

Bipin Kumar Gupta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2479004/publications.pdf>

Version: 2024-02-01

95
papers

6,539
citations

101496

36
h-index

62565

80
g-index

97
all docs

97
docs citations

97
times ranked

10103
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Quantum Dots Derived from Carbon Fibers. <i>Nano Letters</i> , 2012, 12, 844-849.	4.5	2,041
2	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. <i>Nanoscale</i> , 2016, 8, 14297-14340.	2.8	378
3	Multiwalled carbon nanotube/cement composites with exceptional electromagnetic interference shielding properties. <i>Carbon</i> , 2013, 56, 86-96.	5.4	277
4	Encapsulation of Fe^{2+} 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.	5.2	258
5	High permittivity polyaniline-barium titanate nanocomposites with excellent electromagnetic interference shielding response. <i>Nanoscale</i> , 2013, 5, 4330.	2.8	245
6	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.	2.7	231
7	Artificially Stacked Atomic Layers: Toward New van der Waals Solids. <i>Nano Letters</i> , 2012, 12, 3518-3525.	4.5	211
8	Phase dependent thermal and spectroscopic responses of Al_2O_3 nanostructures with different morphogenesis. <i>Nanoscale</i> , 2015, 7, 13313-13344.	2.8	180
9	Synthesis and characterization of ultra-fine $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ nanophosphors for luminescent security ink applications. <i>Nanotechnology</i> , 2010, 21, 055607.	1.3	154
10	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.	5.4	141
11	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. <i>Scientific Reports</i> , 2017, 7, 1174.	1.6	122
12	High performance supercapacitor based on multilayer of polyaniline and graphene oxide. <i>Synthetic Metals</i> , 2015, 199, 214-218.	2.1	105
13	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.	1.0	103
14	Unclonable Security Codes Designed from Multicolor Luminescent Lanthanide-Doped Y_2O_3 Nanorods for Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14301-14308.	4.0	102
15	Optical Bifunctionality of Europium-Complexed Luminescent Graphene Nanosheets. <i>Nano Letters</i> , 2011, 11, 5227-5233.	4.5	88
16	Synthesis and hydrogenation behaviour of graphitic nanofibres. <i>International Journal of Hydrogen Energy</i> , 2000, 25, 825-830.	3.8	76
17	Time-resolved and photoluminescence spectroscopy of Al_2O_3 nanowires for promising fast optical sensor applications. <i>Dalton Transactions</i> , 2014, 43, 17034-17043.	1.6	67
18	Hybrid 2D Nanomaterials as Dual-Mode Contrast Agents in Cellular Imaging. <i>Advanced Materials</i> , 2012, 24, 2992-2998.	11.1	66

#	ARTICLE	IF	CITATIONS
19	A novel strategy to enhance ultraviolet light driven photocatalysis from graphene quantum dots infilled TiO ₂ nanotube arrays. RSC Advances, 2015, 5, 10623-10631.	1.7	65
20	Further studies on microstructural characterization and hydrogenation behaviour of graphitic nanofibres. International Journal of Hydrogen Energy, 2001, 26, 857-862.	3.8	57
21	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.	3.2	56
22	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.	4.0	55
23	Probing Highly Luminescent Europium-Doped Lanthanum Orthophosphate Nanorods for Strategic Applications. Inorganic Chemistry, 2015, 54, 2616-2625.	1.9	54
24	Electrochemical energy storage performance of electrospun CoMn ₂ O ₄ nanofibers. Journal of Alloys and Compounds, 2017, 692, 59-66.	2.8	54
25	Sunlight-activated Eu ²⁺ /Dy ³⁺ doped SrAl ₂ O ₄ water resistant phosphorescent layer for optical displays and defence applications. New Journal of Chemistry, 2015, 39, 3380-3387.	1.4	51
26	Highly Efficient, Chemically Stable, and UV/Blue-Light-Excitable Biluminescent Security Ink to Combat Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 44570-44575.	4.0	51
27	Probing a Bifunctional Luminomagnetic Nanophosphor for Biological Applications: a Photoluminescence and Time-Resolved Spectroscopic Study. Small, 2011, 7, 1767-1773.	5.2	48
28	High yield synthesis of electrolyte heating assisted electrochemically exfoliated graphene for electromagnetic interference shielding applications. RSC Advances, 2015, 5, 19074-19081.	1.7	47
29	Highly Luminescent Paramagnetic Nanophosphor Probes for In Vitro High Contrast Imaging of Human Breast Cancer Cells. Small, 2012, 8, 3028-3034.	5.2	46
30	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.	1.7	46
31	Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature. RSC Advances, 2020, 10, 1007-1014.	1.7	46
32	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. RSC Advances, 2014, 4, 54936-54947.	1.7	45
33	Lanthanide-Based Coordination Polymers for the Size-Selective Detection of Nitroaromatics. Crystal Growth and Design, 2017, 17, 3907-3916.	1.4	45
34	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO ₂ Nanotubes 3D Arrays. Scientific Reports, 2015, 5, 11612.	1.6	42
35	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.	2.8	41
36	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.	1.7	40

#	ARTICLE	IF	CITATIONS
37	Fabrication of Artificially Stacked Ultrathin ZnS/MgF ₂ Multilayer Dielectric Optical Filters. ACS Applied Materials & Interfaces, 2013, 5, 4872-4877.	4.0	38
38	Facile synthesis of defect-induced highly-luminescent pristine MgO nanostructures for promising solid-state lighting applications. RSC Advances, 2016, 6, 4960-4968.	1.7	36
39	Two-Dimensional Double Hydroxide Nanoarchitecture with High Areal and Volumetric Capacitance. ACS Omega, 2018, 3, 7204-7213.	1.6	33
40	Conversion of Industrial Bio-Waste into Useful Nanomaterials. ACS Sustainable Chemistry and Engineering, 2013, 1, 619-626.	3.2	30
41	New emerging rare-earth free yellow emitting 2D BCNO nanophosphor for white light emitting diodes. New Journal of Chemistry, 2015, 39, 5161-5170.	1.4	30
42	Highly efficient field emission properties of radially aligned carbon nanotubes. Journal of Materials Chemistry C, 2018, 6, 6584-6590.	2.7	30
43	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.	2.7	30
44	Wide spectral photoresponse of template assisted out of plane grown ZnO/NiO composite nanowire photodetector. Nanotechnology, 2020, 31, 025705.	1.3	30
45	Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. Scientific Reports, 2016, 6, 32401.	1.6	29
46	A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. Journal of Luminescence, 2018, 196, 207-213.	1.5	27
47	Nitrogen doped high quality CVD grown graphene as a fast responding NO ₂ gas sensor. New Journal of Chemistry, 2018, 42, 9550-9556.	1.4	24
48	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.	1.7	24
49	Ultrafast Excitonic Behavior in Two-Dimensional Metal-Semiconductor Heterostructure. ACS Photonics, 2019, 6, 1379-1386.	3.2	23
50	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.	1.7	22
51	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.	2.7	21
52	Two-dimensional layered magnesium-cobalt hydroxide crochet structure for high rate and long stable supercapacitor application. Npj 2D Materials and Applications, 2019, 3, .	3.9	19
53	Probing on green long persistent Eu ²⁺ /Dy ³⁺ doped Sr ₃ SiAl ₄ O ₁₁ emerging phosphor for security applications. Journal of Applied Physics, 2015, 117, .	1.1	18
54	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.	4.0	18

#	ARTICLE	IF	CITATIONS
55	Facile synthesis and characterization of pH-dependent pristine MgO nanostructures for visible light emission. <i>Journal of Materials Science</i> , 2017, 52, 10480-10484.	1.7	17
56	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.	2.8	17
57	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.	1.5	15
58	Ultrasensitive Boron-Nitrogen-Codoped CVD Graphene-Derived NO ₂ Gas Sensor. <i>ACS Materials Au</i> , 2022, 2, 356-366.	2.6	15
59	Development and Demonstration of Air Stable rGO@AB ₅ Type Hydrogenated Intermetallic Hybrid for Hydrogen Fuelled Devices. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700087.	2.7	14
60	Influence of the rate of radiation energy on the charge-carrier kinetics application of all-inorganic CsPbBr ₃ perovskite nanocrystals. <i>RSC Advances</i> , 2020, 10, 34651-34657.	1.7	14
61	Eu ³⁺ doped β -sodium gadolinium fluoride luminomagnetic nanophosphor as a bimodal nanoprobe for high-contrast in vitro bioimaging and external magnetic field tracking applications. <i>RSC Advances</i> , 2016, 6, 44606-44615.	1.7	12
62	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. <i>RSC Advances</i> , 2017, 7, 41486-41494.	1.7	12
63	Studies of Ultrafast Transient Absorption Spectroscopy of Gold Nanorods in an Aqueous Solution. <i>ACS Omega</i> , 2019, 4, 12626-12631.	1.6	12
64	Directly grown Sr-Co layered double hydroxide (LDH) entangled two dimensional nanosheet film with superior performances. <i>Electrochimica Acta</i> , 2019, 328, 135063.	2.6	12
65	An Innovative Method for Large-Scale Synthesis of Hexagonal Boron Nitride Nanosheets by Liquid Phase Exfoliation. <i>ChemistrySelect</i> , 2020, 5, 12564-12569.	0.7	12
66	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.	3.0	12
67	Triluminescent Functional Composite Pigment for Non-Replicable Security Codes to Combat Counterfeiting. <i>ChemistrySelect</i> , 2018, 3, 9627-9633.	0.7	11
68	Ultrafast charge carrier dynamics in CdSe/V ₂ O ₅ core/shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6265-6273.	1.3	11
69	Probing luminescent Fe-doped ZnO nanowires for high-performance oxygen gas sensing application. <i>RSC Advances</i> , 2014, 4, 54953-54959.	1.7	10
70	Field emission properties of highly ordered low-aspect ratio carbon nanocup arrays. <i>RSC Advances</i> , 2016, 6, 9932-9939.	1.7	10
71	Novel facets of multifunctional Ag@Fe ₃ O ₄ core-shell nanoparticles for multimodal imaging applications. <i>Journal of Applied Physics</i> , 2018, 124, 074901.	1.1	10
72	Qualitative Analysis of Mechanically Exfoliated MoS ₂ Nanosheets Using Spectroscopic Probes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27264-27271.	1.5	9

#	ARTICLE	IF	CITATIONS
73	Continuous Growth of Highly Reproducible Single-Layer Graphene Deposition on Cu Foil by Indigenously Developed LPCVD Setup. ACS Omega, 2019, 4, 2893-2901.	1.6	8
74	New insight into printable europium-doped yttrium borate luminescent pigment for security ink applications. Journal of Applied Physics, 2019, 125, .	1.1	8
75	Radially aligned CNTs derived carbon hollow cylinder architecture for efficient energy storage. Electrochimica Acta, 2020, 354, 136650.	2.6	8
76	New insight into the growth of monolayer MoS ₂ flakes using an indigenously developed CVD setup: a study on shape evolution and spectroscopy. Materials Chemistry Frontiers, 2021, 5, 5429-5441.	3.2	8
77	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.	1.5	8
78	Luminomagnetic bifunctionality of Mn ²⁺ -bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. Nanoscale, 2015, 7, 12498-12509.	2.8	7
79	Temperature dependent Raman scattering of directly grown twisted bilayer graphene film using LPCVD method. Carbon, 2021, 177, 366-376.	5.4	7
80	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.	1.6	6
81	Power Dependent Hot Carrier Cooling Dynamics in Trioctylphosphine Capped CsPbBr ₃ Perovskite Quantum Dots Using Ultrafast Spectroscopy. ChemistrySelect, 2021, 6, 10165-10177.	0.7	6
82	Frequency upconversion, paramagnetic behavior and biocompatibility of Gd ₂ O ₃ :Er ³⁺ /Yb ³⁺ nanorods. Journal of Photochemistry and Photobiology, 2021, 8, 100081.	1.1	6
83	High-yield production of graphitic nanofibers. International Journal of Hydrogen Energy, 2008, 33, 2975-2979.	3.8	5
84	Tunable Mechanical, Electrical, and Thermal Properties of Polymer Nanocomposites through GMA Bridging at Interface. ACS Omega, 2018, 3, 3675-3687.	1.6	5
85	High Power Laser-Driven Ce ³⁺ -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.	0.8	4
86	New Insights into the Triton X-100 Induced Chemical Exfoliation of MoS ₂ to Derive Highly Luminescent Nanosheets. ChemistrySelect, 2019, 4, 6219-6226.	0.7	4
87	Role of processing parameters in CVD grown crystalline monolayer MoSe ₂ . RSC Advances, 2022, 12, 13428-13439.	1.7	3
88	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. Scientific Reports, 2017, 7, 42515.	1.6	2
89	Graphene nanosheets assisted carbon hollow cylinder for high-performance field emission applications. Materials Research Express, 2019, 6, 095066.	0.8	1
90	Advanced Materials for Strategic and Societal Applications. , 2020, , 811-879.		1

#	ARTICLE	IF	CITATIONS
91	Frontispiece: Highly Luminescent Dual Mode Polymeric Nanofiber-Based Flexible Mat for White Security Paper and Encrypted Nanotaggant Applications. Chemistry - A European Journal, 2018, 24, .	1.7	0
92	Correction to "Ultrafast Excitonic Behavior in Two-Dimensional Metal-Semiconductor Heterostructure. ACS Photonics, 2019, 6, 2181-2181.	3.2	0
93	A Green Route Strategy for the Synthesis of Multifunctional Polymer Nanocomposites for Environmental Sustainability. ChemistrySelect, 2019, 4, 1491-1501.	0.7	0
94	Probing into Bifunctional Luminomagnetic Upconverting Nanorods for External Magnetic Tracking Applications. ChemistrySelect, 2020, 5, 12159-12167.	0.7	0
95	Materials Metrology and Nanomaterials. , 2020, , 767-809.		0