

# Biswajit Das

## List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Novel Quaternary Chalcogenide/Reduced Graphene Oxide-Based Asymmetric Supercapacitor with High Energy Density. ACS Applied Materials & Interfaces, 2017, 9, 22652-22664.	8.0	69
2	Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> /Si-Nanowire-Based p-n Junction Diode for High-Performance Near-Infrared Photodetector. ACS Applied Materials & Interfaces, 2017, 9, 22788-22798.	8.0	66
3	Optical and thermoelectric properties of chalcogenide based Cu <sub>2</sub> NiSnS <sub>4</sub> nanoparticles synthesized by a novel hydrothermal route. Materials Letters, 2015, 152, 155-158.	2.6	47
4	Ag decorated topological surface state protected hierarchical Bi <sub>2</sub> Se <sub>3</sub> nanoflakes for enhanced field emission properties. Journal of Materials Chemistry C, 2015, 3, 1766-1775.	5.5	39
5	Morphology control and photoluminescence properties of Eu <sup>3+</sup> -activated Y <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> nanophosphors for solid state lighting applications. CrystEngComm, 2018, 20, 2540-2552.	2.6	29
6	Tailored mesoporous nanocrystalline Ga <sub>2</sub> O <sub>3</sub> for dye-selective photocatalytic degradation. Microporous and Mesoporous Materials, 2019, 288, 109600.	4.4	29
7	NIR photodetector based on p-silicon nanowires/n-cadmium sulfide nanoscale junctions. Applied Surface Science, 2021, 548, 149256.	6.1	28
8	MoSe <sub>2</sub> -Amorphous CNT Hierarchical Hybrid Core-Shell Structure for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 5067-5076.	5.1	24
9	Amorphous Carbon Nanotubes-Nickel Oxide Nanoflower Hybrids: A Low Cost Energy Storage Material. ACS Omega, 2018, 3, 6311-6320.	3.5	22
10	Flower-like Cu <sub>2</sub> NiSnS <sub>4</sub> microspheres for application as electrodes of asymmetric supercapacitors endowed with high energy density. CrystEngComm, 2018, 20, 1443-1454.	2.6	20
11	rGO-Wrapped flowerlike Bi <sub>2</sub> Se <sub>3</sub> nanocomposite: synthesis, experimental and simulation-based investigation on cold cathode applications. RSC Advances, 2016, 6, 25900-25912.	3.6	17
12	Flexible, transparent resistive switching device based on topological insulator Bi <sub>2</sub> Se <sub>3</sub> -organic composite. Journal of Applied Physics, 2018, 124, .	2.5	16
13	Novel Ag <sub>2</sub> O-Ga <sub>2</sub> O <sub>3</sub> type II p-n heterojunction as an efficient water cleanser for green cleaning technology. Applied Surface Science, 2020, 515, 145958.	6.1	14
14	Copper (II) Phthalocyanine (CuPc) Based Optoelectronic Memory Device with Multilevel Resistive Switching for Neuromorphic Application. Advanced Electronic Materials, 2021, 7, 2001079.	5.1	14
15	Resistive Switching in a MoSe <sub>2</sub> -Based Memory Device Investigated Using Conductance Noise Spectroscopy. ACS Applied Electronic Materials, 2021, 3, 3096-3105.	4.3	14
16	Facile synthesis of ZnPc nanoflakes for cold cathode emission. RSC Advances, 2016, 6, 42739-42744.	3.6	13
17	RGO enveloped vertically aligned Co <sub>3</sub> O <sub>4</sub> nanowires on carbon fabric: a highly efficient prototype for flexible field emitter arrays. RSC Advances, 2016, 6, 91860-91869.	3.6	11
18	Chemically activated growth of CuO nanostructures for flexible cold cathode emission. CrystEngComm, 2016, 18, 3389-3398.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Review of recent progress on THz spectroscopy of quantum materials: superconductors, magnetic and topological materials. European Physical Journal: Special Topics, 2021, 230, 4113-4139.	2.6	9
20	Nonlinear Coherent Light-Matter Interaction in 2D MoSe <sub>2</sub> Nanoflakes for All-Optical Switching and Logic Applications. Advanced Optical Materials, 2022, 10, .	7.3	9
21	Hexagonal nickel selenide nanoflakes decorated carbon fabric: An efficient binder-free water loving electrode for electrochemical water splitting. Solid State Sciences, 2021, 116, 106613.	3.2	7
22	Enhanced electrocatalytic oxygen reduction reaction from organic-inorganic heterostructure. International Journal of Hydrogen Energy, 2022, 47, 6710-6720.	7.1	7
23	Radon induced health effects: A survey report. Indian Journal of Science and Technology, 2021, 14, 481-507.	0.7	5
24	Enhanced field emission properties of rGO wrapped Ga <sub>2</sub> O <sub>3</sub> micro/nanobricks: Experimental investigation with theoretical validation. Journal of Alloys and Compounds, 2022, 902, 163726.	5.5	3
25	RADIOLOGICAL IMPACT OF SOME COMMON FOODS OF SOUTHERN PART OF WEST BENGAL, INDIA. Radiation Protection Dosimetry, 2018, 179, 169-178.	0.8	2
26	Facile preparation of porous Ga <sub>2</sub> O <sub>3</sub> nano/microbars for highly efficient photocatalytic degradation. AIP Conference Proceedings, 2020, , .	0.4	2
27	Scenario of radon alpha activity level in natural drinking waters of different regions of eastern part of India: A review report. Indian Journal of Science and Technology, 2021, 14, 1189-1204.	0.7	1
28	Theoretical evaluation of calibration factor for CR-39 track detector for alpha radioactivity measurement in natural water. Radiation Physics and Chemistry, 2021, 185, 109511.	2.8	1
29	Catalyst free VLS deposition of Cu <sub>2</sub> Se <sub>1-x</sub> film for cold cathode application and its theoretical verification. AIP Conference Proceedings, 2016, , .	0.4	0
30	BaSnO <sub>3</sub> nanoparticles as blue emitting phosphor and efficient photocatalyst. AIP Conference Proceedings, 2020, , .	0.4	0