Satadeep Bhattacharjee

List of Publications by Year
in descending order

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		623734	434195
45	966	14	31
papers	citations	h-index	g-index

45	45	45	1529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering Multiferroism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 117602.	7.8	183
2	An improved d-band model of the catalytic activity of magnetic transition metal surfaces. Scientific Reports, 2016, 6, 35916.	3.3	164
3	Atomistic Spin Dynamic Method with both Damping and Moment of Inertia Effects Included from First Principles. Physical Review Letters, 2012, 108, 057204.	7.8	92
4	Silicon-doped icosahedral, cuboctahedral, and decahedral clusters of aluminum. Physical Review B, 2000, 61, 8541-8547.	3.2	80
5	Organic-inorganic hybrid PtCo nanoparticle with high electrocatalytic activity and durability for oxygen reduction. NPG Asia Materials, 2016, 8, e237-e237.	7.9	57
6	Highly active and durable nitrogen doped-reduced graphene oxide/double perovskite bifunctional hybrid catalysts. Journal of Materials Chemistry A, 2017, 5, 13019-13031.	10.3	45
7	Ultrafast Switching of the Electric Polarization and Magnetic Chirality in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BiFeO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> an Electric Field. Physical Review Letters, 2014, 112, 147601.	7.8	44
8	Robust NdBa0.5Sr0.5Co1.5Fe0.5O5+Î´ cathode material and its degradation prevention operating logic for intermediate temperature-solid oxide fuel cells. Journal of Power Sources, 2016, 331, 495-506.	7.8	37
9	Electronic structure of Co-phthalocyanine calculated by GGA+U and hybrid functional methods. Chemical Physics, 2010, 377, 96-99.	1.9	22
10	Grasping periodic trend and rate-determining step for S-modified metals of metal sulfides deployable to produce OH via H2O2 cleavage. Applied Catalysis B: Environmental, 2019, 253, 60-68.	20.2	22
11	Atomic disorder and Berry phase driven anomalous Hall effect in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Heusler compound. Physical Review B, 2022, 105, .	3.2	19
12	NH3 adsorption on PtM (Fe, Co, Ni) surfaces: Cooperating effects of charge transfer, magnetic ordering and lattice strain. Chemical Physics Letters, 2016, 648, 166-169.	2.6	17
13	First-principles study of the dielectric and dynamical properties of orthorhombic CaMnO3. Journal of Physics Condensed Matter, 2008, 20, 255229.	1.8	16
14	PASTA: Python Algorithms for Searching Transition stAtes. Computer Physics Communications, 2018, 233, 261-268.	7.5	15
15	Controlling Oxygen-Based Electrochemical Reactions through Spin Orientation. Journal of Physical Chemistry C, 2018, 122, 894-901.	3.1	14
16	Prediction of novel interface-driven spintronic effects. Journal of Physics Condensed Matter, 2014, 26, 315008.	1.8	13
17	Spin polarized carrier injection into high-Tcsuperconductors: A test for the superconductivity mechanism. Physical Review B, 2000, 62, R6139-R6142.	3.2	9
18	Probing Photoexcited Charge Carrier Trapping and Defect Formation in Synergistic Doping of SrTiO₃. ACS Applied Energy Materials, 2022, 5, 1159-1168.	5.1	9

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19	Adsorption energy scaling relation on bimetallic magnetic surfaces: role of surface magnetic moments. Physical Chemistry Chemical Physics, 2020, 22, 17960-17968.	2.8	8
20	AMMCR: Ab initio model for mobility and conductivity calculation by using Rode Algorithm. Computer Physics Communications, 2021, 259, 107697.	7.5	8
21	MatScIE: An automated tool for the generation of databases of methods and parameters used in the computational materials science literature. Computational Materials Science, 2021, 192, 110325.	3.0	8
22	Silicene: an excellent material for flexible electronics. Journal Physics D: Applied Physics, 2022, 55, 425301.	2.8	8
23	Tuning the Lattice Thermal Conductivity in Bismuth Telluride via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Cr</mml:mi></mml:math> Alloying. Physical Review Applied, 2021, 15, .	3.8	7
24	Theoretical Analysis of Inertia-like Switching in Magnets: Applications to a Synthetic Antiferromagnet. Physical Review X, 2012, 2, .	8.9	6
25	Functionalization of edge reconstructed graphene nanoribbons by H and Fe: A density functional study. Solid State Communications, 2012, 152, 1719-1724.	1.9	6
26	Role of zero-point effects in stabilizing the ground state structure of bulk Fe₂P. Journal of Physics Condensed Matter, 2018, 30, 215401.	1.8	6
27	First principles calculations of magnetism, dielectric properties and spinâ€“phonon coupling in double perovskite Bi2CoMnO6. Journal of Physics Condensed Matter, 2012, 24, 295901.	1.8	5
28	Galliumâ€“Boronâ€“Phosphide ($$hbox {GaBP}_{2}$$): a new IIIâ€“V semiconductor for photovoltaics. Journal of Materials Science, 2020, 55, 9448-9460.	3.7	5
29	Identifying the Critical Surface Descriptors for the Negative Slopes in the Adsorption Energy Scaling Relationships via Density Functional Theory and Compressed Sensing. Journal of Physical Chemistry Letters, 2021, 12, 9791-9799.	4.6	5
30	Electrical and magneto-transport in the 2D semiconducting MXene Ti₂CO₂. Journal of Materials Chemistry C, 2022, 10, 9062-9072.	5.5	5
31	Novel magnetic arrangement and structural phase transition induced by spinâ€“lattice coupling in multiferroics. MRS Communications, 2013, 3, 213-218.	1.8	4
32	Ab initio semi-classical electronic transport in ZnSe: the role of inelastic scattering mechanisms. Journal of Physics Condensed Matter, 2019, 31, 345901.	1.8	4
33	Van der Waals hetero-structures of 1H-MoS₂ and N-substituted graphene for catalysis of hydrogen evolution reaction. Materials Research Express, 2019, 6, 124006.	1.6	4
34	Scaling of transition temperature and CuO2 plane buckling in the cuprate superconductors. Physica C: Superconductivity and Its Applications, 2001, 349, 89-94.	1.2	3
35	Cooperation and competition between magnetism and chemisorption. Physical Chemistry Chemical Physics, 2021, 23, 3802-3809.	2.8	3
36	Population analysis with Wannier orbitals. Journal of Chemical Physics, 2021, 154, 104111.	3.0	3

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37	Inducing half metallicity with alloying in Heusler Compound CoFeMnSb. Journal of Physics Condensed Matter, 2019, 31, 335702.	1.8	2
38	Transition metal substituted Fe₂P: potential candidate for MRAM application. Journal of Physics Condensed Matter, 2020, 32, 195804.	1.8	2
39	Semi-classical electronic transport properties of ternary compound AlGaAs2: role of different scattering mechanisms. Journal of Physics Condensed Matter, 2020, 32, 135704.	1.8	2
40	CINEMAS: Comprehensively INtegrated Environment for advanced MAterials Simulations. Computational Materials Science, 2021, 188, 110238.	3.0	2
41	Pressure induced isostructural phase transition in biskyrmion host hexagonal MnNiGa. Physica Status Solidi - Rapid Research Letters, 0, , .	2.4	2
42	Temperature-dependent quasiparticle band structure of an antiferromagnetic two-layer EuTe film. Physica B: Condensed Matter, 2003, 336, 379-386.	2.7	0
43	Evidence of ferromagnetic ground state and strong spin phonon coupling in Zr₂TiAl with bi-axial strain: first principles study. Journal of Physics Communications, 2019, 3, 055010.	1.2	0
44	Comprehensive Studies on Steady-State and Transient Electronic Transport in In0.52Al0.48As. Journal of Electronic Materials, 2021, 50, 3819-3835.	2.2	0
45	Electronic Structure of Double Perovskite Lu₂CoMnO₆. Advanced Science Letters, 2015, 21, 2875-2878.	0.2	0