# Chandan Bera

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4897753/publications.pdf

Version: 2024-02-01

| 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 | Super-Hydrophilic Hierarchical Ni-Foam-Graphene-Carbon Nanotubes-Ni<sub>2</sub>Pâ€“CuP<sub>2</sub> Nano-Architecture as Efficient Electrocatalyst for Overall Water Splitting. ACS Nano, 2021, 15, 5586-5599. | 14.6 | 216 |
| 2 | Marked Effects of Alloying on the Thermal Conductivity of Nanoporous Materials. Physical Review Letters, 2010, 104, 115502. | 7.8 | 86 |
| 3 | Thermoelectric properties of nanostructured Si1âˆ’xGex and potential for further improvement. Journal of Applied Physics, 2010, 108, 124306. | 2.5 | 76 |
| 4 | A review of the recent progress on thermal conductivity of nanofluid. Journal of Molecular Liquids, 2021, 338, 116929. | 4.9 | 70 |
| 5 | Integrated computational materials discovery of silver doped tin sulfide as a thermoelectric material. Physical Chemistry Chemical Physics, 2014, 16, 19894-19899. | 2.8 | 61 |
| 6 | Theoretical and experimental investigations of the thermoelectric properties of Bi2S3. Journal of Applied Physics, 2015, 117, . | 2.5 | 55 |
| 7 | Blocking phonons via nanoscale geometrical design. Physical Review B, 2010, 82, . | 3.2 | 48 |
| 8 | 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 |
| 9 | Super-Hydrophilic Leaflike Sn<sub>4</sub>P<sub>3</sub> 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 |
| 10 | Recent developments in biomass derived cellulose aerogel materials for thermal insulation application: a review. Cellulose, 2022, 29, 4805-4833. | 4.9 | 39 |
| 11 | Visibleâ€Lightâ€Driven Photoelectrochemical and Photocatalytic Performance of NaNbO<sub>3</sub>/Ag<sub>2</sub>S Coreâ€“Shell Heterostructures. ChemSusChem, 2016, 9, 1850-1858. | 6.8 | 35 |
| 12 | The Effect of Janus Asymmetry on Thermal Transport in SnSSe. Journal of Physical Chemistry C, 2020, 124, 17476-17484. | 3.1 | 30 |
| 13 | Theoretical model for predicting thermoelectric properties of tin chalcogenides. Physical Chemistry Chemical Physics, 2020, 22, 18989-19008. | 2.8 | 26 |
| 14 | 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 |
| 15 | A theoretical model of the thermoelectric properties of SnSxSe1âˆ’x and how to further enhance its thermoelectric performance. Journal of Applied Physics, 2019, 126, . | 2.5 | 24 |
| 16 | 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 |
| 17 | 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 |
| 18 | Effect of alloying on thermal conductivity and thermoelectric properties of CoAsS and CoSbS. Physical Chemistry Chemical Physics, 2017, 19, 24928-24933. | 2.8 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | Probing into the effect of heterojunctions between Cu/Mo2C/Mo2N on HER performance. Catalysis Science and Technology, 2020, 10, 2213-2220. | 4.1 | 17 |
| 22 | Strong Interactions between the Nanointerfaces of Silica-Supported Mo<sub>2</sub>C/MoP Heterojunction Promote Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 57898-57906. | 8.0 | 16 |
| 23 | Ultrathin MoS<sub>2</sub> wrapped N-doped carbon-coated cobalt nanospheres for OER applications. Sustainable Energy and Fuels, 2021, 5, 801-807. | 4.9 | 16 |
| 24 | Thermoelectric properties of the SnS monolayer: Fully ab initio and accelerated calculations. Journal of Applied Physics, 2021, 130, . | 2.5 | 15 |
| 25 | Anisotropic magnetoresistance and planar Hall effect in (001) and (111) LaVO3/SrTiO3 heterostructures. Physical Review B, 2021, 103, . | 3.2 | 14 |
| 26 | Mechanistic insights into surface contribution towards heat transfer in a nanofluid. Nanoscale Advances, 2020, 2, 3507-3513. | 4.6 | 13 |
| 27 | Persistent photoconductivity at LaVO3â€“SrTiO3 interface. Solid State Communications, 2020, 316-317, 113930. | 1.9 | 12 |
| 28 | 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 |
| 29 | High anisotropic thermoelectric effect in palladium phosphide sulphide. Physica Status Solidi (B): Basic Research, 2017, 254, . | 1.5 | 9 |
| 30 | Thermoelectric figure of merit and thermal conductivity of type-I clathrate alloy nanowires. MRS Communications, 2019, 9, 370-374. | 1.8 | 9 |
| 31 | In situ modulation of silica-supported MoO<sub>2</sub>/Mo<sub>2</sub>C heterojunction for enhanced hydrogen evolution reaction. Catalysis Science and Technology, 2020, 10, 4776-4785. | 4.1 | 9 |
| 32 | Theoretical prediction of thermoelectric properties of n-type binary Zintl compounds (KSb and KBi). Physica B: Condensed Matter, 2021, 619, 413206. | 2.7 | 9 |
| 33 | 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 |
| 34 | Designing an efficient bifunctional electrocatalyst heterostructure. Chemical Communications, 2021, 57, 9426-9429. | 4.1 | 8 |
| 35 | Interfacial interaction induced OER activity of MOF derived superhydrophilic Co<sub>3</sub>O<sub>4</sub>â€“NiO hybrid nanostructures. Dalton Transactions, 2022, 51, 2019-2025. | 3.3 | 8 |
| 36 | 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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|---|---|---|---|
| 37 | Promoting Electrocatalytic Oxygen Reduction in a Model Composite Using Selective Metal Ions. ACS Applied Energy Materials, 2020, 3, 3645-3652. | 5.1 | 6 |
| 38 | Spin-orbit coupling effect on the thermopower and power factor of CoSbS. Physical Review B, 2020, 101, . | 3.2 | 6 |
| 39 | B-Site Stoichiometry Control of the Magnetotransport Properties of Epitaxial Sr2FeMoO6 Thin Film. ACS Applied Electronic Materials, 2021, 3, 597-604. | 4.3 | 5 |
| 40 | Role of nanoparticle interaction in magnetic heating. MRS Communications, 2019, 9, 1034-1040. | 1.8 | 4 |
| 41 | Effect of nanoinclusions on the lattice thermal conductivity of SnSe. Nano Express, 2020, 1, 030035. | 2.4 | 4 |
| 42 | Nanochannel Mediated Electrical and Photoconductivity of Metal Organic Nanotubes. ACS Sustainable Chemistry and Engineering, 2022, 10, 6981-6987. | 6.7 | 4 |
| 43 | 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 |
| 44 | 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 |
| 45 | Anisotropy in dielectric properties of polyvinylidene fluoride. AIP Conference Proceedings, 2020, , . | 0.4 | 2 |
| 46 | Photoinduced high thermoelectric power factor in strontium titanate. Physica B: Condensed Matter, 2022, 627, 413552. | 2.7 | 2 |
| 47 | Multiple helimagnetic phases in triclinic CuSeO3. Journal of Magnetism and Magnetic Materials, 2020, 497, 165945. | 2.3 | 1 |
| 48 | Tuning the electronic properties of 2DEG at oxide interface. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 49 | Revisiting the Thermal Conductivity of Nanoporous Materials. , 2009, , . | | 0 |
| 50 | First principle study of magnetic properties of layered ternary chalcogenide CoAsS. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |