Bikram Kumar Das

List of Publications by Year
in descending order

24 papers	517 citations	687363 13 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	594 citing authors

#	Article	IF	Citations
1	Copper and nickel decorated g-C3N4 as superior catalysts for reduction of toxic pollutants: A combined experimental and theoretical approach. Applied Surface Science, 2022, 580, 152137.	6.1	10
2	Enhanced field emission properties of rGO wrapped Ga2O3 micro/nanobricks: Experimental investigation with theoretical validation. Journal of Alloys and Compounds, 2022, 902, 163726.	5.5	3
3	Mechanism of Oxygen Reduction Reaction in Alkaline Medium on Nitrogenâ€Doped Graphyne and Graphdiyne Families: A First Principles Study. ChemPhysChem, 2022, 23, e202100900.	2.1	2
4	Significant enhancement of lattice thermal conductivity of monolayer AlN under bi-axial strain: a first principles study. Physical Chemistry Chemical Physics, 2022, 24, 16065-16074.	2.8	5
5	Probing the emission dynamics in nitrogen-doped carbon dots by reversible capping with mercury(<scp>ii</scp>) through surface chemistry. New Journal of Chemistry, 2022, 46, 14690-14702.	2.8	2
6	Enhanced electron emission from ternary solid solution-MWCNT hybrid with theoretical validation. Materials Science in Semiconductor Processing, 2021, 127, 105674.	4.0	1
7	Electrochemical Performance of 3D Network CsPbBr₃ Perovskite Anodes for Li-Ion Batteries: Experimental Venture with Theoretical Expedition. Journal of Physical Chemistry C, 2021, 125, 16892-16902.	3.1	18
8	Temperature-dependent site selection of boron doping in chemically derived graphene. Carbon, 2021, 184, 253-265.	10.3	5
9	Strain-induced partial phase transition in TiO2 nanoparticles manifesting frequency dispersive pseudo-inductive switching of capacitance. Ceramics International, 2020, 46, 20437-20447.	4.8	9
10	Human motion interactive mechanical energy harvester based on all inorganic perovskite-PVDF. Nano Energy, 2020, 74, 104870.	16.0	85
11	Yellow emitting Fe3O4/ZnS hybrid: A probe for in-vitro dermatoglyphics and anti-counterfeiting applications. Materials Research Bulletin, 2020, 131, 110966.	5.2	7
12	Novel Ag2O-Ga2O3 type II p-n heterojunction as an efficient water cleanser for green cleaning technology. Applied Surface Science, 2020, 515, 145958.	6.1	14
13	V doped BaSnO3 nanocubes as a field emitting material: Experimental and theoretical investigation. Applied Surface Science, 2020, 530, 147102.	6.1	4
14	Size and phase dependent thermal conductivity of TiO2-water nanofluid with theoretical insight. Journal of Molecular Liquids, 2020, 302, 112499.	4.9	14
15	Hollow micro-spherical bismuth oxy-chloride for superior visible light induced dye-sensitized photocatalytic activity and its theoretical insight. Materials Research Bulletin, 2020, 125, 110778.	5.2	14
16	MoSe₂-Amorphous CNT Hierarchical Hybrid Coreâ€“Shell Structure for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 5067-5076.	5.1	24
17	Site specific nitrogen incorporation in reduced graphene oxide using imidazole as a novel reducing agent for efficient oxygen reduction reaction and improved supercapacitive performance. Carbon, 2020, 166, 361-373.	10.3	16
18	Tailored CsPbX₃ Nanorods for Electron-Emission Nanodevices. ACS Applied Nano Materials, 2019, 2, 5942-5951.	5.0	24

#	Article	IF	Citations
19	CsPbBrCl2/g-C3N4 type II heterojunction as efficient visible range photocatalyst. Journal of Hazardous Materials, 2019, 380, 120855.	12.4	124
20	sp3 bonded 2-dimensional allotrope of carbon: A first-principles prediction. Carbon, 2019, 146, 430-437.	10.3	24
21	Band edge tuned Zn_xCd_{1â^'x}S solid solution nanopowders for efficient solar photocatalysis. Physical Chemistry Chemical Physics, 2017, 19, 29998-30009.	2.8	16
22	Perovskites beyond photovoltaics: field emission from morphology-tailored nanostructured methylammonium lead triiodide. Physical Chemistry Chemical Physics, 2017, 19, 26708-26717.	2.8	10
23	Nitrogen doping in acetylene bonded two dimensional carbon crystals: Ab-initio forecast of electrocatalytic activities vis-Ã-vis boron doping. Carbon, 2016, 105, 330-339.	10.3	27
24	Implications of boron doping on electrocatalytic activities of graphyne and graphdiyne families: a first principles study. Physical Chemistry Chemical Physics, 2016, 18, 2949-2958.	2.8	59