

Hbouafia

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.

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	Chemical bonding, magnetic and electronic properties, mechanical and dynamical stabilities of DyOs ₄ P ₁₂ filled-skutterudite: DFT and QTAIM insight. <i>Materials Chemistry and Physics</i> , 2022 , 278, 125684	4.4	1
32	Computational insights into the structural, mechanical, optical, electronic and magnetic properties of EuTiO ₃ semiconductor in cubic-perovskite using FP-LAPW method. <i>Materials Science in Semiconductor Processing</i> , 2022 , 142, 106455	4.3	0
31	Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS ₂ and MgSe ₂ in Pa $\bar{3}$ space group structure: Ab initio study. <i>Materials Science in Semiconductor Processing</i> , 2022 , 146, 106659	4.3	1
30	Study of phase transitions and lattice dynamics, elastic and electronic properties, bonding and weak interactions analysis of YCuS ₂ in P2 ₁ 2 ₁ 2 ₁ , I4 ₁ 2d and P. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 167, 110756	3.9	
29	Computational insights in predicting structural, mechanical, electronic, magnetic and optical properties of EuAlO ₃ cubic-perovskite using FP-LAPW method. <i>Computational Condensed Matter</i> , 2021 , 26, e00537	1.7	3
28	Elastic isotropy, magnetic and electronic properties, bonding and non-covalent interactions analyses of HoFe ₄ P ₁₂ filled-skutterudite: DFT + U + SOC, QTAIM and NCI investigations. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 518, 167435	2.8	3
27	Insight into elastic anisotropy, mechanical and dynamical stability, electronic properties, bonding and weak interactions analysis of LuAuSn Half-Heusler. <i>Solid State Sciences</i> , 2021 , 118, 106677	3.4	5
26	Hydrostatic Pressure Effect on Mechanical Stability and Optoelectronic Properties of MgGeAs ₂ -Chalcopyrite. <i>Springer Proceedings in Energy</i> , 2020 , 287-294	0.2	
25	The Ground-State Properties of a New Full-Heusler Alloy Pd ₂ MnPb: DFT+U, QTAIM, and MFA Investigations. <i>Acta Physica Polonica A</i> , 2020 , 137, 1101-1109	0.6	
24	Insight into the role of weak interactions on optoelectronic properties of LiGaTe ₂ -chalcopyrite under pressure effect: DFT-D3, NCI and QTAIM investigations. <i>Physica B: Condensed Matter</i> , 2020 , 599, 412463	2.8	6
23	Elastic anisotropy, electronic and magnetic behaviours of ferromagnetic Europium Niobate EuNbO ₃ in orthorhombic structure: DFT + U, MFA and QTAIM studies. <i>Philosophical Magazine</i> , 2020 , 100, 2889-2911	1.6	1
22	Study of the ground-state magnetic ordering, magnetic and optoelectronic properties of (Lenaite) AgFeS ₂ in its chalcopyrite structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165730	2.8	12
21	Magnetic ground state and pressure effect study on elasticity, electronic and magnetic properties of KUO ₃ : DFT+U, GLLB-SC, mBJ and QTAIM investigations. <i>Solid State Sciences</i> , 2019 , 90, 56-67	3.4	11
20	Pressure effect on mechanical, magnetic and optoelectronic properties of SrCoO ₃ -Perovskite: FP-(L)APW+lo investigation. <i>Chinese Journal of Physics</i> , 2019 , 59, 625-640	3.5	7
19	Pressure effect on mechanical stability and ground state optoelectronic properties of Li ₂ S ₂ produced by LithiumSulfur batteries discharge: GGA-PBE, GLLB-SC and mBJ investigation. <i>Philosophical Magazine</i> , 2019 , 99, 2789-2817	1.6	1
18	DFT + U and QTAIM Studies of Elastic, Magnetic, Bonding, and Optoelectronic Behaviors of RbUO ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 4005-4020	1.5	4
17	Study of magnetic and optoelectronic properties of BaCmO ₃ -Cubic Perovskite after the estimation of Hubbard interaction and Hund's exchange parameters: GW and DFT + U investigations. <i>Optik</i> , 2018 , 168, 196-207	2.5	10

16	Magnetic ground state and optoelectronic properties of GdMg, GdMg ₂ and GdMg ₃ investigated by GGA+U calculations. <i>Optik</i> , 2018 , 172, 968-979	2.5	1
15	Structural stability and electronic behaviors of Co _{1-x} Os _x Si and macroscopic magnetic susceptibilities of CoSi and OsSi: GGA-PBEsol, GW-approximation and QTAIM investigations. <i>Physica B: Condensed Matter</i> , 2018 , 530, 167-176	2.8	3
14	Structural, Magnetic, and Optoelectronic Properties of CuMnSe ₂ -Chalcopyrite: DFT + U and Hybrid Functional Investigation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1881-1893	1.5	4
13	Pressure effect on mechanical stability and optoelectronic behavior of Zinc-Silicon Diarsenide ZnSiAs ₂ -Chalcopyrite: DFT investigation. <i>Optik</i> , 2017 , 139, 315-327	2.5	17
12	FP-(L)APW + lo study of mechanical stability and electronic behavior of CoGe in B20 structure. <i>Materials Science-Poland</i> , 2017 , 35, 548-559	0.6	1
11	First-principles study of mechanical, exchange interactions and the robustness in Co ₂ MnSi full Heusler compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 13-19	2.8	27
10	Half-metallic properties and the robustness of Co ₂ MnGe Heusler alloy under pressure: Ab-initio calculation. <i>Intermetallics</i> , 2016 , 68, 42-50	3.5	15
9	Study of hydrostatic pressure effect on structural, mechanical, electronic and optical properties of KMgF ₃ , K _{0.5} Na _{0.5} MgF ₃ and NaMgF ₃ cubic fluoro-perovskites via ab-initio calculations. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650230	1.1	13
8	Structural, mechanical, electronic and thermal properties of KZnF ₃ and AgZnF ₃ Perovskites: FP-(L)APW+lo calculations. <i>Solid State Sciences</i> , 2016 , 58, 1-13	3.4	17
7	Structural, elastic, electronic and thermodynamic investigations of neptunium chalcogenides: First-principles calculations. <i>Chinese Journal of Physics</i> , 2016 , 54, 33-41	3.5	23
6	First-principles prediction of structural, elastic, electronic and thermodynamic properties of the cubic SrUO ₃ -Perovskite. <i>Journal of Alloys and Compounds</i> , 2015 , 635, 163-172	5.7	33
5	Theoretical investigation of structural, elastic, electronic, and thermal properties of KCaF ₃ , K _{0.5} Na _{0.5} CaF ₃ and NaCaF ₃ Perovskites. <i>Superlattices and Microstructures</i> , 2015 , 82, 525-537	2.8	19
4	Investigations of structural, elastic, electronic and thermodynamic properties of lutetium filled skutterudite LuFe ₄ P ₁₂ under pressure effect: FP-LMTO method. <i>Materials Science-Poland</i> , 2015 , 33, 867-878	0.6	1
3	Structural, elastic, electronic and thermodynamic properties of KTaO ₃ and NaTaO ₃ : Ab initio investigations. <i>Computational Materials Science</i> , 2013 , 75, 1-8	3.2	45
2	THE EFFECT OF DOPANT DOSE LOSS DURING ANNEALING ON HEAVILY DOPED SURFACE LAYERS OBTAINED BY RECOIL IMPLANTATION OF ANTIMONY IN SILICON. <i>Surface Review and Letters</i> , 2013 , 20, 1350038	1.1	2
1	Study of structural, elastic, electronic and thermodynamic properties of NaAlO ₃ -perovskite. <i>Physica B: Condensed Matter</i> , 2012 , 407, 2154-2159	2.8	4