Subhradip Ghosh

List of Publications by Year
in descending order

35	668	623734	580821
papers	citations	14 h-index	25 g-index

35	35	35	632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical investigation of capacitances in functionalised MXene supercapacitors M_{n+1}C_nO₂, Mâ€‰=â€‰Ti, V, Nb, Mo. Journal Physics D: Applied Physics, 2022, 55, 085502.	3.4	6
2	Effects of composition variation and site disorder on the magnetic interactions in Ru2Fe(Si1-Ge) alloys. Journal of Magnetism and Magnetic Materials, 2022, 546, 168913.	2.3	0
3	Experimental and theoretical study of europium-doped organometal halide perovskite nanoplatelets for UV photodetection with high responsivity and fast response. Nanoscale, 2022, 14, 6402-6416.	5.6	8
4	Giant magnetocaloric effect driven by first-order magnetostructural transition in cosubstituted Ni-Mn-Sb Heusler compounds: Predictions fromab initioand Monte Carlo calculations. Physical Review B, 2021, 103, .	3.2	11
5	Spontaneous three-dimensional self-assembly of MXene and graphene for impressive energy and rate performance pseudocapacitors. Electrochimica Acta, 2021, 391, 138959.	5.2	37
6	Understanding the interfacial charge transfer in the CVD grown Bi₂O₂Se/CsPbBr₃ nanocrystal heterostructure and its exploitation in superior photodetection: experiment vs. theory. Nanoscale, 2021, 13, 14945-14959.	5.6	28
7	Graphene aided gelation of MXene with oxidation protected surface for supercapacitor electrodes with excellent gravimetric performance. Carbon, 2020, 169, 225-234.	10.3	73
8	Phonons in magnetically disordered materials: Magnetic versus phononic time scales. Physical Review B, 2020, 101, .	3.2	8
9	Understanding the origin of the magnetocaloric effects in substitutional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>Ni-Mn-Sb-</mml:mtext><mml:mi>Z</mml:mi><mml:mo /><mml:mo>(</mml:mo><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mi>Fe</mml:mi><mml:mo>,</mml:mo><mml:mi>Co</mml:mi><mml:mn compounds: Insights from first-principles calculations. Physical Review B, 2020, 101, .	3.2	14
10	Cosubstitution in Ni-Mn-Sb Heusler compounds: Realization of room-temperature reversible magnetocaloric effect driven by second-order magnetic transition. Physical Review Materials, 2020, 4, .	2.4	5
11	Site dependent substitution and half-metallic behaviour in Heusler compounds: A case study for Mn2RhSi, Co2RhSi and CoRhMnSi. Computational Condensed Matter, 2019, 21, e00423.	2.1	3
12	Systematic understanding of half-metallicity of ternary compounds in Heusler and Inverse Heusler structures with 3d and 4d elements. Physica Scripta, 2019, 94, 125001.	2.5	17
13	Halfâ€Metallicity in Quaternary Heusler Alloys with 3d and 4d Elements: Observations and Insights from DFT Calculations. Physica Status Solidi (B): Basic Research, 2019, 256, 1900039.	1.5	9
14	Role of composition, site ordering, and magnetic structure for the structural stability of off-stoichiometric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:r alloys with excess Ni and Mn. Physical Review B, 2019, 99, .	3.2	20
15	Site occupancy, composition and magnetic structure dependencies of martensitic transformation in Mn2Ni1 +xSn1â^'x. Journal of Physics Condensed Matter, 2018, 30, 015401.	1.8	5
16	Role of dilution on the electronic structure and magnetic ordering of spinel cobaltites. Physical Review B, 2018, 98, .	3.2	17
17	Site Occupancies and Their Effects on the Physical Properties of Spinel : An Ab Initio Study. Physica Status Solidi (B): Basic Research, 2018, 255, 1800025.	1.5	3
18	New quaternary half-metallic ferromagnets with large Curie temperatures. Scientific Reports, 2017, 7, 1803.	3.3	119

#	Article	IF	Citations
19	Interplay of phase sequence and electronic structure in the modulated martensites of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> from first-principles calculations. Physical Review B, 2017, 96, .	3.2	19
20	Effect of electron-electron correlation and site disorder on the magnetic moment and half-metallicity of Co 2 FeGa 1âˆ'x Si x alloys. Materials Chemistry and Physics, 2016, 177, 564-569.	4.0	5
21	Effect of Fe doping in the structural, electronic and magnetic properties of CoCr2O4: insights fromab initiocalculations. Materials Research Express, 2016, 3, 106106.	1.6	5
22	Experimental and ab initio studies on sub-lattice ordering and magnetism in Co2Fe(Ge1âˆ'xSix) alloys. Journal of Applied Physics, 2015, 118, 133906.	2.5	3
23	Anti-site disorder and improved functionality of Mn2NiX (X = Al, Ga, In, Sn) inverse Heusler alloys. Journal of Applied Physics, 2014, 116, .	2.5	16
24	First-principles based calculation of phonon spectrain substitutionally disordered alloys. , 2013, , .		0
25	First-principles study of magnetism in Pd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Fe under pressure. Physical Review B, 2012, 86, .	3.2	13
26	A new first principles approach to calculate phonon spectra of disordered alloys. Journal of Physics Condensed Matter, 2012, 24, 015402.	1.8	15
27	First-principles investigations of the electronic structure and properties related to shape-memory behavior in Mn2NiX (Xâ€‰=â€‰Al,Ga,In,Sn) alloys. Journal of Applied Physics, 2011, 110, .	2.5	48
28	First-principles prediction of shape memory behavior and ferrimagnetism in Mn₂NiSn. Journal of Physics Condensed Matter, 2011, 23, 206003.	1.8	24
29	Vibrational properties of Nix Pt1âˆ'x alloys: An understanding fromab initiocalculations. Journal of Applied Physics, 2011, 109, 053714.	2.5	9
30	Complex magnetic interactions in off-stoichiometric NiMnGa alloys. Journal of Physics Condensed Matter, 2010, 22, 346001.	1.8	11
31	Ab initiocalculation of phonon dispersions in size-mismatched disordered alloys. Physical Review B, 2010, 82, .	3.2	14
32	Phonon spectra of Pd_xFe_{1âˆ'x}alloys with transferable force constants. Journal of Physics Condensed Matter, 2009, 21, 395401.	1.8	10
33	Ab initiocalculation of lattice dynamics in FePd intermetallics. Journal of Physics Condensed Matter, 2008, 20, 275208.	1.8	6
34	Phonons in disordered alloys: Comparison between augmented-space-based approximations for configuration averaging to integration from first principles. Physical Review B, 2007, 75, .	3.2	22
35	Phonons in random alloys:â€ƒThe itinerant coherent-potential approximation. Physical Review B, 2002, 66, .	3.2	65