

Rajarshi Roy

List of Publications by Year in descending order

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29
papers

557
citations

686830

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docs citations

29
times ranked

1095
citing authors

#	ARTICLE	IF	CITATIONS
1	Amino-functionalized graphene quantum dots: origin of tunable heterogeneous photoluminescence. <i>Nanoscale</i> , 2014, 6, 3384.	2.8	237
2	Synthesis of SnS thin films via galvanostatic electrodeposition and fabrication of CdS/SnS heterostructure for photovoltaic applications. <i>Applied Surface Science</i> , 2010, 256, 4328-4333.	3.1	52
3	Realizing Direct Gap, Polytype, Group IIIA Delafossite: Ab Initio Forecast and Experimental Validation Considering Prototype CuAlO_2 . <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3539-3543.	2.1	24
4	sp ³ bonded 2-dimensional allotrope of carbon: A first-principles prediction. <i>Carbon</i> , 2019, 146, 430-437.	5.4	24
5	Edge effect enhanced electron field emission in top assembled reduced graphene oxide assisted by amorphous CNT-coated carbon cloth substrate. <i>AIP Advances</i> , 2013, 3, .	0.6	20
6	A scheme of simultaneous cationic-anionic substitution in CuCrO_2 for transparent and superior p-type transport. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 275109.	1.3	19
7	Exploring the Emission Pathways in Nitrogen-Doped Graphene Quantum Dots for Bioimaging. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21044-21054.	1.5	18
8	Boron vacancy: a strategy to boost the oxygen reduction reaction of hexagonal boron nitride nanosheet in hBN-MoS ₂ heterostructure. <i>Nanoscale Advances</i> , 2021, 3, 4739-4749.	2.2	17
9	Site specific nitrogen incorporation in reduced graphene oxide using imidazole as a novel reducing agent for efficient oxygen reduction reaction and improved supercapacitive performance. <i>Carbon</i> , 2020, 166, 361-373.	5.4	16
10	Observation of bright green luminescence in an Eu ²⁺ complexed graphene oxide composite through reduction of Eu ³⁺ . <i>New Journal of Chemistry</i> , 2015, 39, 4210-4213.	1.4	15
11	Role of oxygen functionality on the band structure evolution and conductance of reduced graphene oxide. <i>Chemical Physics Letters</i> , 2017, 677, 80-86.	1.2	15
12	Unique quasi-vertical alignment of RGO sheets under an applied non-uniform DC electric field for enhanced field emission. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7608-7613.	2.7	14
13	Local Field Enhancement-Induced Enriched Cathodoluminescence Behavior from CuI-RGO Nanophosphor Composite for Field-Emission Display Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25571-25577.	4.0	14
14	Raman Spectroscopic Observation of Gradual Polymorphic Transition and Phonon Modes in CuPc Nanorod. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6323-6328.	1.5	13
15	Curvature aided efficient axial field emission from carbon nanofiber-reduced graphene oxide superstructures on tungsten wire substrate. <i>Applied Surface Science</i> , 2016, 366, 448-454.	3.1	10
16	Negative capacitance in ZnO _{1-x} Ch _x (Ch = S, Se, Te): Role of localized charge recombination. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	10
17	Resonant energy transfer in a van der Waals stacked MoS ₂ functionalized graphene quantum dot composite with ab initio validation. <i>Nanoscale</i> , 2018, 10, 16822-16829.	2.8	10
18	Colossal magnetoresistance in amino-functionalized graphene quantum dots at room temperature: manifestation of weak anti-localization and doorway to spintronics. <i>Nanoscale</i> , 2016, 8, 8245-8254.	2.8	6

#	ARTICLE	IF	CITATIONS
19	Evidence of flexoelectricity in graphene nanobubbles created by tip induced electric field. Carbon, 2021, 179, 677-682.	5.4	6
20	Temperature-dependent site selection of boron doping in chemically derived graphene. Carbon, 2021, 184, 253-265.	5.4	5
21	Raman imaging and stress quantification in self-assembled graphene oxide fiber [®] Latin Letters [™] . Journal of Raman Spectroscopy, 2016, 47, 845-851.	1.2	3
22	Exploring the effect of hole localization on the charge-phonon dynamics of hole doped delafossite. Journal of Physics Condensed Matter, 2017, 29, 375701.	0.7	2
23	Enhanced photoconductance in ZnS [®] RGO-based nanocomposite under UV irradiation. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	2
24	Probing the charge transfer and electron-hole asymmetry in graphene-graphene quantum dot heterostructure. Nanotechnology, 2022, 33, 325704.	1.3	2
25	Chemically Derived Graphene Sheets Top Assembled Over Multi-Walled Carbon Nanotube Thin Film by Langmuir Blodgett Method for Improved Dual Field Emission. Journal of Nanoscience and Nanotechnology, 2013, 13, 452-460.	0.9	1
26	Relaxor-like dielectric response of spin liquid CuCrO ₂ . , 2014, , .		1
27	En route to the conductivity bottleneck in p-type CuCr _{1-x} MxO _{2-y} Sy (M = Li, Mg). AIP Conference Proceedings, 2017, , .	0.3	1
28	Experimental observation of valence band dispersion and increased hole conductivity in CuCr _{1-x} Li _x O _{2-y} Sy. Current Applied Physics, 2021, 25, 90-96.	1.1	0
29	Observation of polarization dependent excitonic luminescence in few-layered WS ₂ flakes. Chemical Physics Letters, 2021, 781, 139012.	1.2	0