Abdullah Candan

List of Publications by Year in Descending Order

31 papers	275 citations	9 h-index	15 g-index
33 ext. papers	391 ext. citations	3 avg, IF	3.88 L-index

#	Paper	IF	Citations
31	Pressure and spin effect on the stability, electronic and mechanic properties of three equiatomic quaternary Heusler (FeVHfZ, Z = Al, Si, and Ge) compounds. *Materials Today Communications*, **2021**, 29, 102941	2.5	0
30	Electronic nature, optical and mechanical properties of MPtO (M = Sc, Y and La) pyrochlores: A DFT study. *Physica B: Condensed Matter*, **2021**, 607, 412862	2.8	2
29	A first-principles study of the structural, electronic, optical, and vibrational properties for paramagnetic half-Heusler compound TiIrBi by GGA and GGA + mBJ functional. *Materials Today Communications*, **2021**, 27, 102246	2.5	1
28	First principles investigation of the structural, elastic, electronic and vibrational properties of vanadium-based V3X (X = Fe, Co, and Ni) compounds. *Journal of Physics and Chemistry of Solids*, **2021**, 150, 109854	3.9	3
27	Equiatomic quaternary Heusler compounds TiVFeZ (Z=Al, Si, Ge): Half-metallic ferromagnetic materials. *Journal of Alloys and Compounds*, **2021**, 883, 160869	5.7	10
26	First-principles studies of Tin+1SiNn (n = 1, 2, 3) MAX phase. *Philosophical Magazine*, **2020**, 100, 2183-2204	1.6	1
25	Structural, elastic, electronic, and magnetic properties of Si-doped Co2MnGe full-Heusler type compounds. *Journal of Alloys and Compounds*, **2020**, 845, 155499	5.7	6
24	Investigation of structural, electronic, magnetic and lattice dynamical properties for XCoBi (X: Ti, Zr, Hf) Half-Heusler compounds. *Physica B: Condensed Matter*, **2020**, 587, 412146	2.8	13
23	CaXH3 (X = Mn, Fe, Co) perovskite-type hydrides for hydrogen storage applications. *International Journal of Energy Research*, **2020**, 44, 2345-2354	4.5	7
22	First principles study on the structural, electronic, mechanical and lattice dynamical properties of XRhSb (X = Ti and Zr) paramagnet half-Heusler antimonides. *Materials Research Express*, **2019**, 6, 106315	1.7	10
21	Magnetic, Electronic, Mechanic, Anisotropic Elastic and Vibrational Properties of Antiferromagnetic Ru2TGa (T = Cr, Mn, and Co) Heusler Alloys. *Journal of Electronic Materials*, **2019**, 48, 7608-7622	1.9	5
20	First Brillouin zone-centre phonon frequencies and elastic stiffness of the Ln2Hf2O7 (Ln□= La, Nd, Sm and Eu) pyrochlore. *Computational Condensed Matter*, **2019**, 21, e00428	1.7	0
19	Structural, Electronic, and Magnetic Properties of Hard Magnetic SmNi2Fe Compound: a DFT Study. *Journal of Superconductivity and Novel Magnetism*, **2019**, 32, 3901-3905	1.5	2
18	First principles investigations of the structural, elastic, electronic, vibrational and thermodynamic properties of hexagonal XAl2O4 (X = Cd, Ca and Sr). *Materials Research Express*, **2019**, 6, 085518	1.7	2
17	Thermodynamic Modeling of the Al-Ba and Ba-Ge Systems Supported by First-Principles Calculations. *Journal of Phase Equilibria and Diffusion*, **2019**, 40, 195-205	1	2
16	Structural, elastic, electronic and vibrational properties of XAl2O4 (X = Ca, Sr and Cd) semiconductors with orthorhombic structure. *Journal of Alloys and Compounds*, **2019**, 809, 151773	5.7	6
15	A study on magnetic, electronic, elastic and vibrational properties of Ir2MnAl Heusler alloy for spintronic applications. *Materials Research Express*, **2019**, 6, 096571	1.7	4

List of Publications

14	Electronic, mechanical and lattice dynamical properties of YXB4 (X = Cr, Mn, Fe, and Co) compounds. *Physica Scripta*, **2019**, 94, 125710	2.6	0
13	First-principle investigation for the hydrogen storage properties of NaXH3 (X= Mn, Fe, Co) perovskite type hydrides. *International Journal of Hydrogen Energy*, **2019**, 44, 30218-30225	6.7	5
12	Theoretical research on structural, electronic, mechanical, lattice dynamical and thermodynamic properties of layered ternary nitrides Ti2AN (A = Si, Ge and Sn). *Journal of Alloys and Compounds*, **2019**, 771, 664-673	5.7	18
11	Electronic structure, elastic and phonon properties of perovskite-type hydrides MgXH 3 (X = Fe, Co) for hydrogen storage. *Solid State Communications*, **2018**, 281, 38-43	1.6	15
10	An examination of the structural, electronic, elastic, vibrational and thermodynamic properties of Ru2YGa (Y = Sc, Ti and V) Heusler alloys. *Chinese Journal of Physics*, **2018**, 56, 1772-1780	3.5	7
9	First-principles study of structural, electronic, elastic and phonon properties of AB2O4(A = Ge,Si;B = Mg,Zn,Cd) spinel oxides. *Modern Physics Letters B*, **2016**, 30, 1650002	1.6	7
8	Electronic and phonon properties of the full-Heusler alloys X2YAl (X = Co, Fe and Y = Cr, Sc): a density functional theory study. *Journal of Materials Science*, **2014**, 49, 4180-4190	4.3	34
7	Phase transition of Nowotny□uza NaZnX (X=P, As and Sb) compounds at high pressure: Theoretical investigation of structural, electronic and vibrational properties. *Computational Materials Science*, **2014**, 87, 187-197	3.2	16
6	Ab-initio study of the structural, electronic, elastic and vibrational properties of the intermetallic Pd3V and Pt3V alloys in the L12 phase. *Metals and Materials International*, **2014**, 20, 765-773	2.4	6
5	First principles study of the structural, elastic, electronic and phonon properties of CdX2O4 (X=Al, Ga, In) spinel-type oxides **2014**,		1
4	Structural, elastic, electronic and phonon properties of scandium-based compounds ScX3 (X=Ir, Pd, Pt and Rh): An ab initio study. *Computational Materials Science*, **2013**, 79, 703-709	3.2	19
3	Electronic structure and vibrational properties in cobalt-based full-Heusler compounds: A first principle study of Co2MnX (X=Si, Ge, Al, Ga). *Journal of Alloys and Compounds*, **2013**, 560, 215-222	5.7	71
2	AB INITIO STUDY OF PHONON DISPERSION AND ELASTIC PROPERTIES OF L12 INTERMETALLICS Ti3Al AND Y3Al. *Modern Physics Letters B*, **2013**, 27, 1350224	1.6	2
1	Ru2FeGa Heusler ala□□□ yap□sal, elektronik, elastik ve fonon □elliklerinin ilk prensip □l□nas□ *Sakarya University Journal of Science*,1-1	0.3	0