Hbouafia

List of Publications by Citations

33 papers	290 citations	11 h-index	16 g-index
33 ext. papers	333 ext. citations	2.6 avg, IF	3.21 L-index

#	Paper	IF	Citations
33	Structural, elastic, electronic and thermodynamic properties of KTaO3 and NaTaO3: Ab initio investigations. *Computational Materials Science*, **2013**, 75, 1-8	3.2	45
32	First-principles prediction of structural, elastic, electronic and thermodynamic properties of the cubic SrUO 3 -Perovskite. *Journal of Alloys and Compounds*, **2015**, 635, 163-172	5.7	33
31	First-principles study of mechanical, exchange interactions and the robustness in Co2MnSi full Heusler compounds. *Journal of Magnetism and Magnetic Materials*, **2017**, 422, 13-19	2.8	27
30	Structural, elastic, electronic and thermodynamic investigations of neptunium chalcogenides: First-principles calculations. *Chinese Journal of Physics*, **2016**, 54, 33-41	3.5	23
29	Theoretical investigation of structural, elastic, electronic, and thermal properties of KCaF3, K0.5Na0.5CaF3 and NaCaF3 Perovskites. *Superlattices and Microstructures*, **2015**, 82, 525-537	2.8	19
28	Pressure effect on mechanical stability and optoelectronic behavior of Zinc-Silicon Diarsenide ZnSiAs2-Chalcopyrite: DFT investigation. *Optik*, **2017**, 139, 315-327	2.5	17
27	Structural, mechanical, electronic and thermal properties of KZnF3 and AgZnF3 Perovskites: FP-(L)APW+lo calculations. *Solid State Sciences*, **2016**, 58, 1-13	3.4	17
26	Half-metallic properties and the robustness of Co 2 MnGe Heusler alloy under pressure: Ab-initio calculation. *Intermetallics*, **2016**, 68, 42-50	3.5	15
25	Study of hydrostatic pressure effect on structural, mechanical, electronic and optical properties of KMgF3, K0.5Na0.5MgF3 and NaMgF3 cubic fluoro-perovskites via ab□nitio calculations. *International Journal of Modern Physics B*, **2016**, 30, 1650230	1.1	13
24	Study of the ground-state magnetic ordering, magnetic and optoelectronic properties of (Lenaite) AgFeS2 in its chalcopyrite structure. *Journal of Magnetism and Magnetic Materials*, **2020**, 493, 165730	2.8	12
23	Magnetic ground state and pressure effect study on elasticity, electronic and magnetic properties of KUO3: DFT+U, GLLB-SC, mBJ and QTAIM investigations. *Solid State Sciences*, **2019**, 90, 56-67	3.4	11
22	Study of magnetic and optoelectronic properties of BaCmO3-Cubic Perovskite after the estimation of Hubbard interaction and Hund‧s exchange parameters: GW and DFT + U investigations. *Optik*, **2018**, 168, 196-207	2.5	10
21	Pressure effect on mechanical, magnetic and optoelectronic properties of SrCoO3-Perovskite: FP-(L)APW+lo investigation. *Chinese Journal of Physics*, **2019**, 59, 625-640	3.5	7
20	Insight into the role of weak interactions on optoelectronic properties of LiGaTe2-chalcopyrite under pressure effect: DFT-D3, NCI and QTAIM investigations. *Physica B: Condensed Matter*, **2020**, 599, 412463	2.8	6
19	Insight into elastic anisotropy, mechanical and dynamical stability, electronic properties, bonding and weak interactions analysis of LuAuSn Half-Heusler. *Solid State Sciences*, **2021**, 118, 106677	3.4	5
18	DFT + U and QTAIM Studies of Elastic, Magnetic, Bonding, and Optoelectronic Behaviors of RbUO3. *Journal of Superconductivity and Novel Magnetism*, **2019**, 32, 4005-4020	1.5	4
17	Study of structural, elastic, electronic and thermodynamic properties of NaAlO3-perovskite. *Physica B: Condensed Matter*, **2012**, 407, 2154-2159	2.8	4

16	Structural, Magnetic, and Optoelectronic Properties of CuMnSe2-Chalcopyrite: DFT + U and Hybrid Functional Investigation. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 1881-1893	1.5	4
15	Computational insights in predicting structural, mechanical, electronic, magnetic and optical properties of EuAlO3 cubic-perovskite using FP-LAPW method. *Computational Condensed Matter*, **2021**, 26, e00537	1.7	3
14	Elastic isotropy, magnetic and electronic properties, bonding and non-covalent interactions analyses of HoFe4P12 filled-skutterudite: DFT + U + SOC, QTAIM and NCI investigations. *Journal of Magnetism and Magnetic Materials*, **2021**, 518, 167435	2.8	3
13	Structural stability and electronic behaviors of Co1-xOsxSi and macroscopic magnetic susceptibilities of CoSi and OsSi: GGA-PBEsol, GW-approximation and QTAIM investigations. *Physica B: Condensed Matter*, **2018**, 530, 167-176	2.8	3
12	THE EFFECT OF DOPANT DOSE LOSS DURING ANNEALING ON HEAVILY DOPED SURFACE LAYERS OBTAINED BY RECOIL IMPLANTATION OF ANTIMONY IN SILICON. *Surface Review and Letters*, **2013**, 20, 1350038	1.1	2
11	FP-(L)APW + lo study of mechanical stability and electronic behavior of CoGe in B20 structure. *Materials Science-Poland*, **2017**, 35, 548-559	0.6	1
10	Magnetic ground state and optoelectronic properties of GdMg, GdMg2 and GdMg3 investigated by GGA+U calculations. *Optik*, **2018**, 172, 968-979	2.5	1
9	Pressure effect on mechanical stability and ground state optoelectronic properties of Li2S2 produced by LithiumSulfur batteries discharge: GGA-PBE, GLLB-SC and mBJ investigation. *Philosophical Magazine*, **2019**, 99, 2789-2817	1.6	1
8	Investigations of structural, elastic, electronic and thermodynamic properties of lutetium filled skutterudite LuFe4P12 under pressure effect: FP-LMTO method. *Materials Science-Poland*, **2015**, 33, 867-878	0.6	1
7	Chemical bonding, magnetic and electronic properties, mechanical and dynamical stabilities of DyOs4P12 filled-skutterudite: DFT and QTAIM insight. *Materials Chemistry and Physics*, **2022**, 278, 125684	4.4	1
6	Elastic anisotropy, electronic and magnetic behaviours of ferromagnetic Europium Niobate EuNbO3 in orthorhombic structure: DFT + U, MFA and QTAIM studies. *Philosophical Magazine*, **2020**, 100, 2889-2911	1.6	1
5	Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS2 and MgSe2 in Pa3? space group structure: Ab initio study. *Materials Science in Semiconductor Processing*, **2022**, 146, 106659	4.3	1
4	Computational insights into the structural, mechanical, optical, electronic and magnetic properties of EuTiO3 semiconductor in cubic-perovskite using FP-LAPW method. *Materials Science in Semiconductor Processing*, **2022**, 142, 106455	4.3	0
3	Hydrostatic Pressure Effect on Mechanical Stability and Optoelectronic Properties of MgGeAs2-Chalchopyrite. *Springer Proceedings in Energy*, **2020**, 287-294	0.2	
2	The Ground-State Properties of a New Full-Heusler Alloy Pd2MnPb: DFT+U, QTAIM, and MFA Investigations. *Acta Physica Polonica A*, **2020**, 137, 1101-1109	0.6	
1	Study of phase transitions and lattice dynamics, elastic and electronic properties, bonding and weak interactions analysis of YCuS2 in P212121, I4?2d and P. *Journal of Physics and Chemistry of Solids*, **2022**, 167, 110756	3.9	