Fouad El Haj Hassan

List of Publications by Year
in descending order

94	2,291	172207	243296
papers	citations	29 h-index	44 g-index

94	94	94	1359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative study of the fundamental properties of Ga2O3 polymorphs. Journal of Solid State Chemistry, 2022, 312, 123272.	1.4	3
2	Tuning the hybrid borophenеâ”/graphene-ionic liquid interface: Effect of metal cations on the electronic and photonic properties. Journal of Molecular Liquids, 2021, 321, 114759.	2.3	7
3	Electrical conductivity and impedance calculated beyond Ï„-approximation. Indian Journal of Physics, 2021, 95, 433-437.	0.9	0
4	Skyrmion based random bit generator. Physica B: Condensed Matter, 2020, 579, 411900.	1.3	10
5	Electronic and optical properties of borophene and graphene with an adsorbed ionic liquid: A density functional theory study. Journal of Molecular Liquids, 2020, 316, 113803.	2.3	11
6	Water-silanol interactions on the amorphous silica surface: A dispersion-corrected DFT investigation. Journal of Molecular Liquids, 2020, 320, 114496.	2.3	6
7	Imprinting isolated single iron atoms onto mesoporous silica by templating with metallosurfactants. Journal of Colloid and Interface Science, 2020, 573, 193-203.	5.0	17
8	First-principles calculations to investigate half-metallic ferromagnetism in Zn_{0.50}Ti_{0.50}S alloy by using DFTâ€‰+â€‰U calculations. Philosophical Magazine, 2019, 99, 3000-3014.	0.7	2
9	Comparative studies for the physical properties of superconducting (BaSnO₃)_x(Bi,Pb)-2223 samples determined from excess conductivity and thermoelectric power analysis. Materials Research Express, 2019, 6, 096001.	0.8	10
10	Atomistic description of phenol, CO and H2O adsorption over crystalline and amorphous silica surfaces for hydrodeoxygenation applications. Applied Surface Science, 2019, 494, 721-730.	3.1	23
11	Ab initio study of the adsorption of Potassium on B, N, and BN-doped graphene heterostructure. Materials Today Communications, 2019, 21, 100676.	0.9	6
12	Fundamental properties of scandium chalcogenides and their alloys: DFT study. Indian Journal of Physics, 2019, 93, 1129-1135.	0.9	3
13	ab-initio investigations of electronic and magnetic properties of the tetragonal chalcopyrite BeTiTe2 compound: DFTâ€‰+â€‰U study. Philosophical Magazine, 2019, 99, 2185-2197.	0.7	0
14	Structural, electronic, optical and thermal properties of CuXTe₂ (X=Al, Ga, In) compounds: An ab-initio study. International Journal of Modern Physics B, 2019, 33, 1950045.	1.0	4
15	Study of Structural, Electronic, and Magnetic Properties of Cubic Lanthanide Based on Oxide Perovskite-Type NdGaO3. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2149-2154.	0.8	9
16	Theoretical investigation of the structural stabilities, optoelectronic properties and thermodynamic characteristics of GaPxSb1â”x ternary alloys. Indian Journal of Physics, 2018, 92, 705-714.	0.9	9
17	Comparative study of structural and electronic properties of GaSe and InSe polytypes. Journal of Chemical Physics, 2018, 149, 054106.	1.2	35
18	First-Principle Calculations of Fundamental Properties of AgGaTe₂, AgInTe₂ and Their Mixed Crystals AgIn_{1â€“x}Ga_xTe₂. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 1214-1221.	0.1	0

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19	Competing structures in (In,Ga)Se and (In,Ga)2 Se3 semiconductors. Physica Status Solidi (B): Basic Research, 2017, 254, 1700120.	0.7	6
20	Phase stability and electronic behavior of MgS, MgSe and MgTe compounds. Phase Transitions, 2017, 90, 929-941.	0.6	26
21	Ab initiocalculations of the structural, electronic, thermodynamic and thermal properties of BaSe_{1â^'x}Te_xalloys. Physica Scripta, 2017, 92, 105701.	1.2	8
22	Fundamental properties of zinc-blende AlSb, BSb and their Al1-xBxSb ternary alloys. Chinese Journal of Physics, 2017, 55, 1092-1102.	2.0	6
23	First-Principles Study on the Structural, Electronic, Magnetic and Thermodynamic Properties of Full Heusler Alloys Co2VZ (ZÂ=ÂAl, Ga). Journal of Electronic Materials, 2017, 46, 130-142.	1.0	34
24	Near-forward/high-pressure-backward Raman study of Zn_{1â€‰â^'â€‰x} Be _x Se (x â€‰~â€‰0.5) - evidence for percolation behavior of the long (Znâ€•Se) bond. Journal of Raman Spectroscopy, 2016, 47, 357-367.	1.2	5
25	Crystal structure and energy bands of (Ga/In)Se and Cu(In,Ga)Se₂ semiconductors in comparison. Physica Status Solidi (B): Basic Research, 2016, 253, 1472-1475.	0.7	16
26	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
27	Size and thickness effect on magnetic structures of maghemite hollow magnetic nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	8
28	Ab initio calculations of fundamental properties of SrTe1â^'x O x alloys. Bulletin of Materials Science, 2016, 39, 827-835.	0.8	5
29	Ab initio study of structural, mechanical, thermal and electronic properties of perovskites Sr(Li,Pd)H₃. International Journal of Modern Physics B, 2016, 30, 1650003.	1.0	8
30	First-principle calculations of the fundamental properties of CuBrxI1â^'xternary alloy. Molecular Physics, 2015, 113, 3637-3644.	0.8	2
31	Phase stability and electronic properties of silver halides. Phase Transitions, 2015, 88, 357-367.	0.6	4
32	Structural, electronic, magnetic and thermodynamic properties of full-Heusler compound Co2VSi: Ab initio study. Journal of Magnetism and Magnetic Materials, 2015, 381, 65-69.	1.0	29
33	First-principle calculations of the structural, electronic, thermodynamic and thermal properties of ZnS x Se1â^'x ternary alloys. Bulletin of Materials Science, 2015, 38, 365-372.	0.8	16
34	First-principles calculations of the structural, electronic and optical properties of In1â^'xBxAsyP1â^'y quaternary alloys lattice matched to InP and BeS. Materials Science in Semiconductor Processing, 2015, 36, 27-35.	1.9	5
35	Magnetic ordering and electronic structure of the ternary iron arsenide BaFe2As2. International Journal of Modern Physics B, 2015, 29, 1550182.	1.0	0
36	FIRST PRINCIPLES CALCULATIONS OF STRUCTURAL, ELECTRONIC, THERMODYNAMIC AND THERMAL PROPERTIES OF BaxSr1-xTe TERNARY ALLOYS. International Journal of Modern Physics B, 2014, 28, 1450041.	1.0	2

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37	First principle investigation of mercury chalcogenides and their HgSxSe1â^'x and HgSxTe1â^'x ternary alloys. Computational Materials Science, 2014, 83, 107-113.	1.4	22
38	Mutual alloying of XAs (X=Ga, In, Al) materials: Tuning the optoelectronic and thermodynamic properties for solar energy applications. Solar Energy, 2014, 100, 1-8.	2.9	34
39	First principles calculations of structural, electronic and thermal properties of lead chalcogenides PbS, PbSe and PbTe compounds. Bulletin of Materials Science, 2014, 37, 1159-1166.	0.8	15
40	Ab initio study of the structural, electronic, phase diagram, and thermal properties of cadium beryllium selenide mixed crystals. Materials Science in Semiconductor Processing, 2014, 26, 642-648.	1.9	6
41	Study of wurtzite and zincblende GaN/InN based solar cells alloys: First-principles investigation within the improved modified Beckeâ€"Johnson potential. Solar Energy, 2014, 107, 543-552.	2.9	44
42	First principles calculations of structural, electronic and optical properties of Zn1â^'xBexSeyTe1â^'y quaternary alloys. Computational Materials Science, 2014, 87, 202-208.	1.4	1
43	Theoretical prediction of the structural, electronic, and thermal properties of Al1â^'xBxAs ternary alloys. Materials Science in Semiconductor Processing, 2013, 16, 2063-2069.	1.9	10
44	STRUCTURAL, ELECTRONIC, THERMODYNAMIC AND THERMAL PROPERTIES OF ZINC-BLENDE InP, InAs AND THEIR InAs_x P_{1-x} TERNARY ALLOYS VIA FIRST PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2013, 27, 1350166.	1.0	16
45	Theoretical calculations of the high-pressure phases of SnO2. Computational Materials Science, 2013, 72, 86-92.	1.4	32
46	Structural, electronic and thermodynamic properties of SrxCd1â^'xO: A first-principles study. Materials Science in Semiconductor Processing, 2013, 16, 1853-1858.	1.9	5
47	Density functional calculations of Pb1â^'xCaxSySe1â^'y alloys lattice matched to different substrates. Journal of Physics and Chemistry of Solids, 2012, 73, 608-613.	1.9	9
48	STRUCTURAL, ELECTRONIC, OPTICAL AND THERMODYNAMIC PROPERTIES OF PbS, PbSe AND THEIR TERNARY ALLOY PbS_{1-x}Se_x. Modern Physics Letters B, 2011, 25, 473-486.	1.0	9
49	First principles calculations of structural, electronic, optical and thermodynamic properties of PbS, SrS and their ternary alloys Pb1â^'Sr S. Computational Materials Science, 2011, 50, 1077-1082.	1.4	14
50	Theoretical study of structural, electronic, and thermal properties of CdS, CdSe and CdTe compounds. Computational Materials Science, 2011, 50, 1460-1466.	1.4	73
51	Theoretical study of structural, electronic and thermal properties of Zn1â^'Be S ternary alloy. Computational Materials Science, 2011, 50, 3080-3084.	1.4	14
52	First-principles study of the ternary semiconductor alloys (Ga,Al)(As,Sb). Journal of Alloys and Compounds, 2010, 499, 80-89.	2.8	52
53	Structural, electronic, optical and thermal properties of AlxGa1â^'xAsySb1â^'y quaternary alloys: First-principles study. Journal of Alloys and Compounds, 2010, 504, 559-565.	2.8	23
54	Density functional study of CdS1â€"xSex and CdS1â€"xTex alloys. Computational Materials Science, 2010, 48, 206-211.	1.4	31

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55	First principle investigation of AlAs and AlP compounds and ordered AlAs1â^'xPx alloys. Computational Materials Science, 2010, 50, 274-278.	1.4	35
56	Theoretical study of CuxAg1â^'xI alloys. Journal of Physics and Chemistry of Solids, 2009, 70, 1055-1061.	1.9	8
57	First-principles calculations on the origins of the gap bowing in InAs1â€“xPx alloys. Physica B: Condensed Matter, 2009, 404, 3435-3439.	1.3	10
58	Structural, electronic, thermodynamic and optical properties of SrS1â^'xOx mixed crystals. Physica B: Condensed Matter, 2009, 404, 4100-4105.	1.3	10
59	First principles investigation of barium chalcogenide ternary alloys. Computational Materials Science, 2009, 46, 376-382.	1.4	36
60	Ab initio investigations of calcium chalcogenide alloys. Journal of Alloys and Compounds, 2009, 485, 642-647.	2.8	17
61	First principle calculations of structural, electronic, thermodynamic and optical properties of Pb_{1â^'x}Ca_xS,Pb_{1â^'x}Ca_xSe and Pb_{1â^'x}Ca_xTe ternary alloys. Journal of Physics Condensed Matter, 2009, 21, 195401.	0.7	33
62	First principles study of structural and electronic properties of Be_x Zn_{1â€“x}S and Be_x Zn_{1â€“x}Te alloys. Physica Status Solidi (B): Basic Research, 2008, 245, 106-113.	0.7	26
63	Structural, electronic and optical properties of AgI under pressure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2502-2508.	0.9	19
64	Theoretical investigations on KClxBr1â^'x, KClxI1â^'x and KBrxI1â^'x: A first-principles study. Physica B: Condensed Matter, 2008, 403, 2773-2779.	1.3	1
65	FP-LAPW investigations of SrS_{1â^'x}Se_x, SrS_{1â^'x}Te_xand SrSe_{1â^'x}Te_xternary alloys. Journal of Physics Condensed Matter, 2008, 20, 445213.	0.7	23
66	First-principles investigations of the ground-state and excited-state properties of BeO polymorphs. Journal of Physics Condensed Matter, 2007, 19, 436216.	0.7	32
67	Theoretical study of IIIâ€“V yttrium compounds. Computational Materials Science, 2007, 39, 563-568.	1.4	45
68	Structural, electronic and thermodynamic properties of wide band gap MgxZn1â^'xO alloy. Computational Materials Science, 2007, 40, 66-72.	1.4	56
69	First-principles investigation of wide-gap quaternary alloys Zn1â^'xMgxSyTe1â^'y. Journal of Alloys and Compounds, 2007, 433, 306-312.	2.8	11
70	Structural, electronic and thermodynamic properties of magnesium chalcogenide ternary alloys. Journal of Physics Condensed Matter, 2007, 19, 386234.	0.7	22
71	Ab initio investigations of zinc chalcogenides semiconductor alloys. Physica B: Condensed Matter, 2007, 391, 363-370.	1.3	28
72	Computational study of AgCl and AgBr semiconductors. Physica B: Condensed Matter, 2007, 392, 309-317.	1.3	47

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73	First-principles study of rock-salt AgClxBr1â^'x alloys. Physica B: Condensed Matter, 2007, 396, 192-198.	1.3	16
74	Structural and electronic properties of Zn1â^'xMgxSySe1â^'y alloys. Materials Letters, 2007, 61, 1178-1182.	1.3	13
75	Ground state properties and structural phase transition of beryllium chalcogenides. Computational Materials Science, 2006, 35, 423-431.	1.4	82
76	First-principles elastic and bonding properties of barium chalcogenides. Computational Materials Science, 2006, 38, 362-368.	1.4	60
77	Density functional study ofZn1â^'xMgxSeyTe1â^'yquaternary semiconductor alloys. Physical Review B, 2006, 73, .	1.1	42
78	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
79	First-principles investigation of BNxP1â^'x, BNxAs1â^'x and BPxAs1â^'x ternary alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 121, 170-177.	1.7	113
80	Structural and electronic properties of BCC tellurium under high pressure. Physica B: Condensed Matter, 2005, 363, 82-87.	1.3	3
81	First-principles calculations on the origins of the gap bowing in BeSxSe1-x, BeSxTe1-x and BeSexTe1-x alloys. Physica Status Solidi (B): Basic Research, 2005, 242, 909-915.	0.7	59
82	First-principles study of BNxSb1-x, BPxSb1-x and BAsxSb1-x alloys. Physica Status Solidi (B): Basic Research, 2005, 242, 3129-3137.	0.7	35
83	FIRST-PRINCIPLES INVESTIGATION OF SnO2 AT HIGH PRESSURE. International Journal of Modern Physics B, 2005, 19, 4081-4092.	1.0	18
84	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
85	High pressure study of structural and electronic properties of calcium chalcogenides. Journal of Physics Condensed Matter, 2005, 17, 4083-4092.	0.7	116
86	Structural properties of boron compounds at high pressure. Journal of Physics Condensed Matter, 2004, 16, 293-301.	0.7	54
87	Structural and electronic properties of matlockite MFX (MSr, Ba, Pb; XCl, Br, I) compounds. Journal of Physics and Chemistry of Solids, 2004, 65, 1871-1878.	1.9	66
88	Theoretical study of structural and electronic properties of CaFI. Journal of Physics Condensed Matter, 2004, 16, 3329-3337.	0.7	30
89	Application of the full-potential linear augmented-plane-wave method to the study of electronic properties in semiconductors with d valence electrons. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 791-800.	0.6	11
90	First-principles analysis of Cx(BN)1â^'x ordered alloy. Superlattices and Microstructures, 2002, 32, 91-97.	1.4	8

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91	Full potential linearized augmented plane wave calculations of structural and electronic properties of BN, BP, BAs and BSb. Journal of Physics Condensed Matter, 2001, 13, 253-262.	0.7	142
92	Structural properties of copper halides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 87, 40-47.	1.7	54
93	Electronic structure of CuClxBr1â^'x, CuClxI1â^'xand CuBrxI1â^'xalloys. Superlattices and Microstructures, 2001, 30, 75-80.	1.4	21
94	Application of the full-potential linear augmented-plane-wave method to the study of electronic properties in semiconductors with d valence electrons. , 0, .		7