

Tufan Roy

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

332
citations

933447

10
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab-initio studies of effect of copper substitution on the electronic and magnetic properties of Ni ₂ MnGa and Mn ₂ NiGa. Physical Review B, 2013, 88, .	3.2	60
2	Probing the possibility of coexistence of martensite transition and half-metallicity in Ni and Co-based full-Heusler alloys: An ab initio calculation. Physical Review B, 2016, 93, .	3.2	40
3	Effect of substitution on elastic stability, electronic structure and magnetic property of Ni ²⁺ Mn based Heusler alloys: An ab initio comparison. Journal of Alloys and Compounds, 2015, 632, 822-829.	5.5	38
4	Possibility of martensite transition in Pt ²⁺ Y ²⁺ Ga (Y=Cr, Mn, and Fe) system: An ab-initio calculation of the bulk mechanical, electronic and magnetic properties. Journal of Magnetism and Magnetic Materials, 2016, 401, 929-937.	2.3	30
5	Ab initio studies on electronic and magnetic properties of X ₂ PtGa (X=Cr, Mn, Fe, Co) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2017, 423, 395-404.	2.3	28
6	Electronic structure of Au-Sn compounds grown on Au(111). Physical Review B, 2019, 100, .	3.2	25
7	Magnetic tunnel junctions with metastable bcc Co ₃ Mn electrodes. Applied Physics Express, 2020, 13, 083007.	2.4	18
8	Magnetic tunnel junctions with a Co_2Mn -ordered CoFeCrAl equiatomic Heusler alloy. Physical Review Materials, 2019, 3, .	2.4	17
9	Magnetic properties and electronic structure of Mn ²⁺ Ni ²⁺ Ga magnetic shape memory alloys. Journal of Physics Condensed Matter, 2014, 26, 506001.	1.8	12
10	Temperature Dependent EXAFS Study of Chromium-Doped GaFeO ₃ at Gallium and Iron Edges. Journal of Physical Chemistry C, 2015, 119, 2029-2037.	3.1	12
11	Structure and magnetism in metastable bcc Co ₂ Mn _{1-x} (0 ≤ x ≤ 1) (001) Ferromagnetic Layers for a Strain-Free Magnetic Tunnel Junction. Physical Review Applied, 2021, 15, 011101.	3.8	10
12	Ab initio study of effect of Co substitution on the magnetic properties of Ni and Pt-based Heusler alloys. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1449-1456.	2.1	8
13	Ab-initio study of electronic and magnetic properties of Co ₂ MnZ (Z=Al, Si, Ga, Ge) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2020, 498, 166092.	2.3	8
14	Topological electronic structure of YbMg ₂ Bi ₂ and CaMg ₂ Bi ₂ . Npj Quantum Materials, 2022, 7, .	5.2	7
15	Structural and magnetism in metastable bcc Co ₂ Mn _{1-x} (0 ≤ x ≤ 1) (001) Ferromagnetic Layers for a Strain-Free Magnetic Tunnel Junction. Physical Review Applied, 2021, 15, 011101.	3.8	10
16	Structural and magnetic properties of Co ₂ MnAl equiatomic quaternary Heusler alloy epitaxial films designed using first-principles calculations. Journal of Alloys and Compounds, 2021, 868, 159175.	5.5	5
17	IrCrMnZ (Z=Al, Ga, Si, Ge) Heusler alloys as electrode materials for MgO-based magnetic tunneling junctions: A first-principles study. Journal Physics D: Applied Physics, 0, , .	2.8	3
18	Magnetic interactions and electronic structure of $\text{Pt}_2\text{Mn}_{1-x}\text{Y}_x$ (Y = Cr and Fe) system: An ab-initio calculation. Pramana - Journal of Physics, 2017, 89, 1.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Ab initio study of electronic and magnetic properties of Mn ₂ RuZ/MgO (001) heterojunctions (Z = Al, Tj ETQq1 1 0,784314 rgBT /Ove	1.8	14
20	Ab-initio study of X-ray absorption and X-ray magnetic circular dichroism spectra of $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si12.gif"} \text{ overflow}=\text{"scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Mn} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mp} \rangle 2 \langle \text{mml:} \text{ and} \langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si17.gif"} \text{ overflow}=\text{"scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Co} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:} \text{Journal of Magnetism and Magnetic Materials, 2018, 466, 143-149.}$	2.3	1
21	Study of effect of copper-substitution at Ga site in some Ga-based Heusler alloys from first-principles calculations. AIP Conference Proceedings, 2015, , .	0.4	0
22	Study of structural, magnetic and electronic properties of Ni-Fe-Ga based ferromagnetic shape memory alloys. AIP Conference Proceedings, 2017, , .	0.4	0