Ziya Merdan

List of Publications by Year
in descending order

29 papers	303 citations	933447 10 h-index	996975 15 g-index
29 all docs	29 docs citations	29 times ranked	201 citing authors

#	Article	IF	Citations
1	The effect of structural changes on half-metallic, elastic and magnetic properties of the FeWGa half-Heusler compound via first-principles studies. Journal of Magnetism and Magnetic Materials, 2022, 546, 168872.	2.3	12
2	Electronic, magnetic and elastic calculations on half-metallic Heusler Ti₂RuTl compound. Philosophical Magazine, 2022, 102, 153-165.	1.6	1
3	Comparative Studies of Undoped/Al-Doped/In-Doped ZnO Transparent Conducting Oxide Thin Films in Optoelectronic Applications. Chemosensors, 2022, 10, 162.	3.6	9
4	Bridge constant and atom between theoretical and experimental magnetism in Ni₂MnSb Heusler alloy: DFT and EFT studies. Philosophical Magazine, 2021, 101, 501-516.	1.6	6
5	First-principles calculations to investigate half-metallic band gap and elastic stability of Co(Mo,Tc)MnSb compounds. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 133, 114790.	2.7	12
6	Comparisons of half-metallic results of Al0Â·75Co0Â·25Sb diluted magnetic semiconductor with generalized gradient approximation (GGA) and Tran Blaha modified Becke-Johnson (TB_mBJ) potential methods. Physica B: Condensed Matter, 2020, 581, 411841.	2.7	14
7	The effect of structural changes on the half metallic properties by using Tran Blaha modified Becke Johnson (TB_mBJ) method. Journal of Magnetism and Magnetic Materials, 2020, 514, 167198.	2.3	12
8	A study of structural, electronic, elastic, phonon properties, and transition mechanism of wurtzite CdTe under high pressure. Solid State Sciences, 2020, 105, 106209.	3.2	6
9	First-principles calculations on half-metal ferromagnetic results of VZrAs and VZrSb half-heusler compounds and Al1-xMxAs (M= Co, Fe and xÂ= 0.0625, 0.125, 0.25) diluted magnetic semiconductors. Journal of Alloys and Compounds, 2019, 807, 151656.	5.5	17
10	First principle predictions on half-metallic results of MnZrX (Xâ€¯=â€¯In, Tl, C, Si, Ge, Sn, Pb, N, P, As, Sb, O, S,) Tj ETQq0 0 0 rgBT /Overlo	2.3	19
11	Half-metal calculations of CoZrGe half-Heusler compound by using generalized gradient approximation (GGA) and modified Becke-Johnson (mBJ) methods. Materials Research Express, 2019, 6, 116124.	1.6	11
12	Theoretical calculations on half-metallic results properties of FeZrX (X = P, As, Sb and Bi) half-Heusler compounds: density functional theory. Materials Research Express, 2019, 6, 086102.	1.6	17
13	Key role of central antimony in magnetization of Ni0.5Co1.5MnSb quaternary Heusler alloy revealed by comparison between theory and experiment. Physica B: Condensed Matter, 2019, 560, 46-50.	2.7	26
14	First-principles predictions on structural, electronic, magnetic and elastic properties of Mn2IrAl Heusler alloy. Materials Research Express, 2019, 6, 036101.	1.6	9
15	Structural and electronic properties of BiOF with two-dimensional layered structure under high pressure: Ab initio study. Solid State Communications, 2019, 288, 33-37.	1.9	11
16	Pressure-induced phase transitions, electronic, elastic and vibrational properties of zinc oxide under high pressure. Indian Journal of Physics, 2019, 93, 979-989.	1.8	8
17	Investigation of structural and electronic properties of Î²-â€‰HgS: Molecular dynamics simulations. Chinese Journal of Physics, 2018, 56, 783-792.	3.9	12
18	Electrical characterization of two analogous Schottky contacts produced from N-substituted 1,8-naphthalimide. Physical Chemistry Chemical Physics, 2018, 20, 30502-30513.	2.8	3

#	Article	IF	Citations
19	Structural phase transition and electronic properties of CaO under high pressure. Materials Research Express, 2018, 5, 125903.	1.6	10
20	Synthesis of isoniazid substituted pyrene (PINHy), and investigation of its optical and electrochemical features as tunable/flexible OLEDs. Journal of Materials Science: Materials in Electronics, 2017, 28, 13094-13100.	2.2	3
21	The Finite-Size Scaling Relation for the Order-Parameter Probability Distribution of the Six-Dimensional Ising Model. International Journal of Theoretical Physics, 2016, 55, 4822-4829.	1.2	1
22	Theoretical calculations of high-pressure phases of NiF2: An ab initio constant-pressure study. Russian Journal of Physical Chemistry A, 2016, 90, 2550-2555.	0.6	13
23	Optical performance of efficient blue/near UV nitropyridine-conjugated anthracene (NAMA) based light emitting diode. Organic Electronics, 2016, 31, 25-30.	2.6	20
24	Pressure-induced phase transitions and structural properties of CoF2: An ab-initio molecular dynamics study. Solid State Communications, 2016, 231-232, 17-25.	1.9	9
25	The finite-size scaling study of four-dimensional Ising model in the presence of external magnetic field. Low Temperature Physics, 2014, 40, 1058-1062.	0.6	1
26	Current-conduction mechanisms in Au/n-CdTe Schottky solar cells in the wide temperature range. Physica B: Condensed Matter, 2012, 407, 2560-2565.	2.7	7
27	The Simulation of the Two-Dimensional Ising Model on the Creutz Cellular Automaton for the Fractals Obtained by Using the Model of Diffusion-Limited Aggregation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 705-710.	1.5	5
28	The Finite-Size Scaling Study of the Specific Heat and the Binder Parameter of the Two-Dimensional Ising Model for the Fractals Obtained by Using the Model of Diffusion-Limited Aggregation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 849-854.	1.5	3
29	The finite-size scaling study of the specific heat and the Binder parameter for the six-dimensional Ising model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 330, 403-407.	2.1	26