Yusuf Zuntu Abdullahi

List of Publications by Citations

29 papers	185 citations	8 h-index	12 g-index
32 ext. papers	248 ext. citations	2.5 avg, IF	3.58 L-index

#	Paper	IF	Citations
29	Mechanical and electronic properties of graphitic carbon nitride sheet: First-principles calculations. *Solid State Communications*, **2016**, 248, 144-150	1.6	25
28	First-principles investigation of graphitic carbon nitride monolayer with embedded Fe atom. *Surface Science*, **2018**, 667, 112-120	1.8	18
27	Geometric and electric properties of graphitic carbon nitride sheet with embedded single manganese atom under bi-axial tensile strain. *Current Applied Physics*, **2016**, 16, 809-815	2.6	17
26	Adsorption of atoms and molecules on s-triazine sheet with embedded manganese atom: First-principles calculations. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2017**, 381, 3664-3674	2.3	14
25	Theoretical studies on mechanical and electronic properties of s-triazine sheet. *Philosophical Magazine*, **2017**, 97, 2077-2088	1.6	11
24	First-principles studies on the effects of halogen adsorption on monolayer antimony. *Physical Chemistry Chemical Physics*, **2017**, 19, 25786-25795	3.6	11
23	A tetragonal phase MnB sheet: a stable room temperature ferromagnet with sizable magnetic anisotropy. *Physical Chemistry Chemical Physics*, **2020**, 22, 10893-10899	3.6	11
22	Ferromagnetic TMBC (TM = Cr, Mn) monolayers for spintronic devices with high Curie temperature. *Physical Chemistry Chemical Physics*, **2021**, 23, 6107-6115	3.6	9
21	Metal-free ferromagnetic semiconductor: Mechanical, electronic and magnetic properties of boron doped graphitic carbon nitride (g□6N6) sheet. *Materials Chemistry and Physics*, **2020**, 254, 123470	4.4	8
20	Effects of atoms and molecules adsorption on electronic and magnetic properties of s-triazine with embedded Fe atom: DFT investigations. *Philosophical Magazine*, **2018**, 98, 1114-1129	1.6	8
19	Exploring the potential of MnX (S, Sb) monolayers for antiferromagnetic spintronics: A theoretical investigation. *Journal of Applied Physics*, **2020**, 128, 113903	2.5	6
18	Selective hydrogen adsorption on a buckled carbon nitride sheet: first-principles calculation. *Materials Research Express*, **2018**, 5, 125605	1.7	6
17	Density Functional Study of Structural Stabilities, Electric and Magnetic Properties of Vanadium Adsorption on Graphene. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 1995-2002	0.3	5
16	Elastic and electronic properties of C2N monolayer: first-principles calculation. *Materials Research Express*, **2019**, 6, 025601	1.7	5
15	Density functional study of manganese atom adsorption on hydrogen-terminated armchair boron nitride nanoribbons. *Physica B: Condensed Matter*, **2014**, 447, 65-69	2.8	4
14	Low Coverage Palladium Adsorption on Graphene: First Principles Study. *Quantum Matter*, **2015**, 4, 430-435		4
13	Theoretical Screening of Metal Borocarbide Sheets for High-Capacity and High-Rate Li- and Na-Ion Batteries. *Physical Review Applied*, **2021**, 16,	4.3	4

List of Publications

12	Biogas detection on carbon nitride sheet with embedded Mn atom: dispersion-corrected density functional theory. *Materials Research Express*, **2019**, 6, 065603	1.7	3
11	Tuning the electronic and magnetic properties of Fe atom embedded heptazine sheet by atomic and molecular adsorption: First-principles calculations. *Chinese Journal of Physics*, **2019**, 57, 1-5	3.5	3
10	Doping-Driven Antiferromagnetic to Ferromagnetic Phase Transition in Tetragonal Cr 2 B 2 Monolayer. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2000396	1.3	3
9	First-principles calculations to investigate the effects of strain, electric field, and atom impurity on the electronic and magnetic properties of RuX (X = S, Se) nanosheets. *Physical Chemistry Chemical Physics*, **2021**, 23, 16316-16323	3.6	3
8	Effect of Gallium and Arsenide Adsorbed on Graphene: A First-Principles Study on Structural and Electronic Properties. *Graphene*, **2013**, 1, 78-85		2
7	Antiferromagnetic semiconductor in porous boron nitride (B6N6) sheet: First-principles investigation. *Computational and Theoretical Chemistry*, **2021**, 1197, 113155	2	2
6	Formation energy, mechanical and electronic properties of buckled heptazine (C6N8) sheet: First-principles calculations. *Computational Condensed Matter*, **2022**, 30, e00619	1.7	1
5	First-principles and Monte Carlo investigation of magnetic properties of two-dimensional transition metal alloyed boron-carbide CrFeBC sheet. *Computational Materials Science*, **2022**, 202, 110964	3.2	1
4	Electronic and magnetic properties of RuO2 monolayer: DFT+U investigation. *Computational Condensed Matter*, **2021**, 29, e00614	1.7	0
3	Adsorption and decomposition of H2S on C2N sheet with embedded manganese atom: First-principles calculations. *Chemical Physics*, **2022**, 555, 111443	2.3	0
2	Effects of the Hubbard U correction on the electronic and magnetic properties of the tetragonal VP sheet.. *RSC Advances*, **2021**, 11, 35061-35068	3.7	0
1	Electronic and magnetic properties of RuTe2, Janus RuSTe and MnRuTe2 nanosheets: First-principles investigation. *Materials Today Communications*, **2022**, 30, 103176	2.5	