Zoulikha Charifi

List of Publications by Year
in descending order

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81	1,403	361045	395343
papers	citations	20 h-index	33 g-index

82	82	82	898
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High pressure study of structural and electronic properties of calcium chalcogenides. Journal of Physics Condensed Matter, 2005, 17, 4083-4092.	0.7	116
2	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.	2.8	92
3	Ab-initio investigation of structural, electronic and optical properties for three phases of ZnO compound. Physica Status Solidi (B): Basic Research, 2007, 244, 3154-3167.	0.7	86
4	An ab initio study of the electronic structure and optical properties of CdS1â^'Te alloys. Solar Energy, 2010, 84, 1979-1984.	2.9	63
5	Structural and electronic properties of the wide-gap Zn1â^'xMgxS, Zn1â^'xMgxSe and Zn1â^'xMgxTe ternary alloys. Journal of Physics Condensed Matter, 2005, 17, 7077-7088.	0.7	56
6	FP-LAPW investigations of Zn1â€“xBexS, Zn1â€“xBexSe and Zn1â€“xBexTe ternary alloys. Physica Status Solidi (B): Basic Research, 2006, 243, 1296-1305.	0.7	53
7	Density functional study of optical properties of beryllium chalcogenides compounds in nickel arsenide B8 structure. Physica B: Condensed Matter, 2012, 407, 286-296.	1.3	45
8	Electronic and phonon properties of the full-Heusler alloys X2YAl (XÂ=ÂCo, Fe and YÂ=ÂCr, Sc): a density functional theory study. Journal of Materials Science, 2014, 49, 4180-4190.	1.7	42
9	Synthesis, Crystallography, Microstructure, Crystal Defects, Optical and Optoelectronic Properties of ZnO:CeO2 Mixed Oxide Thin Films. Photonics, 2020, 7, 112.	0.9	38
10	Ab-initio calculation of structural, electronic, and optical characterizations of the intermetallic trialuminides ScAl3 compound. Journal of Solid State Chemistry, 2010, 183, 1290-1296.	1.4	36
11	Ionicity and transverse effective charge in GaxIn1â^'xAsySb1â^'y quaternary alloy semiconductors. Materials Chemistry and Physics, 2001, 68, 197-203.	2.0	31
12	First-principles study of the optical properties of PbFX (X = Cl, Br, I) compounds in its matlockite-type structure. European Physical Journal B, 2007, 60, 463-468.	0.6	31
13	Structural and electronic properties of GaN x As1â^'x alloys. Applied Physics A: Materials Science and Processing, 2012, 106, 687-696.	1.1	31
14	Further optical properties of CdX (X=S, Te) compounds under quantum dot diameter effect: Ab initio method. Renewable Energy, 2012, 45, 232-236.	4.3	29
15	Electronic, magnetic and thermal properties of Co2Cr Fe1â^'X (X=Al, Si) Heusler alloys: First-principles calculations. Journal of Magnetism and Magnetic Materials, 2016, 414, 219-226.	1.0	28
16	Phase transition of LaX (XÂ= ÂP, As, Sb and Bi) at high pressure: Theoretical investigation of the structural and electronic properties. Solid State Communications, 2008, 148, 139-144.	0.9	27
17	First principles study of hydrogen storage material NaBH₄and LiAlH₄compounds: electronic structure and optical properties. Physica Scripta, 2016, 91, 045804.	1.2	24
18	Structural, elastic, electronic and phonon properties of scandium-based compounds ScX3 (X=Ir, Pd, Pt) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.4	23

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19	Phase transition of Nowotnyâ€“Juza 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.	1.4	23
20	Electronic structure, phase stability, and vibrational properties of Ir-based intermetallic compound IrX (X=Al, Sc, and Ga). Journal of Physics and Chemistry of Solids, 2015, 77, 126-132.	1.9	22
21	The effect of the violation of Vegard's law on the optical bowing in Si1 â^' xGex alloys. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 493-497.	0.9	20
22	The effect of chalcogen atom on the structural, elastic, and highâ€pressure properties of XY compounds (Xâ€‰=â€‰La, Ce, Eu, and Yâ€‰=â€‰S, Se, and Te): An ab initio study. Physica Status Solidi (B): Basic Research, 2012, 249, 18-28.	1.5	19
23	Ab initio full-potential study of the fundamental properties of chalcopyrite semiconductors XPN ₂ (X = H, Cu). Materials Research Express, 2019, 6, 075906.	0.8	18
24	Electronic structure, optical and vibrational properties of Ti2FeNiSb2 and Ti2Ni2InSb double half heusler alloys. Materials Science in Semiconductor Processing, 2021, 123, 105531.	1.9	18
25	A first-principle study of Os-based compounds: Electronic structure and vibrational properties. Journal of Physics and Chemistry of Solids, 2016, 96-97, 121-127.	1.9	17
26	Electronic and Magnetic Structure and Elastic and Thermal Properties of Mn2-Based Full Heusler Alloys. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3915-3926.	0.8	17
27	Structural, electronic, magnetic and thermoelectric properties of inverse Heusler alloys Ti₂CoSi, Mn₂CoAl and Cr₂ZnSi by employing Ab initio calculations. Philosophical Magazine, 2020, 100, 1636-1661.	0.7	17
28	Tellurium Doping and the Structural, Electronic, and Optical Properties of NaYS_{2(1â€“x)}Te_{2x}Alloys. ACS Omega, 2019, 4, 11320-11331.	1.6	15
29	Electronic structure, magnetic and optic properties of spinel compound NiFe₂O₄. Semiconductor Science and Technology, 2020, 35, 095013.	1.0	15
30	Electronic Properties of AlxGa1?xAsySb1?y Alloys Lattice-Matched to InAs. Physica Status Solidi (B): Basic Research, 2001, 226, 293-304.	0.7	14
31	Optical properties of the alkaline-earth fluorohalides matlockite-type structure SrFX (X=Cl, Br, I) compounds. Physica B: Condensed Matter, 2008, 403, 711-716.	1.3	14
32	A DFT study of the electronic and magnetic properties of Fe2MnSi1â^'xGex alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 3345-3350.	1.0	14
33	Influence of varying Germanium content on the optical function dispersion of Fe2MnSixGe1â^'x: An ab initio study. Journal of Magnetism and Magnetic Materials, 2013, 326, 210-216.	1.0	14
34	Electronic Structure, Elastic and Optical Properties of AEuS 2 (Aâ€‰=â€‰Na,â€‰K, Rb, and Cs) Ternary Sulfides: Firstâ€Principles Study. Physica Status Solidi (B): Basic Research, 2019, 256, 1900136.	0.7	14
35	Energy band gaps of Zn1â^'xMgxSySe1â^'y lattice matched to GaAs. Physica B: Condensed Matter, 2003, 337, 363-368.	1.3	13
36	ENERGY BAND-GAPS OF MgxZn1-xSe: VIOLATION OF VEGARD'S LAW. International Journal of Modern Physics B, 2004, 18, 137-142.	1.0	13

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37	Electronic and positronic properties of Al1â^'xInxN with zincblende structure. Physica B: Condensed Matter, 2002, 324, 72-81.	1.3	11
38	Structural, electronic and vibrational properties of ordered intermetallic alloys CoZ (Zâ€‰=â€‰Al, Be, Sc) Tj ETQq0 0 0 rgBT /Overlock	0.7	11
39	Structural, elastic, electronic and thermoelectric properties of XPN₂ (X =) Tj ETQq1 1 0.784314 rgBT /Over	1.0	11
40	Magnetic semiconductor properties of RbLnSe2 (LnÂ=ÂCe, Pr, Nd, Gd): A density functional study. Journal of Magnetism and Magnetic Materials, 2020, 501, 166448.	1.0	11
41	Density Functional Theory Investigation of Physical Properties of KCrZ (Zâ€‰=â€‰S, Se, Te) Halfâ€Heusler Alloys. Physica Status Solidi (B): Basic Research, 2021, 258, 2100039.	0.7	11
42	Predicted electronic properties of zinc-blende Zn1â^'xMgxSe alloys. Materials Chemistry and Physics, 2004, 84, 273-278.	2.0	10
43	Dynamical effective charges and dielectric constants in the pentanary alloy GaxIn1â^'xPySbzAs1â^'yâ^'z lattice matched to InAs and GaSb. Materials Letters, 2006, 60, 39-43.	1.3	10
44	Electronic Properties of the Alloy System GaxIn1-xPySbzAs1-y-z Lattice Matched to InAs. Physica Status Solidi (B): Basic Research, 2002, 231, 403-410.	0.7	9
45	Electron and positron band structure and related properties in Zn1â^'xMgxSySe1â^'y lattice matched to GaAs. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 131, 162-168.	1.7	9
46	The influence of the lattice relaxation on the optical properties of GaNxAs1â^'x alloys. Solar Energy, 2013, 90, 134-143.	2.9	9
47	Elastic, mechanical, anisotropic, optical and magnetic properties of V₂NiSb Heusler alloy. Physica Scripta, 2021, 96, 035807.	1.2	9
48	The study of structural, electronic and thermoelectric properties of Ca1â^'xYbxZn2Sb2 (x = 0, 0.25, 0.5,) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	9
49	Electronic structure, optical and thermodynamic properties of ternary hydridesMBeH₃(M= Li, Na, and K). Canadian Journal of Physics, 2016, 94, 865-876.	0.4	8
50	Electronic structure and optical properties of complex hydrides <scp>LiBH4</scp> and <scp>NaAlH4</scp> compounds. International Journal of Energy Research, 2019, 43, 3653-3667.	2.2	8
51	Optical properties of alkaline-earth fluorohalides BaFX (X=Cl, Br, I) compounds. Solid-State Electronics, 2007, 51, 1133-1138.	0.8	7
52	Electronic structure, phase stability, vibrational and thermodynamic properties of the ternary Nowotny-Juza materials LiMgSb and LiZnSb. Physica B: Condensed Matter, 2017, 519, 39-52.	1.3	7
53	Ab-initio investigations of the structural, electronic, magnetic and mechanical properties of CrX (X = As, Sb, Se, and Te) transition metal pnictides and chalcogenides. Physica Scripta, 2019, 94, 015701.	1.2	7
54	Ab Initio Full-Potential Study of the Structural, Electronic, and Magnetic Properties of the Cubic Sr0.75Ti0.25X (X = S, Se, and Te) Ternary Alloys. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3263-3272.	0.8	7

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55	The effect of the phase transition on the optical properties of the lanthanum monopnictide compounds. Journal of Physics Condensed Matter, 2008, 20, 325207.	0.7	6
56	The structural, electronic, optical, thermodynamical and thermoelectric properties of the BiAlSe compound for solar photovoltaic semiconductors. Materials Science in Semiconductor Processing, 2022, 141, 106415.	1.9	6
57	Theoretical prediction of the structural and electronic properties of pseudocubic X3As4 (X=C, Si, Ge) Tj ETQq1 1 0.784314 rgBT /Over	1.3	5
58	A study of the phase transitions, electronic structures and thermodynamic properties of Mg 2 X (XÂ=ÂGe, Si and Sn) under high pressure. Journal of Science: Advanced Materials and Devices, 2017, 2, 105-114.	1.5	5
59	Investigation of the structural, electronic, elastic and thermodynamic properties of Curium Monopnictides: An abÂinitio study. International Journal of Modern Physics B, 2017, 31, 1750226.	1.0	5
60	First principle study of structural, elastic and electronic properties of APt3 (A=Mg, Sc, Y and Zr). Philosophical Magazine, 2018, 98, 408-421.	0.7	5
61	Effect of Structure on the Electronic, Magnetic and Thermal Properties of Cubic Fe2MnxNi1â^'xSi Heusler Alloys. Journal of Electronic Materials, 2019, 48, 337-351.	1.0	5
62	Investigating the Magnetic, Mechanical, Electronic, Optical, and Anisotropic Properties of ZrCoFeX (Xâ€‰=â€‰Si, Ge) Quaternary Heusler Alloys via First Principles. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1173-1182.	0.8	5
63	Characterization of quaternary Heusler alloys CoFeYGe (Y Â=â€‰Ti, Cr) with respect to structural, electronic, magnetic, mechanical, and thermoelectric features. International Journal of Energy Research, 2022, 46, 13855-13873.	2.2	5
64	Optical properties of some laves phases compounds. Current Opinion in Solid State and Materials Science, 2008, 12, 39-43.	5.6	4
65	Electronic band structures of AV2(A = Ta, Ti, Hf and Nb) Laves phase compounds. Journal of Physics Condensed Matter, 2009, 21, 025502.	0.7	4
66	Theoretical Investigation of Structural, Electronic, Magnetic, and Mechanical Properties of Quaternary Heusler Alloys CoVTiX (X = As, Si). Journal of Superconductivity and Novel Magnetism, 2018, 31, 3625-3636.	0.8	4
67	Cation distribution effect on electronic, magnetic structure and optic properties in cobalt ferrites (Co _{1â^'y} Fe _y)_{Tet}(Co) Tj ETQq1 1 0.784314 rgBT /C with disordered spinel structure. Physica Scripta, 2020, 95, 105801.	1.2	4
68	Materials Science Communication The alloying effect on positron states in Si1xGex. Materials Chemistry and Physics, 1998, 53, 179-184.	2.0	3
69	FP-LAPW+lo calculations of half-metallic ferromagnetism in Chromium-doped rock-salt calcium selenide (CaSe). Materials Research Express, 2019, 6, 116112.	0.8	3
70	Electronic structure and magnetic properties of manganese-based MnAs1â^'xPx ternary alloys. Journal of Magnetism and Magnetic Materials, 2019, 469, 329-341.	1.0	3
71	First-principles investigation of the structural, electronic, magnetic, thermodynamic and optical properties of the cubic Sr1-xMnxS ternary alloys. Computational Condensed Matter, 2020, 23, e00458.	0.9	3
72	RbCeX2 Crystal (X = S, Se, Te): Pressure-Induced Spin-Selective Gapless Transition and Response Properties. Journal of Alloys and Compounds, 2022, 898, 162760.	2.8	3

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73	The elastic, mechanical, and thermodynamic properties of NaXH (X = B, Al) intended for the storage of hydrogen: An ab-initio study. Physica B: Condensed Matter, 2022, 638, 413851.	1.3	3
74	Prediction of the electronic structure, optical and vibrational properties of ScXCo2Sb2 (Xâ€‰=â€‰V, Nb and) Tj ETQq0 0 0 rgBT /Over	0.9	3
75	Theoretical investigations of Co2Mn1-Cr Sn and Co2MnSn1-Si pseudo-ternary alloys: First principles calculations. Journal of Magnetism and Magnetic Materials, 2015, 393, 139-145.	1.0	2
76	Specific features of electronic structure and linear optical properties of some pseudocubic compounds. Computational Materials Science, 2010, 48, 326-335.	1.4	1
77	Investigation of electronic structure and thermodynamic properties of quaternary Li-containing chalcogenide diamond-like semiconductors. Semiconductor Science and Technology, 2016, 31, 125015.	1.0	1
78	Ab initio study of the fundamental properties of $$hbox {Zn}_{1-x} hbox {TM}_{x} hbox {Se}$$ (TM$$=$$Mn, Co and Fe). Pramana - Journal of Physics, 2019, 93, 1.	0.9	1
79	Effect of octahedral cation on electronic, magnetic and optic properties of CoX₂O₄ (Xâ€‰=â€‰Cr, Mn and Fe) spinel compound. Philosophical Magazine, 2022, 102, 166-188.	0.7	1
80	First-principles calculations of the high-pressure behavior, electronic, magnetic, and elastic properties of praseodymium pnictides: PrX (XÂ=ÂP, As and Bi). Journal of Magnetism and Magnetic Materials, 2022, 546, 168919.	1.0	1
81	Effect of Ga excess concentration on the structural, electronic, magnetic, elastic and thermoelectric properties of Fe2â^'xNiGa1+x Heusler alloys: results of FP-LAPW calculations. European Physical Journal Plus, 2021, 136, 1.	1.2	0