

Zabiollah Mahdavifar

List of Publications by Citations

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44
papers

526
citations

15
h-index

20
g-index

44
ext. papers

586
ext. citations

4.2
avg, IF

4.53
L-index

#	Paper	IF	Citations
44	Theoretical study of the inclusion complexes of α - and β -cyclodextrins with decyltrimethylammonium bromide (DTAB) and tetradecyltrimethylammonium bromide (TTAB). <i>Journal of Molecular Liquids</i> , 2007 , 135, 153-157	6	39
43	Theoretical prediction of ozone sensing using pristine and endohedral metalloboron B80 fullerenes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 205, 26-38	8.5	33
42	A comparative theoretical study of CO ₂ sensing using inorganic AlN, BN and SiC single walled nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 512-522	8.5	32
41	Four-coordinate and pseudo five-coordinate Hg(II) complexes of a new bidentate phosphorus ylide: X-ray crystal structure and spectral characterization. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 1441-1450	2.3	26
40	Electronic Properties of Adsorption Nitrogen Monoxide on Inside and Outside of the Armchair Single Wall Carbon Nanotubes: A Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3597-3604	3.8	25
39	Theoretical investigation of pristine and functionalized AlN and SiC single walled nanotubes as an adsorption candidate for methane. <i>Applied Surface Science</i> , 2012 , 263, 553-562	6.7	24
38	Theoretical approach into potential possibility of efficient NO ₂ detection via B ₄₀ and Li@B ₄₀ fullerenes. <i>Chemical Physics Letters</i> , 2018 , 691, 360-365	2.5	23
37	Stability prediction of pristine and metal endohedral borofullerenes: Computational approach. <i>Journal of Molecular Liquids</i> , 2016 , 219, 1144-1156	6	22
36	Theoretical prediction of encapsulation and adsorption of platinum-anticancer drugs into single walled boron nitride and carbon nanotubes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014 , 79, 443-457	1.7	22
35	Canonical Monte Carlo simulation of adsorption of O ₂ and N ₂ mixture on single walled carbon nanotube at different temperatures and pressures. <i>Journal of Computational Chemistry</i> , 2010 , 31, 1443-935	3.5	22
34	Synthesis, characterization, and structural studies of mercury(II) complexes of new bidentate phosphorus ylide. <i>Inorganica Chimica Acta</i> , 2010 , 363, 1254-1261	2.7	22
33	Preference prediction for the stable inclusion complex formation between cucurbit [n = 5]urils with anticancer drugs based on platinum (II): Computational study. <i>Journal of Molecular Liquids</i> , 2012 , 166, 53-61	6	21
32	The influence of Cu-doping on aluminum nitride, silicon carbide and boron nitride nanotubes ability to detect carbon dioxide; DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 56, 268-276	3	19
31	Effect of the adsorption of oxygen on electronic structures and geometrical parameters of armchair single-wall carbon nanotubes: a density functional study. <i>Journal of Colloid and Interface Science</i> , 2009 , 336, 1-12	9.3	17
30	New mononuclear mercury(II) complexes of a bifunctionalized ylide containing five-membered chelate ring: Spectral and structural characterization. <i>Inorganica Chimica Acta</i> , 2010 , 363, 3654-3661	2.7	16
29	Synthesis of new phosphorus ylides: Spectroscopic and X-ray structural studies. <i>Heteroatom Chemistry</i> , 2010 , 21, 475-485	1.2	15
28	Theoretical prediction of maximum capacity of C ₆₀ and Si ₄ fullerenes for noble gas storage. <i>Journal of Molecular Graphics and Modelling</i> , 2014 , 54, 32-45	2.8	13

27	Predicting helium and neon adsorption and separation on carbon nanotubes by Monte Carlo simulation. <i>Journal of Molecular Modeling</i> , 2011 , 17, 785-94	2	13
26	Evolutionary search for (M _n Q) (M = Sc-Ni; Q = 0/-1) clusters: bowl/boat vs. tubular shape. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22618-22628	3.6	13
25	Hetero-fullerenes C ₅₉ M (M = B, Al, Ga, Ge, N, P, As) for sulfur dioxide gas sensing: Computational approach. <i>Chemical Physics</i> , 2020 , 530, 110606	2.3	10
24	Evaluation of photovoltaic properties and effective conjugated length of DTTTD-based polymers as donor in BHJ solar cells; quantum chemical approach. <i>Polymer</i> , 2017 , 126, 162-176	3.9	9
23	Thermodynamic studies of inclusion complex formation between alkylpyridinium chlorides and Cyclodextrin using conductometric method. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010 , 67, 247-252		8
22	Can Fluorine form Halogen Bond? Investigation of Halogen Bonds through Steric Charge. <i>ChemistrySelect</i> , 2017 , 2, 2713-2717	1.8	7
21	Theoretical investigation of inclusion complex formation of Gold (III) Dimethyldithiocarbamate anticancer agents with cucurbit[n=5,6]urils. <i>Arabian Journal of Chemistry</i> , 2014 , 7, 425-435	5.9	7
20	CdInGaS ₄ : An unexplored two-dimensional materials with desirable band gap for optoelectronic devices. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157220	5.7	7
19	Copper halide diselenium: predicted two-dimensional materials with ultrahigh anisotropic carrier mobilities.. <i>RSC Advances</i> , 2020 , 10, 8016-8026	3.7	5
18	Electro-Optical Properties and Structural Stability Perspectives of M ₃ N and M ₂ C ₂ (M = Sc, La) Clusters Encapsulated in B ₈₀ Fullerene: A Density Functional Theory Study. <i>Journal of Electronic Materials</i> , 2018 , 47, 550-565	1.9	5
17	Tuning of Elastic Properties of Nanotubes by Imposing a Transverse Electric Field: Computational Approach. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17801-17809	3.8	5
16	Modifying the electronic and geometrical properties of mono/bi-layer graphite-like BC ₂ N via alkali metal (Li, Na) adsorption and intercalation: computational approach. <i>New Journal of Chemistry</i> , 2019 , 43, 13122-13133	3.6	5
15	Theoretical investigation of ethane and ethene monitoring using pristine and decorated aluminum nitride and silicon carbide nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 555-566	8.5	5
14	Theoretical studies of n-membered ring chelate complexes of Ni(II), Pd(II) and Pt(II) derived from bidentate phosphorus ylides. <i>Polyhedron</i> , 2014 , 72, 72-82	2.7	5
13	Electronic and stability characters of endohedral Zn@Sin and exohedral SinHn (n = 20, 30, 40, 50, 60) fullerenes: A DFT approach. <i>Journal of Molecular Liquids</i> , 2016 , 219, 561-572	6	5
12	Exploring the electro-optical properties of conjugated polymers based on oligo-selenophene and oligo(3,4-ethylenedioxy-selenophene). <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4962	3.1	4
11	Carbon monoxide monitoring using pristine and Cu-functionalized aluminum nitride and silicon carbide nanotubes; DFT study. <i>Journal of Molecular Liquids</i> , 2015 , 204, 147-155	6	4
10	Systematic investigation of structure and optoelectronic properties of Ge (n=3-20), MGe ₉ (M=Ti, Ga, Si, Sn, As) and GaxGe(10-x) (x=1-10) Clusters: Computational approach. <i>Polyhedron</i> , 2021 , 193, 114874	2.7	4

9	Umbrella-shaped vs planar; evolutionary search for BnQ, Be _n BnQ (n = 6-12, Q = 0, 1) clusters. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115389	6	3
8	Prediction of unexpected BnPn structures: promising materials for non-linear optical devices and photocatalytic activities. <i>Nanoscale Advances</i> , 2021 , 3, 2846-2861	5.1	3
7	A quantum chemical study of the factors influencing performance of DTTTD: Fullerene heterojunction photovoltaic models. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 310, 9-25	4.7	2
6	Exploring the optical and nonlinear optical features of heteroleptic complexes with BODIPY and amido-BODIPY substitutions; A comparative theoretical study. <i>Inorganic Chemistry Communication</i> , 2020 , 121, 108234	3.1	2
5	Prediction of beryllium clusters (Be _n ; n = 3-25) from first principles. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19716-19728	3.6	2
4	Different coordination modes of bifunctionalized ylides in complexation with group 12 metals via computational approach. <i>Journal of Molecular Liquids</i> , 2016 , 219, 579-591	6	1
3	Length dependence of conductance in benzothiadiazole molecular wires between graphene nanoribbon electrodes: Effect of conformational changes. <i>Journal of Molecular Liquids</i> , 2018 , 269, 639-649	6	1
2	Response surface methodology optimizing the adsorptive removal of azithromycin using mesoporous silica SBA-15: Mechanism, thermodynamic, equilibrium, and kinetics modeling studies. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021 , 56, 1145-1164	2.3	0
1	Achieved negative differential resistance behavior of Si/B-substituted into a C chain sandwiched between capped carbon nanotube junctions.. <i>RSC Advances</i> , 2022 , 12, 1758-1768	3.7	