

Ziya Merdan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The finite-size scaling study of the specific heat and the Binder parameter for the six-dimensional Ising model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 330, 403-407.	2.1	26
2	Key role of central antimony in magnetization of Ni _{0.5} Co _{1.5} MnSb quaternary Heusler alloy revealed by comparison between theory and experiment. <i>Physica B: Condensed Matter</i> , 2019, 560, 46-50.	2.7	26
3	Optical performance of efficient blue/near UV nitropyridine-conjugated anthracene (NAMA) based light emitting diode. <i>Organic Electronics</i> , 2016, 31, 25-30.	2.6	20
4	First principle predictions on half-metallic results of MnZrX (X = In, Tl, C, Si, Ge, Sn, Pb, N, P, As, Sb, O, S). <i>Tj ET Og 0 0 0 rg BT / Overlo</i>	2.3	19
5	First-principles calculations on half-metal ferromagnetic results of VZrAs and VZrSb half-Heusler compounds and Al _{1-x} M _x As (M = Co, Fe and x = 0.0625, 0.125, 0.25) diluted magnetic semiconductors. <i>Journal of Alloys and Compounds</i> , 2019, 807, 151656.	5.5	17
6	Theoretical calculations on half-metallic results properties of FeZrX (X = P, As, Sb and Bi) half-Heusler compounds: density functional theory. <i>Materials Research Express</i> , 2019, 6, 086102.	1.6	17
7	Comparisons of half-metallic results of Al _{0.75} Co _{0.25} Sb diluted magnetic semiconductor with generalized gradient approximation (GGA) and Tran Blaha modified Becke-Johnson (TB_mBJ) potential methods. <i>Physica B: Condensed Matter</i> , 2020, 581, 411841.	2.7	14
8	Theoretical calculations of high-pressure phases of NiF ₂ : An ab initio constant-pressure study. <i>Russian Journal of Physical Chemistry A</i> , 2016, 90, 2550-2555.	0.6	13
9	Investigation of structural and electronic properties of HgS: Molecular dynamics simulations. <i>Chinese Journal of Physics</i> , 2018, 56, 783-792.	3.9	12
10	The effect of structural changes on the half metallic properties by using Tran Blaha modified Becke Johnson (TB_mBJ) method. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167198.	2.3	12
11	First-principles calculations to investigate half-metallic band gap and elastic stability of Co(Mo,Tc)MnSb compounds. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 133, 114790.	2.7	12
12	The effect of structural changes on half-metallic, elastic and magnetic properties of the FeWGa half-Heusler compound via first-principles studies. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168872.	2.3	12
13	Half-metal calculations of CoZrGe half-Heusler compound by using generalized gradient approximation (GGA) and modified Becke-Johnson (mBJ) methods. <i>Materials Research Express</i> , 2019, 6, 116124.	1.6	11
14	Structural and electronic properties of BiOF with two-dimensional layered structure under high pressure: Ab initio study. <i>Solid State Communications</i> , 2019, 288, 33-37.	1.9	11
15	Structural phase transition and electronic properties of CaO under high pressure. <i>Materials Research Express</i> , 2018, 5, 125903.	1.6	10
16	Pressure-induced phase transitions and structural properties of CoF ₂ : An ab-initio molecular dynamics study. <i>Solid State Communications</i> , 2016, 231-232, 17-25.	1.9	9
17	First-principles predictions on structural, electronic, magnetic and elastic properties of Mn ₂ IrAl Heusler alloy. <i>Materials Research Express</i> , 2019, 6, 036101.	1.6	9
18	Comparative Studies of Undoped/Al-Doped/In-Doped ZnO Transparent Conducting Oxide Thin Films in Optoelectronic Applications. <i>Chemosensors</i> , 2022, 10, 162.	3.6	9

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Bridge constant and atom between theoretical and experimental magnetism in Ni ₂ MnSb Heusler alloy: DFT and EFT studies. Philosophical Magazine, 2021, 101, 501-516.	1.6	6
23	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
24	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
25	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
26	Electrical characterization of two analogous Schottky contacts produced from <i>N</i> -substituted 1,8-naphthalimide. Physical Chemistry Chemical Physics, 2018, 20, 30502-30513.	2.8	3
27	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
28	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
29	Electronic, magnetic and elastic calculations on half-metallic Heusler Ti ₂ RuTi compound. Philosophical Magazine, 2022, 102, 153-165.	1.6	1