Ali Bentouaf

List of Publications by Year
in descending order

31 papers	254 citations	1162367 8 h-index	996533 15 g-index
31 all docs	31 docs citations	31 times ranked	180 citing authors

#	Article	IF	Citations
1	Computational determination of structural, electronic, magnetic and thermodynamic properties of Co2HfZ (ZÂ=ÂAl, Ga, Si and Sn) full Heusler compounds for spintronic applications. Journal of Alloys and Compounds, 2022, 894, 162503.	2.8	15
2	Density functional theory study on the magneto-electronic, mechanical, thermal, and transport properties of a novel Co2VGa0.5Al0.5 quaternary Heusler alloy. Emergent Materials, 2022, 5, 1819-1830.	3.2	4
3	Theoretical study of magnetoâ€electronic properties of <scp>TmCo₂</scp> and <scp>NdCo₂</scp> intermetallic compounds through density functional theory calculations. International Journal of Quantum Chemistry, 2021, 121, e26488.	1.0	4
4	Elastic, Half-Metallicity, Thermodynamic, and Transport Properties of Ru2VGe and Ru2VSb Full-Heusler Compounds: a First-Principle Study. Journal of Superconductivity and Novel Magnetism, 2021, 34, 157-167.	0.8	5
5	Thermoelectric Potential of OsAl2 Chimney LadderCompound: a Theoretical Investigation. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1215-1223.	0.8	0
6	Bandgap Tuning of High Mobility Magnetron Sputtered Copper (I) Oxide Thin Films for Perovskite Solar Cell Applications. Journal of Thin Films Research, 2021, 5, 51-54.	0.5	3
7	Structural, Electronic, Magnetic, and Mechanical Properties of Ru2CrAl Full Heusler with the 3d Transition Metal Elements: DFT Calculation. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1941-1948.	0.8	4
8	Theoretical insight of stabilities and optoelectronic features of Ru-based Heusler alloys: Ab-initio calculations. Computational Condensed Matter, 2021, 28, e00573.	0.9	9
9	Investigation of Ruthenium based Full-Heusler compound for thermic, spintronics and thermoelectric applications: DFT computation. Materials Science in Semiconductor Processing, 2021, 134, 106047.	1.9	15
10	High-throughput study of the structural, electronic, and optical properties of short-period (BeSe)m/(ZnSe)n superlattices based on DFT calculations. Computational Condensed Matter, 2021, 29, e00598.	0.9	6
11	Electronic structure, magnetic and structural properties of binary cubic C15 Laves phases PrX2 (Xâ€‰=â€‰Co) Tj ETQq1 1 0.784314	1.1	7
12	Structural, electronic, elastic, magnetic and thermodynamic properties of <scp>Mn₂LuZ</scp> (Z = B, Al, Ga and In) <scp>Heusler</scp> compounds: A firstâ€principle study. International Journal of Quantum Chemistry, 2021, 121, .	1.0	4
13	Functionalized single-walled carbon-nanotube-blended P3HT-based high performance memory behavior thin-film transistor devices. Nanotechnology, 2020, 31, 075201.	1.3	8
14	Structural, Magnetic, and Band Structure Characteristics of the Half-Metalâ€“Type Heusler Alloys Co2VSi1âˆ’xAlx (x = 0, 0.25, 0.5, 0.75, and 1). Journal of Superconductivity and Novel Magnetism, 2020, 33, 1177-1186.	0.8	5
15	Investigation of structural and magnetoelectronic properties of new halfâ€metallic Heusler alloys <scp>Ru₂VGe_xSb₁</scp>_{âˆ’x} (x =â€‰0,) Tj ETQq1 1 0.784314 e26413.	1.0	7
16	DFT Study on the Electronic Structure and the Magnetic Properties of SmFe₂ and HoCo₂Binary Cubic C15-Laves Phases. Spin, 2020, 10, .	0.6	2
17	Correlation effect on the electronic structure of RECo2 (RE= Gd and Eu) intermetallic compounds: A comparative study. Computational Condensed Matter, 2020, 24, e00487.	0.9	2
18	First Principle Investigation of Structural, Electronic and Optical Properties of Quaternary BxInyGa1âˆ’xâˆ’yN Compounds. Spin, 2020, 10, 2050024.	0.6	1

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19	Influence of single-walled carbon nanotubes induced exciton dissociation improvement on hybrid organic photovoltaic devices. Journal of Applied Physics, 2019, 126, .	1.1	9
20	Electronic structure of REFe2 (REâ€¯=â€¯Dy, Ho and Er) intermetallic compounds: Ab initio spin-density functional theory. Solid State Communications, 2019, 296, 42-48.	0.9	11
21	Correlation effects on the electronic structure of Co2VGa1â^'xSix (xâ€¯=â€¯0, 0.25, 0.5, 0.75 and 1) quaternary Heusler alloys: First-principles calculations. Journal of Alloys and Compounds, 2019, 771, 1062-1071.	2.8	15
22	Structural, Elastic, and Electronic Properties of CeN and LuN Using: Ab Initio Study. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3323-3330.	0.8	4
23	Photoluminescence quenching, structures, and photovoltaic properties of ZnO nanostructures decorated plasma grown single walled carbon nanotubes. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	1
24	First-Principles Study on the Structural, Electronic, Magnetic and Thermodynamic Properties of Full Heusler Alloys Co2VZ (ZÂ=ÂAl, Ga). Journal of Electronic Materials, 2017, 46, 130-142.	1.0	34
25	Theoretical investigation of the structural, electronic, magnetic and elastic properties of binary cubic C15-Laves phases TbX2 (XÂ=ÂCo and Fe). Journal of Alloys and Compounds, 2016, 689, 885-893.	2.8	38
26	First Principles Study of Mechanical Stability and Thermodynamic Properties of K₂S under Pressure and Temperature Effect. Acta Physica Polonica A, 2016, 129, 315-322.	0.2	4
27	Structural, electronic, magnetic and thermodynamic properties of full-Heusler compound Co2VSi: Ab initio study. Journal of Magnetism and Magnetic Materials, 2015, 381, 65-69.	1.0	29
28	First Principles Study of Structural and Electronic Properties of O_xS₁₋_xZn Ternary Alloy. Materials Sciences and Applications, 2013, 04, 63-69.	0.3	0
29	Structural and Electronic Properties Calculations of AlAs_{1-x}P_x Alloy. American Journal of Condensed Matter Physics, 2012, 2, 126-134.	0.2	3
30	Structural and Electronic Properties Calculations of Al _xIn_{1-x}P Alloy. Materials Sciences and Applications, 2011, 02, 729-737.	0.3	4
31	Photovoltaic properties of hybrid c-Si/ZnO nanorods solar cells. Materials Advances, 0, , .	2.6	1