

Gokhan Surucu

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66

papers

727

citations

16

h-index

23

g-index

77

ext. papers

991

ext. citations

3.5

avg, IF

5.03

L-index

#	Paper	IF	Citations
66	Investigation of structural, electronic, anisotropic elastic, and lattice dynamical properties of MAX phases borides: An Ab-initio study on hypothetical MAB ($M \in \{Ti, Zr, Hf\}$; $A \in \{Al, Ga, In\}$) compounds. <i>Materials Chemistry and Physics</i> , 2018 , 203, 106-117	4.4	54
65	Structural and mechanical stability of rare-earth diborides. <i>Chinese Physics B</i> , 2013 , 22, 046202	1.2	53
64	Mechanical and phonon properties of the superhard LuB ₂ , LuB ₄ , and LuB ₁₂ compounds. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1711-1715	5.7	47
63	Produce of graphene/iron pyrite (FeS ₂) thin films counter electrode for dye-sensitized solar cell. <i>Materials Letters</i> , 2016 , 185, 584-587	3.3	27
62	Novel topological nodal lines and exotic drum-head-like surface states in synthesized CsCl-type binary alloy TiOs. <i>Journal of Advanced Research</i> , 2020 , 22, 137-144	13	26
61	The effect of hydrogen on the electronic, mechanical and phonon properties of LaMgNi ₄ and its hydrides for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23397-23408	6.7	25
60	Electronic and lattice dynamical properties of Ti ₂ SiB MAX phase. <i>Materials Research Express</i> , 2018 , 5, 076303	1.7	25
59	First-Principles Study on the MAX Phases Ti _{n+1} Ga _n (n = 1,2, and 3). <i>Journal of Electronic Materials</i> , 2016 , 45, 4256-4264	1.9	22
58	Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with -PbFCl type structure. <i>Journal of Advanced Research</i> , 2020 , 23, 95-100	13	21
57	Mechanical and lattice dynamical properties of the Re ₂ C compound. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 347-349	2.5	21
56	Lattice dynamical and thermo-elastic properties of M ₂ AlB ($M \in \{V, Nb, Ta\}$) MAX phase borides. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153256	5.7	21
55	Electronic, elastic and optical properties on the Zn _{1-x} Mg _x Se mixed alloys. <i>Journal of Materials Science</i> , 2011 , 46, 1007-1014	4.3	19
54	Investigation of structural, electronic and lattice dynamical properties of XNiH ($X \in \{Li, Na \text{ and } K\}$) perovskite type hydrides and their hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15173-15182	6.7	18
53	Structural, electronic, elastic, thermodynamic and vibration properties of TbN compound from first principles calculations. <i>Solid State Sciences</i> , 2012 , 14, 401-408	3.4	18
52	Structural and lattice dynamical properties of Zintl NaIn and NaTl compounds. <i>Computational Materials Science</i> , 2011 , 50, 1070-1076	3.2	18
51	The lattice dynamical and thermo-elastic properties of Rh ₃ X ($X=Ti, V$) compounds. <i>Intermetallics</i> , 2010 , 18, 286-291	3.5	18
50	Investigation of structural, electronic and anisotropic elastic properties of Ru-doped WB ₂ compound by increased valence electron concentration. <i>Materials Chemistry and Physics</i> , 2017 , 189, 90-95	4.4	16

49	Thermo-elastic and lattice dynamical properties of Rh ₃ Hf compound. <i>Computational Materials Science</i> , 2010 , 48, 859-865	3.2	16
48	The electronic and optical properties of Zn _{1-x} CaxSe mixed alloys. <i>Solid State Communications</i> , 2010 , 150, 1413-1418	1.6	16
47	Structural and Thermoelectronic Properties of Chalcopyrite MgSiX ₂ (X = P, As, Sb). <i>Journal of Electronic Materials</i> , 2017 , 46, 247-264	1.9	14
46	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
45	First-principles investigation of LaGaO ₃ and LaInO ₃ lanthanum perovskite oxides. <i>Philosophical Magazine</i> , 2016 , 96, 2040-2058	1.6	13
44	The Investigation of Electronic, Elastic and Vibrational Properties of an Interlanthanide Perovskite: PrYbO ₃ . <i>Journal of Electronic Materials</i> , 2017 , 46, 5827-5836	1.9	12
43	Anisotropic elastic and vibrational properties of Ru ₂ B ₃ and Os ₂ B ₃ : a first-principles investigation. <i>Materials Research Express</i> , 2016 , 3, 076501	1.7	12
42	The investigation of electronic, magnetic, mechanical, and lattice dynamical properties of PdMX (M = Cr, Fe and X = Si and Ge) ferromagnetic half-Heusler metallics: an ab initio study. <i>Materials Research Express</i> , 2017 , 4, 066504	1.7	11
41	Transition metal-doped janus monolayer SMOSe with excellent thermal spin filter and spin Seebeck effect. <i>Applied Surface Science</i> , 2019 , 491, 750-756	6.7	11
40	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
39	MgTiO ₃ H _x and CaTiO ₃ H _x perovskite compounds for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11930-11938	6.7	10
38	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
37	An ab initio study on the investigation of structural, electronic, mechanical and lattice dynamical properties of the M ₂ AX type MAX phases Sc ₂ AlB _{0.5} Co _{0.5} , Sc ₂ AlB _{0.5} N _{0.5} and Sc ₂ AlC _{0.5} N _{0.5} compounds. <i>Materials Research Express</i> , 2017 , 4, 106520	1.7	9
36	The investigation of electronic, anisotropic elastic and lattice dynamical properties of MAB phase nanolaminated ternary borides: M ₂ AlB ₂ (M=Mn, Fe and Co) under spin effects. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155436	5.7	9
35	Anisotropic mechanical properties of Tl ₄ Ag ₁₈ Te ₁₁ compound with low thermal conductivity. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121469	3.3	9
34	The investigation of electronic, mechanical and lattice dynamical properties of PdCoX (X = Si and Ge) half-Heusler metallics in $\bar{1}1\bar{1}$ and $\bar{1}1\bar{1}$ structural phases: an ab initio study. <i>Philosophical Magazine</i> , 2017 , 97, 2237-2254	1.6	8
33	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
32	The electronic and elasticity properties of new half-metallic chalcogenides Cu ₃ TMCh ₄ (TM = Cr, Fe and Ch = S, Se, Te): an ab initio study. <i>Philosophical Magazine</i> , 2019 , 99, 513-529	1.6	7

31	Properties of BaYO ₃ perovskite and hydrogen storage properties of BaYO ₃ H _x . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10507-10515	6.7	7
30	The electronic and optical properties of MB ₁₂ (M = Zr, Hf, Y, Lu) dodecaboride compounds. <i>Physica Scripta</i> , 2013 , 87, 015702	2.6	6
29	First-principles study of structural, elastic, lattice dynamical and thermodynamical properties of GdX (X = Bi, Sb). <i>Philosophical Magazine</i> , 2010 , 90, 1833-1852	1.6	6
28	The structural, electronic, magnetic, and mechanical properties of perovskite oxides PbM _{1/2} Nb _{1/2} O ₃ (M = Fe, Co and Ni). <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850057	1.1	6
27	Pnma metal hydride system LiBH: a superior topological semimetal with the coexistence of twofold and quadruple degenerate topological nodal lines. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 365502	1.8	5
26	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
25	Structural, electronic and mechanical properties of W _{1-x} Tc _x B ₂ alloys. <i>Solid State Communications</i> , 2013 , 171, 1-4	1.6	5
24	First principles study on new half-metallic ferromagnetic ternary zinc-based sulfide and telluride (Zn ₃ VS ₄ and Zn ₃ VTe ₄). <i>Materials Research Express</i> , 2019 , 6, 076107	1.7	4
23	Coexistence of parabolic and linear band crossings and electron-doped spin-gapless properties in rhombohedral type YbBO ₃ . <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153835	5.7	4
22	Electronic and thermodynamic properties of lanthanum tetraboride on low-temperature experimental and ab-initio calculation data. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158020	5.7	4
21	Density functional theory (DFT) study of BaScO ₃ H _{0.5} compound and its hydrogen storage properties. <i>Canadian Journal of Physics</i> , 2019 , 97, 1191-1199	1.1	3
20	Enhancement of hydrogen storage properties of Ca ₃ CH antiperovskite compound with hydrogen doping. <i>International Journal of Energy Research</i> , 2020 , 44, 567-573	4.5	3
19	Experimental and theoretical investigation of the mechanical characteristics of sillenite compound: Bi ₁₂ GeO ₂₀ . <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160686	5.7	3
18	Thermo-Elastic and Lattice Dynamical Properties of Pd ₃ X (X = Ti, Zr, Hf) Alloys: An Ab Initio Study. <i>Brazilian Journal of Physics</i> , 2015 , 45, 604-614	1.2	2
17	Enhancement in Photovoltaic Characteristics of CdS/CdTe Heterojunction. <i>Journal of Polytechnic</i> , 801-805		2
16	The First Principles Investigation of Structural, Electronic, Mechanical and Lattice Dynamical Properties of the B and N Doped M ₂ AX Type MAX Phases Ti ₂ AlB _{0.5} Co _{0.5} and Ti ₂ AlN _{0.5} Co _{0.5} Compounds. <i>Journal of Boron</i> ,		2
15	Anisotropic Elastic and Lattice Dynamical Properties of Cr ₂ AB MAX Phases Compounds. <i>European Journal of Science and Technology</i> , 351-359	0.4	2
14	First principles study of Bi ₁₂ GeO ₂₀ : Electronic, optical and thermodynamic characterizations. <i>Materials Today Communications</i> , 2021 , 27, 102299	2.5	2

13	Enhanced hydrogen storage of a functional material: Hf ₂ CF ₂ MXene with Li decoration. <i>Applied Surface Science</i> , 2021 , 551, 149484	6.7	2
12	The mechanical and electronic properties of spinel oxides VX ₂ O ₄ (X = Mn and Fe) by first principle calculations 2019 ,		2
11	Structural phase transition, electronic, elastic, and vibrational properties of LiAl intermetallic compound: insights from first-principles calculations. <i>Canadian Journal of Physics</i> , 2017 , 95, 691-698	1.1	1
10	First-principles studies of Tin+1SiNn (n = 1, 2, 3) MAX phase. <i>Philosophical Magazine</i> , 2020 , 100, 2183-2204	4.6	1
9	Exploration of carbon additives to the synthesis of CuMoS structures and their electrocatalytic activity in oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 5326-5336	6.7	1
8	Copper-based thiospinel quantum dots as potential candidates for nonlinear optical applications. <i>Optics and Laser Technology</i> , 2022 , 148, 107752	4.2	1
7	Electronic, optical and thermodynamic characteristics of Bi ₁₂ SiO ₂₀ sillenite: First principle calculations. <i>Materials Chemistry and Physics</i> , 2021 , 267, 124711	4.4	1
6	Evaluation of mechanical properties of Bi ₁₂ SiO ₂₀ sillenite using first principles and nanoindentation. <i>Philosophical Magazine</i> , 2021 , 101, 2200-2215	1.6	1
5	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
4	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
3	The investigation of electronic nature and mechanical properties under spin effects for new half-metallic ferromagnetic chalcogenides Ag ₃ CrX ₄ (X = S, Se, and Te). <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 519, 167482	2.8	0
2	Ab-initio studies of some rare-earth borides: CeB ₂ , PrB ₂ , NdB ₂ , and PmB ₂ . <i>International Journal of Materials Research</i> , 2013 , 104, 858-864	0.5	
1	The spin effects on electronic, optical and mechanical properties of new ferromagnetic chalcopyrite: YMnS ₂ . <i>Materials Chemistry and Physics</i> , 2022 , 284, 126030	4.4	