# 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 | New quaternary half-metallic ferromagnets with large Curie temperatures. Scientific Reports, 2017, 7, 1803. | 3.3 | 119 |
| 2 | Graphene aided gelation of MXene with oxidation protected surface for supercapacitor electrodes with excellent gravimetric performance. Carbon, 2020, 169, 225-234. | 10.3 | 73 |
| 3 | Phonons in random alloys:â€ƒThe itinerant coherent-potential approximation. Physical Review B, 2002, 66, . | 3.2 | 65 |
| 4 | 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 |
| 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 Bi<sub>2</sub>O<sub>2</sub>Se/CsPbBr<sub>3</sub> nanocrystal heterostructure and its exploitation in superior photodetection: experiment vs. theory. Nanoscale, 2021, 13, 14945-14959. | 5.6 | 28 |
| 7 | First-principles prediction of shape memory behavior and ferrimagnetism in Mn<sub>2</sub>NiSn. Journal of Physics Condensed Matter, 2011, 23, 206003. | 1.8 | 24 |
| 8 | 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 |
| 9 | 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 alloys with excess Ni and Mn. Physical Review B, 2019, 99, . | 3.2 | 20 |
| 10 | 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 from first-principles calculations. Physical Review B, 2017, 96, . | 3.2 | 19 |
| 11 | Role of dilution on the electronic structure and magnetic ordering of spinel cobaltites. Physical Review B, 2018, 98, . | 3.2 | 17 |
| 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 | 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 |
| 14 | A new first principles approach to calculate phonon spectra of disordered alloys. Journal of Physics Condensed Matter, 2012, 24, 015402. | 1.8 | 15 |
| 15 | Ab initiocalculation of phonon dispersions in size-mismatched disordered alloys. Physical Review B, 2010, 82, . | 3.2 | 14 |
| 16 | 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 compounds: Insights from first-principles calculations. Physical Review B, 2020, 101, . | 3.2 | 14 |
| 17 | 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 |
| 18 | Complex magnetic interactions in off-stoichiometric NiMnGa alloys. Journal of Physics Condensed Matter, 2010, 22, 346001. | 1.8 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Phonon spectra of Pd<sub>x</sub>Fe<sub>1â^'x</sub>alloys with transferable force constants. Journal of Physics Condensed Matter, 2009, 21, 395401. | 1.8 | 10 |
| 21 | Vibrational properties of Nix Pt1â^'x alloys: An understanding fromab initiocalculations. Journal of Applied Physics, 2011, 109, 053714. | 2.5 | 9 |
| 22 | 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 |
| 23 | Phonons in magnetically disordered materials: Magnetic versus phononic time scales. Physical Review B, 2020, 101, . | 3.2 | 8 |
| 24 | 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 |
| 25 | Ab initiocalculation of lattice dynamics in FePd intermetallics. Journal of Physics Condensed Matter, 2008, 20, 275208. | 1.8 | 6 |
| 26 | Theoretical investigation of capacitances in functionalised MXene supercapacitors M<sub>n+1</sub>C<sub>n</sub>O<sub>2</sub>, Mâ€‰=â€‰Ti, V, Nb, Mo. Journal Physics D: Applied Physics, 2022, 55, 085502. | 2.8 | 6 |
| 27 | Effect of electron-electron correlation and site disorder on the magnetic moment and half-metallicity of Co 2 FeGa 1â^'x Si x alloys. Materials Chemistry and Physics, 2016, 177, 564-569. | 4.0 | 5 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Experimental and ab initio studies on sub-lattice ordering and magnetism in Co2Fe(Ge1â^'xSix) alloys. Journal of Applied Physics, 2015, 118, 133906. | 2.5 | 3 |
| 32 | 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 |
| 33 | 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 |
| 34 | First-principles based calculation of phonon spectrain substitutionally disordered alloys. , 2013, , . | | 0 |
| 35 | 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 |