

Salih Akbudak

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

409
citations

933447

10
h-index

752698

20
g-index

25
all docs

25
docs citations

25
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	A study on the vibrational frequencies, elastic properties and sound velocities of vanadium spinel oxides AV_2O_4 ($A = \text{Mn, Fe and Zn}$) short-range non-Coulomb potential theoretical model. Bulletin of Materials Science, 2020, 43, 1.	1.7	86
2	First-principle calculations of structural, electronic and magnetic investigations of $Mn_2RuGe_{1-x}Sn_x$ quaternary Heusler alloys. Chinese Journal of Physics, 2018, 56, 567-573.	3.9	72
3	The peak effect (PE) region of the antiferromagnetic two layer Ising nanographene. Physica B: Condensed Matter, 2014, 452, 18-22.	2.7	41
4	Theoretical research on structural, electronic, mechanical, lattice dynamical and thermodynamic properties of layered ternary nitrides Ti_2AN ($A = \text{Si, Ge and Sn}$). Journal of Alloys and Compounds, 2019, 771, 664-673.	5.5	34
5	Mixed spin-1 and spin-3/2 Ising system with two alternative layers of a honeycomb lattice within the effective-field theory. Solid State Communications, 2011, 151, 193-198.	1.9	33
6	Effective distance of a ferromagnetic trilayer Ising nanostructure with an ABA stacking sequence. Physica A: Statistical Mechanics and Its Applications, 2015, 434, 194-200.	2.6	28
7	Investigation of structural, elastic, electronic, optical and vibrational properties of silver chromate spinels: Normal ($CrAg_2O_4$) and inverse (Ag_2CrO_4). Journal of Alloys and Compounds, 2017, 704, 101-108.	5.5	26
8	Structural, electronic, elastic, optical and vibrational properties of MAI_2O_4 ($M = \text{Co and Mn}$) aluminate spinels. Ceramics International, 2018, 44, 310-316.	4.8	17
9	Structural, elastic, electronic, and magnetic properties of Si-doped Co_2MnGe full-Heusler type compounds. Journal of Alloys and Compounds, 2020, 845, 155499.	5.5	17
10	An examination of the structural, electronic, elastic, vibrational and thermodynamic properties of Ru_2YGa ($Y = \text{Sc, Ti and V}$) Heusler alloys. Chinese Journal of Physics, 2018, 56, 1772-1780.	3.9	11
11	Structural, elastic, electronic and vibrational properties of XAl_2O_4 ($X = \text{Ca, Sr and Cd}$) semiconductors with orthorhombic structure. Journal of Alloys and Compounds, 2019, 809, 151773.	5.5	9
12	Vibrational and elastic properties of $Ln_2Sn_2O_7$ ($Ln = \text{La, Sm, Gd, Dy, Ho, Er, Yb, or Lu}$). Journal of Physics and Chemistry of Solids, 2018, 115, 1-5.	4.0	7
13	Investigation of the structural, electronic, elastic and thermodynamic properties of Curium Monopnictides: An <i>ab initio</i> study. International Journal of Modern Physics B, 2017, 31, 1750226.	2.0	5
14	Lattice dynamical and elastic properties of BaF_{2X} ($X = \text{Cl, Br and I}$): Matlockite structure compounds. International Journal of Modern Physics B, 2019, 33, 1950221.	2.0	4
15	Effect of Core Electrons in Defining the Total Energy, Correlation Energy, and Binding Energy of Graphene, Graphite, and Diamond: a First-Principles Study. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3097-3104.	1.8	3
16	Vibrational and elastic properties of silicate spinels A_2SiO_4 ($A = \text{Mg, Fe, Ni, and Co}$). Journal of Physics and Chemistry of Solids, 2018, 117, 167-172.	4.0	3
17	Structural, Electronic, and Magnetic Properties of Hard Magnetic $SmNi_2Fe$ Compound: a DFT Study. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3901-3905.	1.8	3
18	Vibrational, Elastic Properties and Sound Velocities of $MgTi_2O_4$ Spinel. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1421-1425.	1.8	2

#	ARTICLE	IF	CITATIONS
19	First principles investigations of the structural, elastic, electronic, vibrational and thermodynamic properties of hexagonal XAl_2O_4 ($X = Cd, Ca$ and Sr). Materials Research Express, 2019, 6, 085518.	1.6	2
20	Study of structural, elastic, electronic, and vibrational properties of MRh_2O_4 ($M = Cd$ and Zn) spinels: DFT-based calculations. Journal of Molecular Modeling, 2020, 26, 140.	1.8	2
21	Pressure effect on mechanical stability and ground state optoelectronic properties of Li_2S_2 produced by Lithium-Sulfur batteries discharge: GGA-PBE, GLLB-SC and mBJ investigation. Philosophical Magazine, 2019, 99, 2789-2817.	1.6	1
22	First principles investigations of the structural, elastic, vibrational, and thermodynamic properties of $TiMg_2O_4$ oxide spinels: cubic and tetragonal phases. Journal of Molecular Modeling, 2019, 25, 210.	1.8	1
23	First Brillouin zone-centre phonon frequencies and elastic stiffness of the $Ln_2Hf_2O_7$ ($Ln = La, Nd, Sm$)	1.784314	1
24	Lattice dynamical and elastic properties of mixed quaternary semiconducting alloys $CuGa_{1-x}Al_xS_2$ and $Ag_xCu_{1-x}GaS_2$. Materials Research Express, 2019, 6, 025901.	1.6	1
25	Basis set convergence of binding energy with and without CP-correction utilizing PBE0 method: A benchmark study of X_2 ($X=Ge, As, Se, Sc, Ti, V, Cr, Mn, Co, Cu, Zn$). Journal of Theoretical and Computational Chemistry, 2019, 18, 1950034.	1.8	0