable Biluminescent Security Ink to Combat Counterfeiting. *ACS Applied Materials & Interfaces*, **2018**, 10, 44570-44575	9.5	31
56	Triluminescent Functional Composite Pigment for Non-Replicable Security Codes to Combat Counterfeiting. *ChemistrySelect*, **2018**, 3, 9627-9633	1.8	7
55	Highly Luminescent Dual Mode Polymeric Nanofiber-Based Flexible Mat for White Security Paper and Encrypted Nanotaggant Applications. *Chemistry - A European Journal*, **2018**, 24, 9477-9484	4.8	19
54	Highly efficient field emission properties of radially aligned carbon nanotubes. *Journal of Materials Chemistry C*, **2018**, 6, 6584-6590	7.1	23
53	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. *Scientific Reports*, **2017**, 7, 42515	4.9	2
52	Unclonable Security Codes Designed from Multicolor Luminescent Lanthanide-Doped YO Nanorods for Anticounterfeiting. *ACS Applied Materials & Interfaces*, **2017**, 9, 14301-14308	9.5	76
51	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. *Scientific Reports*, **2017**, 7, 1174	4.9	86
50	Lanthanide-Based Coordination Polymers for the Size-Selective Detection of Nitroaromatics. *Crystal Growth and Design*, **2017**, 17, 3907-3916	3.5	38
49	Facile synthesis and characterization of pH-dependent pristine MgO nanostructures for visible light emission. *Journal of Materials Science*, **2017**, 52, 10480-10484	4.3	11
48	Flower-shaped cobalt oxide nano-structures as an efficient, flexible and stable electrocatalyst for the oxygen evolution reaction. *Materials Chemistry Frontiers*, **2017**, 1, 1580-1584	7.8	45
47	A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. *Nanoscale*, **2017**, 9, 5002-5008	7.7	16
46	Development and Demonstration of Air Stable rGO-EC@AB5 Type Hydrogenated Intermetallic Hybrid for Hydrogen Fuelled Devices. *Advanced Sustainable Systems*, **2017**, 1, 1700087	5.9	8
45	A Novel Approach to Synthesise a Dual-Mode Luminescent Composite Pigment for Uncloneable High-Security Codes to Combat Counterfeiting. *Chemistry - A European Journal*, **2017**, 23, 17144-17151	4.8	36
44	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. *RSC Advances*, **2017**, 7, 41486-41494	3.7	6
43	Electrochemical energy storage performance of electrospun CoMn2O4 nanofibers. *Journal of Alloys and Compounds*, **2017**, 692, 59-66	5.7	25
42	Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. *Scientific Reports*, **2016**, 6, 32401	4.9	27
41	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. *Nanoscale*, **2016**, 8, 14297-340	7.7	261

40	Field emission properties of highly ordered low-aspect ratio carbon nanocup arrays. *RSC Advances*, **2016**, 6, 9932-9939	3.7	7
39	Facile synthesis of defect-induced highly-luminescent pristine MgO nanostructures for promising solid-state lighting applications. *RSC Advances*, **2016**, 6, 4960-4968	3.7	25
38	New emerging radially aligned carbon nano tubes comprised carbon hollow cylinder as an excellent absorber for electromagnetic environmental pollution. *Journal of Materials Chemistry C*, **2016**, 4, 5483-5490	7.1	18
37	Eu doped sodium gadolinium fluoride luminomagnetic nanophosphor as a bimodal nanoprobe for high-contrast bioimaging and external magnetic field tracking applications. *RSC Advances*, **2016**, 6, 44606-44613	3.7	8
36	Facile Synthesis of ZnO Reduced Graphene Oxide Nanocomposites for NO2 Gas Sensing Applications. *European Journal of Inorganic Chemistry*, **2015**, 2015, 1912-1923	2.3	81
35	New insight into rare-earth doped gadolinium molybdate nanophosphor assisted broad spectral converters from UV to NIR for silicon solar cells. *RSC Advances*, **2015**, 5, 24729-24736	3.7	40
34	Probing highly luminescent europium-doped lanthanum orthophosphate nanorods for strategic applications. *Inorganic Chemistry*, **2015**, 54, 2616-25	5.1	48
33	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO2 Nanotubes 3D Arrays. *Scientific Reports*, **2015**, 5, 11612	4.9	38
32	Luminomagnetic bifunctionality of Mn(2+)-bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. *Nanoscale*, **2015**, 7, 12498-509	7.7	6
31	Phase dependent thermal and spectroscopic responses of Al2O3 nanostructures with different morphogenesis. *Nanoscale*, **2015**, 7, 13313-44	7.7	137
30	New emerging rare-earth free yellow emitting 2D BCNO nanophosphor for white light emitting diodes. *New Journal of Chemistry*, **2015**, 39, 5161-5170	3.6	27
29	Probing the engineered sandwich network of vertically aligned carbon nanotube reduced graphene oxide composites for high performance electromagnetic interference shielding applications. *Carbon*, **2015**, 85, 79-88	10.4	123
28	A novel strategy to enhance ultraviolet light driven photocatalysis from graphene quantum dots infilled TiO2 nanotube arrays. *RSC Advances*, **2015**, 5, 10623-10631	3.7	58
27	High performance supercapacitor based on multilayer of polyaniline and graphene oxide. *Synthetic Metals*, **2015**, 199, 214-218	3.6	92
26	Probing on green long persistent Eu2+/Dy3+ doped Sr3SiAl4O11 emerging phosphor for security applications. *Journal of Applied Physics*, **2015**, 117, 243104	2.5	16
25	High yield synthesis of electrolyte heating assisted electrochemically exfoliated graphene for electromagnetic interference shielding applications. *RSC Advances*, **2015**, 5, 19074-19081	3.7	39
24	Sunlight-activated Eu2+/Dy3+ doped SrAl2O4 water resistant phosphorescent layer for optical displays and defence applications. *New Journal of Chemistry*, **2015**, 39, 3380-3387	3.6	40
23	New insight into the shape-controlled synthesis and microwave shielding properties of iron oxide covered with reduced graphene oxide. *RSC Advances*, **2014**, 4, 62413-62422	3.7	21

22	Highly luminescent dual mode rare-earth nanorod assisted multi-stage excitable security ink for anti-counterfeiting applications. *Journal of Materials Chemistry C*, **2014**, 2, 10468-10475	7.1	193
21	Probing luminescent Fe-doped ZnO nanowires for high-performance oxygen gas sensing application. *RSC Advances*, **2014**, 4, 54953-54959	3.7	9
20	Time-resolved and photoluminescence spectroscopy of □AlO□ nanowires for promising fast optical sensor applications. *Dalton Transactions*, **2014**, 43, 17034-43	4.3	48
19	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. *RSC Advances*, **2014**, 4, 54936-54947	3.7	39
18	Encapsulation of □Fe2O3 decorated reduced graphene oxide in polyaniline core□shell tubes as an exceptional tracker for electromagnetic environmental pollution. *Journal of Materials Chemistry A*, **2014**, 2, 3581-3593	13	219
17	Fabrication of artificially stacked ultrathin ZnS/MgF2 multilayer dielectric optical filters. *ACS Applied Materials & Interfaces*, **2013**, 5, 4872-7	9.5	33
16	Multiwalled carbon nanotube/cement composites with exceptional electromagnetic interference shielding properties. *Carbon*, **2013**, 56, 86-96	10.4	218
15	Conversion of Industrial Bio-Waste into Useful Nanomaterials. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 619-626	8.3	24
14	High permittivity polyaniline-barium titanate nanocomposites with excellent electromagnetic interference shielding response. *Nanoscale*, **2013**, 5, 4330-6	7.7	201
13	Graphene quantum dots derived from carbon fibers. *Nano Letters*, **2012**, 12, 844-9	11.5	1779
12	Probing of Ni-Encapsulated Ferromagnetic Boron Nitride Nanotubes by Time-Resolved and Steady-State Photoluminescence Spectroscopy. *Journal of Physical Chemistry C*, **2012**, 116, 12803-12809	3.8	12
11	Highly luminescent-paramagnetic nanophosphor probes for in vitro high-contrast imaging of human breast cancer cells. *Small*, **2012**, 8, 3028-34	11	43
10	Hybrid 2D nanomaterials as dual-mode contrast agents in cellular imaging. *Advanced Materials*, **2012**, 24, 2992-8	24	58
9	Artificially stacked atomic layers: toward new van der Waals solids. *Nano Letters*, **2012**, 12, 3518-25	11.5	187
8	Optical bifunctionality of europium-complexed luminescent graphene nanosheets. *Nano Letters*, **2011**, 11, 5227-33	11.5	79
7	Probing a bifunctional luminomagnetic nanophosphor for biological applications: a photoluminescence and time-resolved spectroscopic study. *Small*, **2011**, 7, 1767-73	11	47
6	Synthesis and characterization of ultra-fine Y2O3:Eu3+ nanophosphors for luminescent security ink applications. *Nanotechnology*, **2010**, 21, 055607	3.4	140
5	High-yield production of graphitic nanofibers. *International Journal of Hydrogen Energy*, **2008**, 33, 2975-2979	3.7	4

4	Studies on synthesis and hydrogenation behaviour of graphitic nanofibres prepared through palladium catalyst assisted thermal cracking of acetylene. *Journal of Alloys and Compounds*, **2004**, 381, 301-308	5.7	33
3	Investigations on the Carbon Special Form Graphitic Nanofibres as a Hydrogen Storage Materials. *NATO Science Series Series II, Mathematics, Physics and Chemistry*, **2004**, 177-184		
2	Further studies on microstructural characterization and hydrogenation behaviour of graphitic nanofibres. *International Journal of Hydrogen Energy*, **2001**, 26, 857-862	6.7	52
1	Synthesis and hydrogenation behaviour of graphitic nanofibres. *International Journal of Hydrogen Energy*, **2000**, 25, 825-830	6.7	65