

Gokhan Surucu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
65	Copper-based thiospinel quantum dots as potential candidates for nonlinear optical applications. <i>Optics and Laser Technology</i> , 2022 , 148, 107752	4.2	1
64	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	
63	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
62	First principles study of Bi ₁₂ GeO ₂₀ : Electronic, optical and thermodynamic characterizations. <i>Materials Today Communications</i> , 2021 , 27, 102299	2.5	2
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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}	1.8	5
53	First-principles studies of Tin+1SiNn (n = 1, 2, 3) MAX phase. <i>Philosophical Magazine</i> , 2020 , 100, 2183-2204	4.6	1
52	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
51	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
50	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

49	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
48	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
47	Lattice dynamical and thermo-elastic properties of M ₂ AlB (M= V, Nb, Ta) MAX phase borides. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153256	5.7	21
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	Investigation of structural, electronic and lattice dynamical properties of XNiH (X=Li, Na and K) perovskite type hydrides and their hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15173-15182	6.7	18
38	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
37	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
36	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
35	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
34	The mechanical and electronic properties of spinel oxides VX ₂ O ₄ (X = Mn and Fe) by first principle calculations 2019 ,		2
33	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
32	Investigation of structural, electronic, anisotropic elastic, and lattice dynamical properties of MAX phases borides: An Ab-initio study on hypothetical MAB (M=Ti, Zr, Hf; A=Al, Ga, In) compounds. <i>Materials Chemistry and Physics</i> , 2018 , 203, 106-117	4.4	54

31	The structural, electronic, magnetic, and mechanical properties of perovskite oxides PbM1/2Nb1/2O3(M = Fe, Co and Ni). <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850057	1.1	6
30	The effect of hydrogen on the electronic, mechanical and phonon properties of LaMgNi4 and its hydrides for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23397-23408	6.7	25
29	Electronic and lattice dynamical properties of Ti 2 SiB MAX phase. <i>Materials Research Express</i> , 2018 , 5, 076303	1.7	25
28	The investigation of electronic, mechanical and lattice dynamical properties of PdCoX (X = Si and Ge) half-Heusler metallics in $\bar{1}10$ and $\bar{1}11$ structural phases: an ab initio study. <i>Philosophical Magazine</i> , 2017 , 97, 2237-2254	1.6	8
27	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
26	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
25	Investigation of structural, electronic and anisotropic elastic properties of Ru-doped WB2 compound by increased valence electron concentration. <i>Materials Chemistry and Physics</i> , 2017 , 189, 90-95	4.4	16
24	An ab initio study on the investigation of structural, electronic, mechanical and lattice dynamical properties of the M2AX type MAX phases Sc2AlB0.5C0.5, Sc2AlB0.5N0.5 and Sc2AlC0.5N0.5 compounds. <i>Materials Research Express</i> , 2017 , 4, 106520	1.7	9
23	Structural and Thermoelectronic Properties of Chalcopyrite MgSiX2 (X = P, As, Sb). <i>Journal of Electronic Materials</i> , 2017 , 46, 247-264	1.9	14
22	The Investigation of Electronic, Elastic and Vibrational Properties of an Interlanthanide Perovskite: PrYbO3. <i>Journal of Electronic Materials</i> , 2017 , 46, 5827-5836	1.9	12
21	First-principles investigation of LaGaO3 and LaInO3 lanthanum perovskite oxides. <i>Philosophical Magazine</i> , 2016 , 96, 2040-2058	1.6	13
20	Produce of graphene/iron pyrite (FeS2) thin films counter electrode for dye-sensitized solar cell. <i>Materials Letters</i> , 2016 , 185, 584-587	3.3	27
19	Anisotropic elastic and vibrational properties of Ru2B3 and Os2B3: a first-principles investigation. <i>Materials Research Express</i> , 2016 , 3, 076501	1.7	12
18	First-Principles Study on the MAX Phases Ti n+1GaN n (n = 1, 2, and 3). <i>Journal of Electronic Materials</i> , 2016 , 45, 4256-4264	1.9	22
17	Thermo-Elastic and Lattice Dynamical Properties of Pd3X (X = Ti, Zr, Hf) Alloys: An Ab Initio Study. <i>Brazilian Journal of Physics</i> , 2015 , 45, 604-614	1.2	2
16	Structural and mechanical stability of rare-earth diborides. <i>Chinese Physics B</i> , 2013 , 22, 046202	1.2	53
15	The electronic and optical properties of MB12 (M = Zr, Hf, Y, Lu) dodecaboride compounds. <i>Physica Scripta</i> , 2013 , 87, 015702	2.6	6
14	Structural, electronic and mechanical properties of W1-xTcxB2 alloys. <i>Solid State Communications</i> , 2013 , 171, 1-4	1.6	5

13	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	
12	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
11	Structural and lattice dynamical properties of Zintl NaIn and NaTl compounds. <i>Computational Materials Science</i> , 2011 , 50, 1070-1076	3.2	18
10	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
9	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
8	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
7	Thermo-elastic and lattice dynamical properties of Rh ₃ Hf compound. <i>Computational Materials Science</i> , 2010 , 48, 859-865	3.2	16
6	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
5	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
4	The electronic and optical properties of Zn _{1-x} CaxSe mixed alloys. <i>Solid State Communications</i> , 2010 , 150, 1413-1418	1.6	16
3	Enhancement in Photovoltaic Characteristics of CdS/CdTe Heterojunction. <i>Journal of Polytechnic</i> , 801-805		2
2	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
1	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