Hewa Y Abdullah

List of Publications by Citations

63 papers	464 citations	12 h-index	16 g-index
74 ext. papers	721 ext. citations	1.6 avg, IF	5.19 L-index

#	Paper	IF	Citations
63	Thermodynamic properties of Aharanov□Bohm (AB) and magnetic fields with screened Kratzer potential. *European Physical Journal D*, **2020**, 74, 1	1.3	26
62	Low-lying states of 184 W and 184 Os nuclei. *Chinese Physics C*, **2013**, 37, 034101	2.2	24
61	Vibration analysis of cross-ply laminated truncated conical shells using a spline method. *Journal of Engineering Mathematics*, **2012**, 76, 139-156	1.2	22
60	U(5) Symmetry of Even 96,98Ru Isotopes Under the Framework of Interacting Boson Model (IBM-1). *Brazilian Journal of Physics*, **2015**, 45, 340-346	1.2	20
59	The adsorption of bromochlorodifluoromethane on pristine and Ge-doped silicon carbide nanotube: a PBC-DFT, NBO, and QTAIM study. *Structural Chemistry*, **2021**, 32, 481-494	1.8	17
58	Microscopic description of the even-even 140-148Ba isotopes using BM, IBM and IVBM. *European Physical Journal Plus*, **2017**, 132, 1	3.1	14
57	Shannon entropy and Fisher information for screened Kratzer potential. *International Journal of Quantum Chemistry*, **2020**, 120, e26246	2.1	14
56	The adsorption of chlorofluoromethane on pristine and Ge-doped silicon carbide nanotube: a PBC-DFT, NBO, and QTAIM study. *Molecular Simulation*, **2020**, 46, 1405-1416	2	14
55	Theoretical investigation of X12O12 (X□=□Be, Mg, and Ca) in sensing CH2N2: A DFT study. *Computational and Theoretical Chemistry*, **2021**, 1198, 113168	2	13
54	Thermal Properties and Magnetic Susceptibility of Hellmann Potential in Aharonov□Bohm (AB) Flux and Magnetic Fields at Zero and Finite Temperatures. *Journal of Low Temperature Physics*, **2021**, 202, 83-105	1.3	13
53	The adsorption of bromochlorodifluoromethane on pristine, Al, Ga, P, and As-doped boron nitride nanotubes: A study involving PBC-DFT, NBO analysis, and QTAIM. *Computational and Theoretical Chemistry*, **2021**, 1193, 113047	2	13
52	An Ultimate Investigation on the Adsorption of Amantadine on Pristine and Decorated Fullerenes C59X (X=Si, Ge, B, Al, Ga, N, P, and As): A DFT, NBO, and QTAIM Study. *Journal of Computational Biophysics and Chemistry*, **2021**, 20, 23-39		13
51	The Adsorption of Chlorofluoromethane on Pristine, Al-, Ga-, P-, and As-doped Boron Nitride Nanotubes: A PBC-DFT, NBO, and QTAIM Study. *ChemistrySelect*, **2020**, 5, 12115-12124	1.8	12
50	Vinyl chloride adsorption onto the surface of pristine, Al-, and Ga-doped boron nitride nanotube: A DFT study. *Solid State Communications*, **2021**, 337, 114440	1.6	12
49	THE EVOLUTION PROPERTIES OF EVEN□EVEN 100-110Pd NUCLEI. *International Journal of Modern Physics E*, **2012**, 21, 1250101	0.7	11
48	The adsorption of chlorofluoromethane on pristine, and Al- and Ga-doped boron nitride nanosheets: a DFT, NBO, and QTAIM study. *Journal of Molecular Modeling*, **2020**, 26, 287	2	11
47	Investigation of even□even 220□230Th isotopes within the IBM, IVBM and BM. *Nuclear Physics A*, **2018**, 977, 34-48	1.3	11

46	Enhancing the absorption of 1-chloro-1,2,2,2-tetrafluoroethane on carbon nanotubes: an ab initio study. *Bulletin of Materials Science*, **2021**, 44, 1	1.7	11
45	Klein□Gordon Equation and Nonrelativistic Thermodynamic Properties with Improved Screened Kratzer Potential. *Journal of Low Temperature Physics*, **2021**, 202, 269-289	1.3	10
44	Adsorption of 1-chloro-1,2,2,2-tetrafluoroethane on pristine, Al, Ga-doped boron nitride nanotubes: a study involving PBC-DFT, NBO analysis, and QTAIM. *Canadian Journal of Chemistry*, **2021**, 99, 51-62	0.9	10
43	Electromagnetic reduced transition properties of even□even 104□112Cd isotopes. *Indian Journal of Physics*, **2013**, 87, 571-574	1.4	9
42	Electromagnetic reduced transition properties of the ground state band of even□even 102□106Pd isotopes by means of interacting boson model-I. *Indian Journal of Physics*, **2014**, 88, 5-9	1.4	9
41	Theoretical study of the adsorption of amantadine on pristine, Al-, Ga-, P-, and As-doped boron nitride nanosheets: a PBC-DFT, NBO, and QTAIM study. *Theoretical Chemistry Accounts*, **2020**, 139, 1	1.9	9
40	The Adsorption of 1-Chloro-1,2,2,2-Tetrafluoroethane Onto the Pristine, Al-, and Ga-Doped Boron Nitride Nanosheet **2021**, 45, 1287-1300		9
39	Nuclear structure of the even□even rare-earth Er□Os nuclei for N = 102. *Indian Journal of Physics*, **2020**, 94, 379-390	1.4	9
38	Description of Energy Levels for 84,86,96,98Sr Isotopes. *Physics of Atomic Nuclei*, **2018**, 81, 695-702	0.4	9
37	A comprehensive investigation of the intermolecular interactions between CH2N2 and X12Y12 (X = B, Al, Ga; Y = N, P, As) nanocages. *Canadian Journal of Chemistry*, **2021**, 99, 733-741	0.9	9
36	Spectral detection of graphene and graphene oxide with SU-8 based asymmetry tripled-Arm Mach Zehnder. *Optik*, **2018**, 154, 93-99	2.5	8
35	Theoretical study of the binding energy of some gases on Al-doped carbon nanotube. *Results in Physics*, **2016**, 6, 1146-1151	3.7	8
34	Adsorption of alkali and alkaline earth ions on nanocages using density functional theory. *Computational and Theoretical Chemistry*, **2021**, 1204, 113391	2	8
33	B (E2) value of even-even 108□112 Pd isotopes by interacting boson model-1. *Chinese Physics C*, **2014**, 38, 024103	2.2	7
32	Measuring radioactivity level in various types of rice using hyper pure germanium (HPGe) detector. *International Journal of Physical Sciences*, **2011**, 6,	0.3	7
31	A comparative study of potential energy curves with RKRV curves for the ground states of I2, F2 and CO molecules. *Bulletin of Materials Science*, **2019**, 42, 1	1.7	6
30	Bound State Solution of Radial Schrodinger Equation for the Quark□Antiquark Interaction Potential **2020**, 44, 1191-1204		6
29	Effect of Al- and Ga-doping on the adsorption of H 2 SiCl 2 onto the outer surface of boron nitride nanotube: a DFT study. *Comptes Rendus Chimie*, **2021**, 24, 291-304	2.7	6

28	Potential energy curve and spectroscopic parameters of multi-charged LiF molecule. *Canadian Journal of Physics*, **2017**, 95, 1122-1126	1.1	4
27	Algebraic-matrix calculation of vibrational levels of triatomic molecules. *Journal of Physical Chemistry A*, **2009**, 113, 6142-8	2.8	4
26	Relationship between radon concentration and physicochemical parameters in groundwater of Erbil city, Iraq. *Journal of Radiation Research and Applied Sciences*, **2021**, 14, 61-69	1.5	4
25	Theoretical investigation of the long-lived metastable AlO2+ dication in gas phase. *Chemical Physics* , **2016**, 477, 32-38	2.3	3
24	Weak intermolecular interactions of cysteine on BNNT, BNAlNT and BC2NNT: a DFT investigation. *Bulletin of Materials Science*, **2022**, 45, 1	1.7	3
23	Inelastic electron scattering from light nuclei. *Journal of the National Science Foundation of Sri Lanka*, **2013**, 41, 209	1.6	3
22	Ab initio investigation for the adsorption of acrolein onto the surface of C60, C59Si, and C59Ge: NBO, QTAIM, and NCI analyses. *Structural Chemistry*,1	1.8	3
21	Diatomic molecules energy spectra for the generalized Mobius square potential model. *International Journal of Modern Physics B*, **2020**, 34, 2050209	1.1	3
20	Theoretical study of the syn- and anti-conformers of 2,2?-bifuran derivatives: rotational barrier and solvent effect. *Physics and Chemistry of Liquids*, **2019**, 57, 174-183	1.5	3
19	2D boron nitride material as a sensor for H2SiCl2. *Computational and Theoretical Chemistry*, **2022**, 1213, 113742	2	3
18	STUDY ON GROUND STATE ENERGY BAND OF EVEN 114-124Cd ISOTOPES UNDER THE FRAMEWORK OF INTERACTING BOSON MODEL (IBM-1). *International Journal of Modern Physics E*, **2012**, 21, 1250072	0.7	2
17	Interaction of halomethane CH3Z (Z = F, Cl, Br) with X12Y12 (X = B, Al, Ga & Y = N, P, As) nanocages. *Computational and Theoretical Chemistry*, **2022**, 1208, 113544	2	2
16	Information Entropies for H2 and ScF Diatomic Molecules with Deng- Fan-Eckart Potential. *Revista Mexicana De F□sica*, **2020**, 66, 742-748	3.5	2
15	Characterization of Solar Absorber Coated by Reduced Graphene Oxide Polymer Composite on Metal Sheets. *International Journal of Thermophysics*, **2021**, 42, 1	2.1	2
14	Analytical solutions of fractional Schr□dinger equation and thermal properties of Morse potential for some diatomic molecules. *Modern Physics Letters A*, **2021**, 36, 2150041	1.3	2
13	Description of Superdeformed Bands of the Isotones (boldsymbol{N=113}) for Nuclear Mass Region (boldsymbol{Asim 190}). *Physics of Atomic Nuclei*, **2020**, 83, 866-878	0.4	1
12	Intermolecular Interactions between Serine and C60, C59Si, and C59Ge: a DFT Study. *Silicon*,1	2.4	1
11	DFT study for adsorbing of Bromine Monochloride onto BNNT (5,5), BNNT (7,0), BC2NNT (5,5), and BC2NNT (7,0). *Journal of Computational Biophysics and Chemistry*,		1

10	Non-covalent interactions of cysteine onto C, CSi, and CGe: a DFT study. *Journal of Molecular Modeling*, **2021**, 27, 330	2	1
9	Experimental Measurement of Physical, Transport, and Optical Properties of Binary Mixtures of N-Hexyl Pyridinium Nitrate [HPy][NO3] Ionic Liquid with Water, Ethanol, and Acetonitrile at 298.15 K and 101 kPa. *Journal of Solution Chemistry*, **2021**, 50, 576-590	1.8	1
8	Subsurface depth dependence of nitrogen doping in TiOanatase: a DFT study. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	1
7	Approximate energy spectra and statistical mechanical functions of some diatomic molecular hydrides. *Canadian Journal of Physics*, **2021**, 99, 253-258	1.1	1
6	Interaction of Fluorouracil drug with boron nitride nanotube, Al doped boron nitride nanotube and BC2N nanotube. *Computational and Theoretical Chemistry*, **2022**, 1212, 113699	2	1
5	Electronic properties of (TiO2)33 nanocrystals with nitrogen impurities at different facets: a DFT study. *Molecular Simulation*, **2021**, 47, 1185-1197	2	0
4	Properties of O(6)-U(5) transition symmetry for 122-124Cd isotopes in IBM. *IOP Conference Series: Materials Science and Engineering*, **2020**, 928, 072149	0.4	
3	Microscopic Description of 170 Er, 172 Yb, 174 Hf, and 176 W Isotones. *IOP Conference Series: Materials Science and Engineering*, **2020**, 928, 072124	0.4	
2	A Comparative Study of Potential Energy Curves of Osmium Nitride Molecule **2019**, 43, 1361-1363		
1	Backbending Phenomena in EvenEven ({}^{boldsymbol{162{-}172}})Hf Isotopes. *Physics of Atomic Nuclei*, **2021**, 84, 18-28	0.4	