

Gboyega A Adebayo

List of Publications by Year in descending order

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papers

403
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840776

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62
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62
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of guest atoms on structural properties, electronics structure and optical spectra of $B_xCo_{4-x}Sb_{12}$ ($X = 0$ or 1 , $B = Fe$ or Al) skutterudites. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106340.	4.0	0
2	Electronic, Structural, Mechanical, and Thermodynamic Properties of $CoYSb$ ($Y = Cr, Mo, W$) Half-Heusler Compounds as Potential Spintronic Materials. <i>Solids</i> , 2022, 3, 22-33.	2.4	10
3	First principle calculations of the structural, elastic, electronic and transport properties of $XRuAs$ ($X = Ta$ and V). <i>Materials Science in Semiconductor Processing</i> , 2022, 148, 106837.	4.0	4
4	Predicting the band structure, transport properties, electronic fitness function and effective mass of $PdTiSn$ indirect band-gap half-Heusler semiconductor. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105548.	4.0	4
5	Electronic fitness function, effective mass and thermoelectric properties of Rh-based ($-ScTe$; $-TiSb$) Tj ETQq1 1 0.784314 rgBT /Overlook e00523.	2.1	6
6	Band structure and absorption spectra of NH_4X_13 ($X = Pb, Mg$) based hybrid Perovskite for UV ray protector and electrochromic materials applications. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 151, 109860.	4.0	4
7	Exploring the electronic fitness function, effective mass, elastic and transport properties of $RhTiP$ Half-Heusler alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 264, 114987.	3.5	7
8	Thermoelectric and mechanical properties of $XHfSn$ ($X=Ni, Pd$ and Pt) semiconducting Half-heusler alloys: A first-principles study. <i>Computational Condensed Matter</i> , 2021, 26, e00539.	2.1	13
9	Investigation of the thermoelectric properties of Lithium-Aluminium-Silicide ($LiAlSi$) compound from first-principles calculations. <i>Computational Condensed Matter</i> , 2021, 27, e00551.	2.1	10
10	Assessing the structural, electronic, elastic and thermoelectric properties of $PtTiSn$ and $PdLaBi$ transition metal alloys from the first-principles prospective. <i>Materials Science in Semiconductor Processing</i> , 2021, 129, 105796.	4.0	3
11	The effective mass, fitness function and enhanced thermoelectric properties in $CuSbS_2$ for p-type thermoelectric material applications: Density functional theory approach. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115404.	3.5	4
12	Skutterudite materials; $AlyFexCo_{4-x}ySb_{12}$ ($x = y = 1$; $x = 2, y = 1$) for spintronics and optoelectronics applications. <i>Computational Condensed Matter</i> , 2021, 29, e00613.	2.1	0
13	Bandgap Correction and Spin-Orbit Coupling Induced Absorption Spectra of Dimethylammonium Lead Iodide for Solar Cell Absorber. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	1
14	Unraveling the Stable Phase, High Absorption Coefficient, Optical and Mechanical Properties of Hybrid Perovskite $CH_3NH_3Pb_xMg_{1-x}I_3$: Density Functional Approach. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 299-309.	3.7	16
15	Band structure, thermoelectric properties, effective mass and electronic fitness function of two newly discovered 18 valence electrons stable half-Heusler $TaX(X=Co, Ir)Sn$ semiconductors: A density functional theory approach. <i>Solid State Sciences</i> , 2020, 100, 106096.	3.2	4
16	Lattice dynamics and thermodynamic investigation of $MNiSn$ ($M=Hf, Ti$ and Zr) Half-Heusler compounds: Density functional theory approach. <i>Materials Today Communications</i> , 2020, 22, 100671.	1.9	5
17	Design and theoretical study of phenothiazine-based low bandgap dye derivatives as sensitizers in molecular photovoltaics. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	16
18	Structural evolution, electronic and physicochemical properties of tin ozonide nanoclusters: a density functional theory perspective. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	0

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19	First-principles perspective on structural evolution, sequential lithiation and physicochemical properties of tin oxide nanoclusters: Sn ₃ O _z and Li _x Sn ₃ O _z ($x \in \{1-10\}$ and $z \in \{0, 3-7\}$). <i>Materials Today Communications</i> , 2020, 24, 101026.	1.9	0
20	Predicting the stable Type-I phase of $\langle \text{M} \rangle \langle \text{X} \rangle \langle \text{M} \rangle \langle \text{M} \rangle \langle \text{n} \rangle \langle \text{S} \rangle \langle \text{b} \rangle$ (X= Co, Fe, Os) compounds and its thermodynamic, electronic and magnetic properties from first-principles calculations. <i>Solid State Sciences</i> , 2020, 105, 106208.	3.2	6
21	DFT GGA calculations of magnetic, elastic, thermodynamic and thermoelectric properties of Co ₂ YAl (Y= Ti, V) full Heusler alloy systems. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114739.	3.5	11
22	Thermoelectric properties, optimal doping levels and high figure of merit in Cobalt-based Half/Full Heusler alloys by First-Principles calculations. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 248, 114409.	3.5	3
23	Predicting the elastic, phonon and thermodynamic properties of cubic HfNiX (X = Ge and Sn) Half Heusler alloys: a DFT study. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	11
24	A density functional theory analysis of the mechanical and dynamic stability and thermodynamic properties of pyrite-type ZnSe ₂ and ZnTe ₂ . <i>Computational Condensed Matter</i> , 2019, 19, e00366.	2.1	0
25	Effects of Y atom substitution on the structural, magnetic, electronic, elastic, mechanical, thermodynamic and thermoelectric properties of Co ₂ YAl (Y= Cr, Mn) Full Heusler alloys from first principles investigations. <i>Computational Condensed Matter</i> , 2019, 21, e00412.	2.1	14
26	First principles comparative studies of thermoelectric and other properties in the cubic and hexagonal structure of CsCdCl ₃ halide perovskites. <i>Computational Condensed Matter</i> , 2019, 21, e00388.	2.1	8
27	First principle calculations of structural, electronic, optical and thermoelectric properties of tin (II) oxide. <i>Materials Research Express</i> , 2019, 6, 125915.	1.6	9
28	DFT investigation of elastic, mechanical, vibrational and thermodynamic properties of cadmium dichalcogenides. <i>Physica B: Condensed Matter</i> , 2019, 552, 159-164.	2.7	7
29	CK-RAID: Collaborative Knowledge Repository for Intrusion Detection System. <i>Journal of Computing and Information Technology</i> , 2019, 27, 29-39.	0.3	0
30	First-principles calculations of dynamical and thermodynamic properties of cuprite doped with silver (Cu ₂ (1-x)Ag _{2x} O). <i>Materials Research Express</i> , 2018, 5, 045704.	1.6	5
31	First-principle survey of structural, electronic, and optical properties of zinc-blende $\langle \text{Al} \rangle \langle \text{Ga} \rangle \langle \text{B} \rangle \langle \text{x} \rangle$ <i>Materials Letters</i> , 2018, 221, 330-335.	2.6	2
32	Increased Malleability in Tetragonal Zr _x Ti _{1-x} O ₂ Ternary Alloys: First-Principles Approach. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 567-572.	1.5	1
33	Elastic constants and observed ferromagnetism in inverse Heusler alloy Ti ₂ CoAs using k _{paw} pseudopotentials: A first-principles approach. <i>Journal of Alloys and Compounds</i> , 2017, 722, 207-211.	5.5	10
34	Elastic constants and mechanical properties of PEDOT from first principles calculations. <i>Computational Materials Science</i> , 2017, 139, 234-242.	3.0	15
35	Ab initio study of phonon dispersion and thermodynamic properties of pure and doped pyrites. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	7
36	Structural, Electronic, Magnetic and Optical Properties of Ni,Ti/Al-based Heusler Alloys: A First-Principles Approach. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016, 71, 129-134.	1.5	7

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37	First-principles study of zinc-blende $B_xAl_{1-x}In_1yN$ quaternary alloy: Alchemical mixing approximation approach. International Journal of Modern Physics B, 2016, 30, 1650191.	2.0	1
38	Prediction of metallic and half-metallic structure and elastic properties of $Ti_{1-x}Fe_x$ alloys using first-principles calculations. Journal of Applied Physics, 2010, 108, 043512.	4.7	44
39	Physic First principles study of electronic structure, structural and optical properties of $Mg_3Si_2O_5(OH)_4$. Applied Clay Science, 2014, 93-94, 8-11.	5.2	6
40	Structural and elastic properties of strained $Mg_{1-x}SrxSe$ revealed. Solid State Communications, 2014, 178, 46-49.	1.9	1
41	Analysis and interpretation of Ibadan spring magnetic anomaly using the Mellin transform. Open Geosciences, 2013, 5, .	1.7	1
42	Ab initio calculations of optical properties of Li and K at high pressures. Journal of Physics and Chemistry of Solids, 2013, 74, 1221-1226.	4.0	2
43	ELECTRONIC AND ELASTIC PROPERTIES OF ZINC-BLENDE $MgSe$. International Journal of Modern Physics B, 2013, 27, 1350027.	2.0	5
44	First principles studies of band structure and electronic properties of ZnSe. Journal of Alloys and Compounds, 2012, 513, 294-299.	5.5	20
45	ANTISYNCHRONIZATION OF IDENTICAL AND NONIDENTICAL \hat{I}^{\dagger} VAN DER POL AND \hat{I}^{\dagger} DUFFING OSCILLATORS WITH BOTH PARAMETRIC AND EXTERNAL EXCITATIONS VIA BACKSTEPPING APPROACH. International Journal of Modern Physics B, 2011, 25, 1957-1969.	2.0	3
46	Adhesion energy, surface traction and surface tension in liquid xenon. Pramana - Journal of Physics, 2011, 77, 1151-1157.	1.8	1
47	Optical properties of revealed by ab initio calculations. Journal of Physics and Chemistry of Solids, 2010, 71, 1690-1693.	4.0	5
48	Collision frequency of Lennard-Jones fluids at high densities by equilibrium molecular dynamics simulation. Pramana - Journal of Physics, 2010, 75, 523-536.	1.8	5
49	Electronic structure and optical properties of from ab initio calculations. Physica B: Condensed Matter, 2010, 405, 4578-4581.	2.7	6
50	Generalized control and synchronization of chaos in RCL-shunted Josephson junction using backstepping design. Physica C: Superconductivity and Its Applications, 2010, 470, 558-564.	1.2	45
51	Mixing properties in the $In-Pb$ and $In-Mg$ liquid alloys. Physica B: Condensed Matter, 2010, 405, 880-887.	2.7	3
52	Infrared absorption of MgO at high pressures and temperatures: A molecular dynamic study. Journal of Chemical Physics, 2009, 131, 014506.	3.0	15
53	Thermodynamics and surface properties of liquid $Al-Ga$ and $Al-Ge$ alloys. Applied Physics A: Materials Science and Processing, 2009, 97, 533-541.	2.3	16
54	Adhesion Energy, Surface Traction and Surface Tension in Fe-Mg Binary Alloys. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 596-600.	1.5	1

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55	Correlation between bulk and surface properties in Rb-Pb liquid alloy. Journal of Molecular Liquids, 2006, 128, 90-95.	4.9	1
56	Dynamical properties of Ag-Cu binary alloy from molecular dynamics simulation. European Physical Journal B, 2006, 54, 423-427.	1.5	2
57	Structures and autocorrelation functions of liquid Al and Mg modelled via Lennard-Jones potential from molecular dynamics simulation. Pramana - Journal of Physics, 2005, 64, 269-279.	1.8	7
58	Structural properties of low-density liquid alkali metals. Pramana - Journal of Physics, 2005, 65, 1085-1096.	1.8	3
59	Structure, single-particle and many-particle coefficients of Lennard-Jones liquid Al. Pramana - Journal of Physics, 2005, 65, 339-347.	1.8	0
60	Influence of strong heterocoordination on surface properties of Li-Pb melts. Physics and Chemistry of Liquids, 2005, 43, 495-506.	1.2	4
61	Quasi-chemical studies of ordering in the Cu-Zr and Cu-Si melts. Journal of Alloys and Compounds, 2001, 329, 162-167.	5.5	11
62	Structural properties of undercooled liquid sodium and caesium. Pramana - Journal of Physics, 1999, 52, 631-645.	1.8	2