

Gboyega A Adebayo

List of Publications by Year in descending order

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times ranked

394

citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized control and synchronization of chaos in RCL-shunted Josephson junction using backstepping design. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 558-564.	1.2	45
2	First principles studies of band structure and electronic properties of ZnSe. <i>Journal of Alloys and Compounds</i> , 2012, 513, 294-299.	5.5	20
3	Thermodynamics and surface properties of liquid Al-Ga and Al-Ge alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 533-541.	2.3	16
4	Unraveling the Stable Phase, High Absorption Coefficient, Optical and Mechanical Properties of Hybrid Perovskite $\text{CH}_3\text{NH}_3\text{Pb}_x\text{Mg}_{1-x}\text{I}_3$: Density Functional Approach. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 299-309.	3.7	16
5	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
6	Infrared absorption of MgO at high pressures and temperatures: A molecular dynamic study. <i>Journal of Chemical Physics</i> , 2009, 131, 014506.	3.0	15
7	Elastic constants and mechanical properties of PEDOT from first principles calculations. <i>Computational Materials Science</i> , 2017, 139, 234-242.	3.0	15
8	Prediction of metallic and half-metallic structure and elastic properties of $\text{Fe}_{1-x}\text{Ti}_x$. <i>Computational Materials Science</i> , 2017, 139, 234-242.	3.0	15
9	Effects of Y atom substitution on the structural, magnetic, electronic, elastic, mechanical, thermodynamic and thermoelectric properties of Co_2YAl ($\text{Y} = \text{Cr}, \text{Mn}$) Full Heusler alloys from first principles investigations. <i>Computational Condensed Matter</i> , 2019, 21, e00412.	2.1	14
10	Thermoelectric and mechanical properties of XHfSn ($\text{X} = \text{Ni, Pd and Pt}$) semiconducting Half-heusler alloys: A first-principles study. <i>Computational Condensed Matter</i> , 2021, 26, e00539.	2.1	13
11	Quasi-chemical studies of ordering in the Cu-Zr and Cu-Si melts. <i>Journal of Alloys and Compounds</i> , 2001, 329, 162-167.	5.5	11
12	Predicting the elastic, phonon and thermodynamic properties of cubic HfNiX ($\text{X} = \text{Ge and Sn}$) Half Heulser alloys: a DFT study. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	11
13	DFT GGA calculations of magnetic, elastic, thermodynamic and thermoelectric properties of Co_2YAl ($\text{Y} = \text{Ti, V}$) full Heusler alloy systems. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114739.	3.5	11
14	Elastic constants and observed ferromagnetism in inverse Heusler alloy Ti_2CoAs using kjpaw pseudopotentials: A first-principles approach. <i>Journal of Alloys and Compounds</i> , 2017, 722, 207-211.	5.5	10
15	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
16	Electronic, Structural, Mechanical, and Thermodynamic Properties of CoYSb ($\text{Y} = \text{Cr, Mo, W}$) Half-Heusler Compounds as Potential Spintronic Materials. <i>Solids</i> , 2022, 3, 22-33.	2.4	10
17	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
18	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

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19	Structures and autocorrelation functions of liquid Al and Mg modelled via Lennard-Jones potential from molecular dynamics simulation. <i>Pramana - Journal of Physics</i> , 2005, 64, 269-279.	1.8	7
20	Structural, Electronic, Magnetic and Optical Properties of Ni _x 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
21	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
22	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
23	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
24	Electronic structure and optical properties of from ab initio calculations. <i>Physica B: Condensed Matter</i> , 2010, 405, 4578-4581.	2.7	6
25	First principles study of electronic structure, structural and optical properties of Mg ₃ Si ₂ O ₅ (OH)4. <i>Applied Clay Science</i> , 2014, 93-94, 8-11.	5.2	6
26	Predicting the stable Type-I phase of $\text{M}_\text{X}\text{Si}_1\text{.}x\text{O}_3$ compounds and its thermodynamic, electronic and magnetic properties from first-principles calculations. <i>Solid State Sciences</i> , 2020, 105, 106208.	3.2	6
27	Electronic fitness function, effective mass and thermoelectric properties of Rh-based (-ScTe; -TiSb;) Tj ETQq1 1 0.784314 rgBT /Overlock e00523.	2.1	6
28	Optical properties of revealed by ab initio calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1690-1693.	4.0	5
29	Collision frequency of Lennard-Jones fluids at high densities by equilibrium molecular dynamics simulation. <i>Pramana - Journal of Physics</i> , 2010, 75, 523-536.	1.8	5
30	ELECTRONIC AND ELASTIC PROPERTIES OF ZINC-BLENDE MgSe. <i>International Journal of Modern Physics B</i> , 2013, 27, 1350027.	2.0	5
31	First-principles calculations of dynamical and thermodynamic properties of cuprite doped with silver (Cu _{2-x} Ag _{2x} O). <i>Materials Research Express</i> , 2018, 5, 045704.	1.6	5
32	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
33	Influence of strong heterocoordination on surface properties of Li-Pb melts. <i>Physics and Chemistry of Liquids</i> , 2005, 43, 495-506.	1.2	4
34	Band structure, thermoelectric properties, effective mass and electronic fitness function of two newly discovered 18 valence electrons stable half-Heusler Ta _x (X=Co,Ir)Sn semiconductors: A density functional theory approach. <i>Solid State Sciences</i> , 2020, 100, 106096.	3.2	4
35	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
36	Band structure and absorption spectra of NH ₄ XI ₃ (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

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37	The effective mass, fitness function and enhanced thermoelectric properties in CuSbS ₂ for p-type thermoelectric material applications: Density functional theory approach. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115404.	3.5	4
38	First principle calculations of the structural, elastic, electronic and transport properties of XRuAs (X = Ta and V). Materials Science in Semiconductor Processing, 2022, 148, 106837.	4.0	4
39	Structural properties of low-density liquid alkali metals. Pramana - Journal of Physics, 2005, 65, 1085-1096.	1.8	3
40	Mixing properties in the In-Pb and In-Mg liquid alloys. Physica B: Condensed Matter, 2010, 405, 880-887.	2.7	3
41	ANTISYNCHRONIZATION OF IDENTICAL AND NONIDENTICAL $\dot{\theta}_1^6$ VAN DER POL AND $\dot{\theta}_2^6$ DUFFING OSCILLATORS WITH BOTH PARAMETRIC AND EXTERNAL EXCITATIONS VIA BACKSTEPPING APPROACH. International Journal of Modern Physics B, 2011, 25, 1957-1969.	2.0	3
42	Thermoelectric properties, optimal doping levels and high figure of merit in Cobalt-based Half/Full Heusler alloys by First-Principles calculations. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 248, 114409.	3.5	3
43	Assessing the structural, electronic, elastic and thermoelectric properties of PtTiSn and PdLaBi transition metal alloys from the first-principles prospective. Materials Science in Semiconductor Processing, 2021, 129, 105796.	4.0	3
44	Structural properties of undercooled liquid sodium and caesium. Pramana - Journal of Physics, 1999, 52, 631-645.	1.8	2
45	Dynamical properties of Ag-Cu binary alloy from molecular dynamics simulation. European Physical Journal B, 2006, 54, 423-427.	1.5	2
46	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
47	First-principle survey of structural, electronic and optical properties of zinc-blende $\text{Al}_x\text{Ga}_{1-x}\text{N}$. Materials Letters, 2018, 221, 330-335.	2.6	1
48	Correlation between bulk and surface properties in Rb-Pb liquid alloy. Journal of Molecular Liquids, 2006, 128, 90-95.	4.9	1
49	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
50	Adhesion energy, surface traction and surface tension in liquid xenon. Pramana - Journal of Physics, 2011, 77, 1151-1157.	1.8	1
51	Analysis and interpretation of Ibuji spring magnetic anomaly using the Mellin transform. Open Geosciences, 2013, 5, .	1.7	1
52	Structural and elastic properties of strained Mg _{1-x} S _x Se revealed. Solid State Communications, 2014, 178, 46-49.	1.9	1
53	First-principles study of zinc-blende B _x A _y In _{1-x-y} N quaternary alloy: Alchemical mixing approximation approach. International Journal of Modern Physics B, 2016, 30, 1650191.	2.0	1
54	Increased Malleability in Tetragonal Zr _x Ti _{1-x} O ₂ Ternary Alloys: First-Principles Approach. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 567-572.	1.5	1

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55	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
56	Structure, single-particle and many-particle coefficients of Lennard-Jones liquid Al. <i>Pramana - Journal of Physics</i> , 2005, 65, 339-347.	1.8	0
57	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
58	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
59	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 ($x = 1-10$ and $z = 0, 3-7$). <i>Materials Today Communications</i> , 2020, 24, 101026.	1.9	0
60	CK-RAID: Collaborative Knowledge Repository for Intrusion Detection System. <i>Journal of Computing and Information Technology</i> , 2019, 27, 29-39.	0.3	0
61	Effect of guest atoms on structural properties, electronics structure and optical spectra of B _x Co _{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
62	Skutterudite materials; AlyFexCo _{4-x-y} Sb ₁₂ ($x = y = 1$; $x = 2, y = 1$) for spintronics and optoelectronics applications. <i>Computational Condensed Matter</i> , 2021, 29, e00613.	2.1	0