

Sumit Saxena

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,324
citations

430442

18
h-index

360668

35
g-index

58
all docs

58
docs citations

58
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of structural and electronic properties of graphene oxide. Applied Physics Letters, 2011, 99, .	1.5	252
2	Stanene: Atomically Thick Free-standing Layer of 2D Hexagonal Tin. Scientific Reports, 2016, 6, 31073.	1.6	131
3	Investigation of the Local Structure of Graphene Oxide. Journal of Physical Chemistry Letters, 2010, 1, 3433-3437.	2.1	115
4	Spectroscopic investigation of confinement effects on optical properties of graphene oxide. Applied Physics Letters, 2011, 98, .	1.5	80
5	Synthesis and patterning of graphene: Strategies and prospects. Applied Physics Reviews, 2019, 6, .	5.5	51
6	Surface Engineering of Graphene Oxide Shells Using Lamellar LDH Nanostructures. ACS Applied Materials & Interfaces, 2019, 11, 20232-20240.	4.0	49
7	Surface enhanced 3D rGO hybrids and porous rGO nano-networks as high performance supercapacitor electrodes for integrated energy storage devices. Carbon, 2020, 158, 527-535.	5.4	43
8	Optical properties of few layered graphene quantum dots. Materials Research Express, 2015, 2, 095024.	0.8	40
9	Insights on the Atomic and Electronic Structure of Boron Nanoribbons. Physical Review Letters, 2010, 104, 245502.	2.9	39
10	Nitrogen doped carbon quantum dots as Co-active materials for highly efficient dye sensitized solar cells. Carbon, 2021, 183, 169-175.	5.4	35
11	Rationally engineered 3D-dendritic cell-like morphologies of LDH nanostructures using graphene-based core-shell structures. Microsystems and Nanoengineering, 2019, 5, 65.	3.4	34
12	Double Negativity in 3D Space Coiling Metamaterials. Scientific Reports, 2016, 6, 33683.	1.6	30
13	Interacting Quasi-Two-Dimensional Sheets of Interlinked Carbon Nanotubes: A High-Pressure Phase of Carbon. ACS Nano, 2010, 4, 3515-3521.	7.3	29
14	Ab initio density functional studies of the restructuring of graphene nanoribbons to form tailored single walled carbon nanotubes. Carbon, 2010, 48, 1153-1158.	5.4	25
15	Graphene oxide - Polyvinyl alcohol nanocomposite based electrode material for supercapacitors. Journal of Power Sources, 2016, 321, 102-105.	4.0	25
16	Photoluminescence properties of Gd:ZnO nano phosphor. Journal of Sol-Gel Science and Technology, 2017, 81, 586-592.	1.1	23
17	Localized polymerization using single photon photoinitiators in two-photon process for fabricating subwavelength structures. Polymer, 2017, 117, 364-369.	1.8	21
18	Evaluation of techniques for the remediation of antibiotic-contaminated water using activated carbon. Molecular Systems Design and Engineering, 2020, 5, 743-756.	1.7	21

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19	Two-photon lithography of fluorescence-encoded quick-read micro-code for anti-counterfeiting applications. <i>JPhys Photonics</i> , 2021, 3, 034021.	2.2	19
20	3D Oxidized Graphene Frameworks for Efficient Nano Sieving. <i>Scientific Reports</i> , 2016, 6, 21150.	1.6	18
21	Modified PVA membrane for separation of micro-emulsion. <i>Science of the Total Environment</i> , 2022, 822, 153610.	3.9	18
22	Additive-Free All-Carbon Composite: A Two-Photon Material System for Nanopatterning of Fluorescent Sub-Wavelength Structures. <i>ACS Nano</i> , 2021, 15, 14193-14206.	7.3	17
23	Optical properties of stanene. <i>Nanotechnology</i> , 2016, 27, 495701.	1.3	16
24	Fully Solution-Processed ZnO Nanorod Array/PEDOT:PSS Heterojunction Photodetector for Ultraviolet Light. <i>IEEE Electron Device Letters</i> , 2022, 43, 260-263.	2.2	16
25	Plasmonic Micro Lens for Extraordinary Transmission of Broadband Light. <i>Scientific Reports</i> , 2014, 4, 5586.	1.6	15
26	Two-photon lithography of subwavelength plasmonic microstructures in metal-polymer composite resin. <i>Materials Letters</i> , 2021, 304, 130642.	1.3	15
27	Citrate - Nitrate route for the synthesis and characterization of TAG using sol-gel techniques. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 41, 245-248.	1.1	12
28	Sub-wavelength lithography of complex 2D and 3D nanostructures without two-photon dyes. <i>Additive Manufacturing</i> , 2017, 16, 30-34.	1.7	12
29	Graphene-Based Coronal Hybrids for Enhanced Energy Storage. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	12
30	Role of functionalized graphene quantum dots in hydrogen evolution reaction: A density functional theory study. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41748-41758.	3.8	12
31	Sol-gel preparation and optical characterization of Tb ³⁺ /Al ₂ O ₃ . <i>Materials Letters</i> , 2006, 60, 1315-1318.	1.3	11
32	Surface-Modified Nanoporous Membrane for Oil-Water Separation. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	11
33	3D Oxidized Graphene Frameworks: An Efficient Adsorbent for Methylene Blue. <i>Jom</i> , 2018, 70, 469-472.	0.9	9
34	Siloxene: A novel 2D photocatalyst for degradation of dye molecules. <i>Nano Structures Nano Objects</i> , 2021, 26, 100721.	1.9	9
35	β -Cyclodextrin functionalized rGO films for lead sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115323.	1.7	8
36	Water Purification using Graphene Covered Micro-porous, Reusable Carbon Membrane. <i>MRS Advances</i> , 2016, 1, 1411-1416.	0.5	7

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37	Predicting double negativity using transmitted phase in space coiling metamaterials. Royal Society Open Science, 2018, 5, 171042.	1.1	6
38	Quantification of Adsorption of Azo Dye Molecules on Graphene Oxide Using Optical Spectroscopy. Jom, 2017, 69, 236-240.	0.9	5
39	Optical properties of TAG co-doped with Ce and Eu. Bulletin of Materials Science, 2019, 42, 1.	0.8	5
40	H- and T-Li2O monolayers: Latest addition to 2D flatlands. Applied Surface Science, 2021, 556, 149737.	3.1	5
41	Spin filtering in oxidized zigzag graphene nanoribbons. Diamond and Related Materials, 2020, 102, 107662.	1.8	4
42	Nanodefects assisted removal of reactive dyes using biomass derived reduced 3D-OGFs. Journal of Cleaner Production, 2022, 362, 132257.	4.6	4
43	Surface enhanced Co-Mn double hydroxide coronal architectures for hybrid energy storage. Materials Letters, 2021, 296, 129904.	1.3	3
44	Quantum conductance in edge functionalized stanene nanoribbons: A first-principle study. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113595.	1.3	2
45	Core-shell \pm -Fe2O3-mixed phase TiO2 nanocubes as a highway for electron transport with efficient energy harvesting. Molecular Systems Design and Engineering, 2020, 5, 797-803.	1.7	2
46	Fabrication of Sub-wavelength Resolved Silver Acrylate Composite Microstructures. , 2021, , .		2
47	Synthesis of Oval Nitrogen Doped Carbon Quantum Dots by Microwave Assisted Pyrolysis. , 2020, , .		2
48	Introduction to Boron Nanostructures. , 2016, , 1-12.		1
49	Electronic Transport in Oxidized Zigzag Graphene Nanoribbons. MRS Advances, 2017, 2, 97-101.	0.5	1
50	Excitation dependence of the photoluminescence of ZnO: Tb nanophosphor. AIP Conference Proceedings, 2017, , .	0.3	1
51	Resolution-strength Interplay in Femtosecond Laser-Assisted Fabrication. , 2021, , .		1
52	Looking beyond single electron extraction in cathode materials for lithium ion batteries. Journal of Power Sources, 2015, 279, 563-566.	4.0	0
53	2d And 3d Acoustic Metamaterials Using Space Coil Design. Materials Research Society Symposia Proceedings, 2015, 1753, 49.	0.1	0
54	Synthesis of self-assembled large area films of complex hierarchical PZT clusters. Materials Research Express, 2016, 3, 025006.	0.8	0

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55	Theoretical and Computational Investigations of Carbon Nanostructures. Advances in Sustainability Science and Technology, 2021, , 139-164.	0.4	0
56	Femtosecond Laser Assisted Fabrication of Nanopatterned Fluorescent Quick Response Code for Anti-counterfeiting Application. , 2021, , .		0
57	Two-photon Lithography of Cloaked Fluorescent Microstructures for Anti-counterfeiting Applications. , 2021, , .		0