Chandan Bera

List of Publications by Year
in descending order

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50	1,198	430874	395702
papers	citations	18	33
		h-index	g-index

50	50	50	1353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoinduced high thermoelectric power factor in strontium titanate. Physica B: Condensed Matter, 2022, 627, 413552.	2.7	2
2	Interfacial interaction induced OER activity of MOF derived superhydrophilic Co₃O₄â€“NiO hybrid nanostructures. Dalton Transactions, 2022, 51, 2019-2025.	3.3	8
3	Super-Hydrophilic Leaflike Sn₄P₃ on the Porous Seamless Grapheneâ€“Carbon Nanotube Heterostructure as an Efficient Electrocatalyst for Solar-Driven Overall Water Splitting. ACS Nano, 2022, 16, 4861-4875.	14.6	41
4	Recent developments in biomass derived cellulose aerogel materials for thermal insulation application: a review. Cellulose, 2022, 29, 4805-4833.	4.9	39
5	Nanochannel Mediated Electrical and Photoconductivity of Metal Organic Nanotubes. ACS Sustainable Chemistry and Engineering, 2022, 10, 6981-6987.	6.7	4
6	Rashba spin splitting in two-dimensional electron gas in polar-polar perovskite oxide heterostructure LaVO3/KTaO3: A DFT investigation. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115394.	2.7	4
7	Ultrathin MoS₂ wrapped N-doped carbon-coated cobalt nanospheres for OER applications. Sustainable Energy and Fuels, 2021, 5, 801-807.	4.9	16
8	Super-Hydrophilic Hierarchical Ni-Foam-Graphene-Carbon Nanotubes-Ni₂Pâ€“CuP₂ Nano-Architecture as Efficient Electrocatalyst for Overall Water Splitting. ACS Nano, 2021, 15, 5586-5599.	14.6	216
9	B-Site Stoichiometry Control of the Magnetotransport Properties of Epitaxial Sr2FeMoO6 Thin Film. ACS Applied Electronic Materials, 2021, 3, 597-604.	4.3	5
10	Anisotropic magnetoresistance and planar Hall effect in (001) and (111) LaVO3/SrTiO3 heterostructures. Physical Review B, 2021, 103, .	3.2	14
11	Photoconductivity of the EuOâ€“KTO Interface: Effect of Intrinsic Carrier Density and Temperature. Journal of Physical Chemistry C, 2021, 125, 15510-15515.	3.1	10
12	High thermoelectric figure of merit predicted in Cu26V2Sn6Se32 colusite induced by vacancy defects and glassy-like vibrational modes. Journal of Applied Physics, 2021, 130, 065106.	2.5	2
13	Thermoelectric properties of the SnS monolayer: Fully ab initio and accelerated calculations. Journal of Applied Physics, 2021, 130, .	2.5	15
14	A review of the recent progress on thermal conductivity of nanofluid. Journal of Molecular Liquids, 2021, 338, 116929.	4.9	70
15	Theoretical prediction of thermoelectric properties of n-type binary Zintl compounds (KSb and KBi). Physica B: Condensed Matter, 2021, 619, 413206.	2.7	9
16	Intense nano-interfacial interactivity stimulates the OER in a MOF-derived superhydrophilic CuOâ€“NiO heterostructure. Sustainable Energy and Fuels, 2021, 5, 5505-5512.	4.9	9
17	Designing an efficient bifunctional electrocatalyst heterostructure. Chemical Communications, 2021, 57, 9426-9429.	4.1	8
18	Large piezoelectric and thermal expansion coefficients with negative Poisson's ratio in strain-modulated tellurene. Nanoscale Advances, 2021, 3, 3279-3287.	4.6	7

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19	Unraveling a Graphene Exfoliation Technique Analogy in the Making of Ultrathin Nickelâ€“Iron Oxyhydroxides@Nickel Foam to Promote the OER. ACS Applied Materials & Interfaces, 2021, 13, 55281-55291.	8.0	24
20	Multiple helimagnetic phases in triclinic CuSeO3. Journal of Magnetism and Magnetic Materials, 2020, 497, 165945.	2.3	1
21	Mechanistic insights into surface contribution towards heat transfer in a nanofluid. Nanoscale Advances, 2020, 2, 3507-3513.	4.6	13
22	First principle study of magnetic properties of layered ternary chalcogenide CoAsS. AIP Conference Proceedings, 2020, , .	0.4	0
23	Tuning the electronic properties of 2DEG at oxide interface. AIP Conference Proceedings, 2020, , .	0.4	1
24	The Effect of Janus Asymmetry on Thermal Transport in SnSSe. Journal of Physical Chemistry C, 2020, 124, 17476-17484.	3.1	30
25	Theoretical model for predicting thermoelectric properties of tin chalcogenides. Physical Chemistry Chemical Physics, 2020, 22, 18989-19008.	2.8	26
26	Strong Interactions between the Nanointerfaces of Silica-Supported Mo₂C/MoP Heterojunction Promote Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 57898-57906.	8.0	16
27	Persistent photoconductivity at LaVO3â€“SrTiO3 interface. Solid State Communications, 2020, 316-317, 113930.	1.9	12
28	In situ modulation of silica-supported MoO₂/Mo₂C heterojunction for enhanced hydrogen evolution reaction. Catalysis Science and Technology, 2020, 10, 4776-4785.	4.1	9
29	Promoting Electrocatalytic Oxygen Reduction in a Model Composite Using Selective Metal Ions. ACS Applied Energy Materials, 2020, 3, 3645-3652.	5.1	6
30	Probing into the effect of heterojunctions between Cu/Mo2C/Mo2N on HER performance. Catalysis Science and Technology, 2020, 10, 2213-2220.	4.1	17
31	Spin-orbit coupling effect on the thermopower and power factor of CoSbS. Physical Review B, 2020, 101, .	3.2	6
32	Effect of nanoinclusions on the lattice thermal conductivity of SnSe. Nano Express, 2020, 1, 030035.	2.4	4
33	Anisotropy in dielectric properties of polyvinylidene fluoride. AIP Conference Proceedings, 2020, , .	0.4	2
34	Thermoelectric figure of merit and thermal conductivity of type-I clathrate alloy nanowires. MRS Communications, 2019, 9, 370-374.	1.8	9
35	Role of nanoparticle interaction in magnetic heating. MRS Communications, 2019, 9, 1034-1040.	1.8	4
36	New approach for the transformation of metallic waste into nanostructured Fe3O4 and SnO2-Fe3O4 heterostructure and their application in treatment of organic pollutant. Waste Management, 2019, 87, 719-730.	7.4	19

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37	A theoretical model of the thermoelectric properties of SnSxSe1â^'x and how to further enhance its thermoelectric performance. Journal of Applied Physics, 2019, 126, .	2.5	24
38	High anisotropic thermoelectric effect in palladium phosphide sulphide. Physica Status Solidi (B): Basic Research, 2017, 254, .	1.5	9
39	Effect of alloying on thermal conductivity and thermoelectric properties of CoAsS and CoSbS. Physical Chemistry Chemical Physics, 2017, 19, 24928-24933.	2.8	19
40	Electronic structure modification of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>KTaO</mml:mi><mml:mn>3</mml:mn></mml:msub></m surface by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ar</mml:mi></mml:mrow><mml:mo>+</mm Physical Review B, 2017, 96, .	3.2	25
41	The mechanism of nanoparticle-mediated enhanced energy transfer during high-intensity focused ultrasound sonication. Physical Chemistry Chemical Physics, 2017, 19, 19075-19082.	2.8	20
42	Visibleâ€Lightâ€Driven Photoelectrochemical and Photocatalytic Performance of NaNbO₃/Ag₂S Coreâ€“Shell Heterostructures. ChemSusChem, 2016, 9, 1850-1858.	6.8	35
43	Calculating the thermal conductivity of the silicon clathrates using the quasiâ€harmonic approximation. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 802-807.	1.8	45
44	Theoretical and experimental investigations of the thermoelectric properties of Bi2S3. Journal of Applied Physics, 2015, 117, .	2.5	55
45	Integrated computational materials discovery of silver doped tin sulfide as a thermoelectric material. Physical Chemistry Chemical Physics, 2014, 16, 19894-19899.	2.8	61
46	Monte Carlo simulation of thermal conductivity of Si nanowire: An investigation on the phonon confinement effect on the thermal transport. Journal of Applied Physics, 2012, 112, 074323.	2.5	17
47	Blocking phonons via nanoscale geometrical design. Physical Review B, 2010, 82, .	3.2	48
48	Thermoelectric properties of nanostructured Si1â^'xGex and potential for further improvement. Journal of Applied Physics, 2010, 108, 124306.	2.5	76
49	Marked Effects of Alloying on the Thermal Conductivity of Nanoporous Materials. Physical Review Letters, 2010, 104, 115502.	7.8	86
50	Revisiting the Thermal Conductivity of Nanoporous Materials. , 2009, , .		0