

Abdullah Candan

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papers

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g-index

33
ext. papers

391
ext. citations

3
avg, IF

3.88
L-index

#	Paper	IF	Citations
31	Electronic structure and vibrational properties in cobalt-based full-Heusler compounds: A first principle study of Co ₂ MnX (X=Si, Ge, Al, Ga). <i>Journal of Alloys and Compounds</i> , 2013 , 560, 215-222	5.7	71
30	Electronic and phonon properties of the full-Heusler alloys X ₂ YAl (X = Co, Fe and Y = Cr, Sc): a density functional theory study. <i>Journal of Materials Science</i> , 2014 , 49, 4180-4190	4.3	34
29	Structural, elastic, electronic and phonon properties of scandium-based compounds ScX ₃ (X=Ir, Pd, Pt and Rh): An ab initio study. <i>Computational Materials Science</i> , 2013 , 79, 703-709	3.2	19
28	Theoretical research on structural, electronic, mechanical, lattice dynamical and thermodynamic properties of layered ternary nitrides Ti ₂ AN (A = Si, Ge and Sn). <i>Journal of Alloys and Compounds</i> , 2019 , 771, 664-673	5.7	18
27	Phase transition of Nowotny phase NaZnX (X=P, As and Sb) compounds at high pressure: Theoretical investigation of structural, electronic and vibrational properties. <i>Computational Materials Science</i> , 2014 , 87, 187-197	3.2	16
26	Electronic structure, elastic and phonon properties of perovskite-type hydrides MgXH ₃ (X = Fe, Co) for hydrogen storage. <i>Solid State Communications</i> , 2018 , 281, 38-43	1.6	15
25	Investigation of structural, electronic, magnetic and lattice dynamical properties for XCoBi (X: Ti, Zr, Hf) Half-Heusler compounds. <i>Physica B: Condensed Matter</i> , 2020 , 587, 412146	2.8	13
24	First principles study on the structural, electronic, mechanical and lattice dynamical properties of XRhSb (X = Ti and Zr) paramagnet half-Heusler antimonides. <i>Materials Research Express</i> , 2019 , 6, 106315	1.7	10
23	Equiatomic quaternary Heusler compounds TiVFeZ (Z=Al, Si, Ge): Half-metallic ferromagnetic materials. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160869	5.7	10
22	First-principles study of structural, electronic, elastic and phonon properties of AB ₂ O ₄ (A = Ge,Si;B = Mg,Zn,Cd) spinel oxides. <i>Modern Physics Letters B</i> , 2016 , 30, 1650002	1.6	7
21	CaXH ₃ (X = Mn, Fe, Co) perovskite-type hydrides for hydrogen storage applications. <i>International Journal of Energy Research</i> , 2020 , 44, 2345-2354	4.5	7
20	An examination of the structural, electronic, elastic, vibrational and thermodynamic properties of Ru ₂ YGa (Y = Sc, Ti and V) Heusler alloys. <i>Chinese Journal of Physics</i> , 2018 , 56, 1772-1780	3.5	7
19	Structural, elastic, electronic, and magnetic properties of Si-doped Co ₂ MnGe full-Heusler type compounds. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155499	5.7	6
18	Structural, elastic, electronic and vibrational properties of XAl ₂ O ₄ (X = Ca, Sr and Cd) semiconductors with orthorhombic structure. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151773	5.7	6
17	Ab-initio study of the structural, electronic, elastic and vibrational properties of the intermetallic Pd ₃ V and Pt ₃ V alloys in the L1 ₂ phase. <i>Metals and Materials International</i> , 2014 , 20, 765-773	2.4	6
16	Magnetic, Electronic, Mechanic, Anisotropic Elastic and Vibrational Properties of Antiferromagnetic Ru ₂ TGa (T = Cr, Mn, and Co) Heusler Alloys. <i>Journal of Electronic Materials</i> , 2019 , 48, 7608-7622	1.9	5
15	First-principle investigation for the hydrogen storage properties of NaXH ₃ (X= Mn, Fe, Co) perovskite type hydrides. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30218-30225	6.7	5

14	A study on magnetic, electronic, elastic and vibrational properties of Ir ₂ MnAl Heusler alloy for spintronic applications. <i>Materials Research Express</i> , 2019 , 6, 096571	1.7	4
13	First principles investigation of the structural, elastic, electronic and vibrational properties of vanadium-based V ₃ X (X = Fe, Co, and Ni) compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 150, 109854	3.9	3
12	Structural, Electronic, and Magnetic Properties of Hard Magnetic SmNi ₂ Fe Compound: a DFT Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 3901-3905	1.5	2
11	First principles investigations of the structural, elastic, electronic, vibrational and thermodynamic properties of hexagonal XAl ₂ O ₄ (X = Cd, Ca and Sr). <i>Materials Research Express</i> , 2019 , 6, 085518	1.7	2
10	Thermodynamic Modeling of the Al-Ba and Ba-Ge Systems Supported by First-Principles Calculations. <i>Journal of Phase Equilibria and Diffusion</i> , 2019 , 40, 195-205	1	2
9	AB INITIO STUDY OF PHONON DISPERSION AND ELASTIC PROPERTIES OF L12 INTERMETALLICS Ti ₃ Al AND Y ₃ Al. <i>Modern Physics Letters B</i> , 2013 , 27, 1350224	1.6	2
8	Electronic nature, optical and mechanical properties of MPtO (M = Sc, Y and La) pyrochlores: A DFT study. <i>Physica B: Condensed Matter</i> , 2021 , 607, 412862	2.8	2
7	First-principles studies of Tin ₁ Si _n N _n (n = 1, 2, 3) MAX phase. <i>Philosophical Magazine</i> , 2020 , 100, 2183-22046		1
6	First principles study of the structural, elastic, electronic and phonon properties of CdX ₂ O ₄ (X=Al, Ga, In) spinel-type oxides 2014 ,		1
5	A first-principles study of the structural, electronic, optical, and vibrational properties for paramagnetic half-Heusler compound TiIrBi by GGA and GGA + mBJ functional. <i>Materials Today Communications</i> , 2021 , 27, 102246	2.5	1
4	First Brillouin zone-centre phonon frequencies and elastic stiffness of the Ln ₂ Hf ₂ O ₇ (Ln= La, Nd, Sm and Eu) pyrochlore. <i>Computational Condensed Matter</i> , 2019 , 21, e00428	1.7	0
3	Electronic, mechanical and lattice dynamical properties of YXB ₄ (X = Cr, Mn, Fe, and Co) compounds. <i>Physica Scripta</i> , 2019 , 94, 125710	2.6	0
2	Ru ₂ FeGa Heusler ala ^{bu} yap ^{sa} , elektronik, elastik ve fonon zelliklerinin ilk prensip il ^l mas ^ı <i>Sakarya University Journal of Science</i> ,1-1	0.3	0
1	Pressure and spin effect on the stability, electronic and mechanic properties of three equiatomic quaternary Heusler (FeVHfZ, Z = Al, Si, and Ge) compounds. <i>Materials Today Communications</i> , 2021 , 29, 102941	2.5	0