

# Zabiollah Mahdavifar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Achieved negative differential resistance behavior of Si/B-substituted into a C chain sandwiched between capped carbon nanotube junctions.. <i>RSC Advances</i> , <b>2022</b> , 12, 1758-1768	3.7	
43	Umbrella-shaped vs planar; evolutionary search for BnQ, Be $\square$ BnQ (n = 6 $\square$ 2, Q = 0, $\square$ ) clusters. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 328, 115389	6	3
42	CdInGaS <sub>4</sub> : An unexplored two- dimensional materials with desirable band gap for optoelectronic devices. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 854, 157220	5.7	7
41	Systematic investigation of structure and optoelectronic properties of Ge (n $\square$ B $\square$ O), MGe <sub>9</sub> (M $\square$ Ga, Si, Sn, As) and GaxGe(10 $\square$ ) (x $\square$ 1 $\square$ 0) Clusters: Computational approach. <i>Polyhedron</i> , <b>2021</b> , 193, 114874	2.7	4
40	Prediction of beryllium clusters (Be; = 3-25) from first principles. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 19716-19728	3.6	2
39	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> , <b>2021</b> , 56, 1145-1164	2.3	0
38	Prediction of unexpected BnPn structures: promising materials for non-linear optical devices and photocatalytic activities. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 2846-2861	5.1	3
37	Copper halide diselenium: predicted two-dimensional materials with ultrahigh anisotropic carrier mobilities.. <i>RSC Advances</i> , <b>2020</b> , 10, 8016-8026	3.7	5
36	Hetero-fullerenes C <sub>59</sub> M (M = B, Al, Ga, Ge, N, P, As) for sulfur dioxide gas sensing: Computational approach. <i>Chemical Physics</i> , <b>2020</b> , 530, 110606	2.3	10
35	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> , <b>2020</b> , 121, 108234	3.1	2
34	Exploring the electro-optical properties of conjugated polymers based on oligo-selenophene and oligo(3,4-ethylenedioxy-selenophene). <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4962	3.1	4
33	Modifying the electronic and geometrical properties of mono/bi-layer graphite-like BC <sub>2</sub> N via alkali metal (Li, Na) adsorption and intercalation: computational approach. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 13122-13133	3.6	5
32	Evolutionary search for (M $\square$ B) (M = Sc-Ni; Q = 0/-1) clusters: bowl/boat vs. tubular shape. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 22618-22628	3.6	13
31	Electro-Optical Properties and Structural Stability Perspectives of M <sub>3</sub> N and M <sub>2</sub> C <sub>2</sub> (M = Sc, La) Clusters Encapsulated in B <sub>80</sub> Fullerene: A Density Functional Theory Study. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 550-565	1.9	5
30	Length-dependence of conductance in benzothiadiazole molecular wires between graphene nanoribbon electrodes: Effect of conformational changes. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 269, 639-649	6	1
29	Theoretical approach into potential possibility of efficient NO <sub>2</sub> detection via B <sub>40</sub> and Li@B <sub>40</sub> fullerenes. <i>Chemical Physics Letters</i> , <b>2018</b> , 691, 360-365	2.5	23
28	Can Fluorine form Halogen Bond? Investigation of Halogen Bonds through Steric Charge. <i>ChemistrySelect</i> , <b>2017</b> , 2, 2713-2717	1.8	7

27	Evaluation of photovoltaic properties and effective conjugated length of DTTTD-based polymers as donor in BHJ solar cells; quantum chemical approach. <i>Polymer</i> , <b>2017</b> , 126, 162-176	3.9	9
26	Tuning of Elastic Properties of Nanotubes by Imposing a Transverse Electric Field: Computational Approach. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17801-17809	3.8	5
25	Different coordination modes of bifunctionalized ylides in complexation with group 12 metals via computational approach. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 219, 579-591	6	1
24	Stability prediction of pristine and metal endohedral borofullerenes: Computational approach. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 219, 1144-1156	6	22
23	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> , <b>2016</b> , 219, 561-572	6	5
22	A quantum chemical study of the factors influencing performance of DTTTD: Fullerene heterojunction photovoltaic models. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 310, 9-25	4.7	2
21	Carbon monoxide monitoring using pristine and Cu-functionalized aluminum nitride and silicon carbide nanotubes; DFT study. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 204, 147-155	6	4
20	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> , <b>2014</b> , 79, 443-457	1.7	22
19	Theoretical investigation of ethane and ethene monitoring using pristine and decorated aluminum nitride and silicon carbide nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 196, 555-566	8.5	5
18	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> , <b>2014</b> , 56, 268-276	3	19
17	Theoretical prediction of maximum capacity of C <sub>60</sub> and Si <sub>60</sub> Fullerenes for noble gas storage. <i>Journal of Molecular Graphics and Modelling</i> , <b>2014</b> , 54, 32-45	2.8	13
16	Theoretical prediction of ozone sensing using pristine and endohedral metalloboron B <sub>80</sub> fullerenes. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 205, 26-38	8.5	33
15	Theoretical studies of n-membered ring chelate complexes of Ni(II), Pd(II) and Pt(II) derived from bidentate phosphorus ylides. <i>Polyhedron</i> , <b>2014</b> , 72, 72-82	2.7	5
14	Theoretical investigation of inclusion complex formation of Gold (III) Dimethyldithiocarbamate anticancer agents with cucurbit[n=5,6]urils. <i>Arabian Journal of Chemistry</i> , <b>2014</b> , 7, 425-435	5.9	7
13	A comparative theoretical study of CO <sub>2</sub> sensing using inorganic AlN, BN and SiC single walled nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 512-522	8.5	32
12	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> , <b>2012</b> , 166, 53-61	6	21
11	Theoretical investigation of pristine and functionalized AlN and SiC single walled nanotubes as an adsorption candidate for methane. <i>Applied Surface Science</i> , <b>2012</b> , 263, 553-562	6.7	24
10	Predicting helium and neon adsorption and separation on carbon nanotubes by Monte Carlo simulation. <i>Journal of Molecular Modeling</i> , <b>2011</b> , 17, 785-94	2	13

9	Thermodynamic studies of inclusion complex formation between alkylpyridinium chlorides and Cyclodextrin using conductometric method. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2010</b> , 67, 247-252		8
8	Synthesis of new phosphorus ylides: Spectroscopic and X-ray structural studies. <i>Heteroatom Chemistry</i> , <b>2010</b> , 21, 475-485	1.2	15
7	Canonical Monte Carlo simulation of adsorption of O <sub>2</sub> and N <sub>2</sub> mixture on single walled carbon nanotube at different temperatures and pressures. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 1443-9 <sup>3.5</sup>		22
6	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> , <b>2010</b> , 695, 1441-1450	2.3	26
5	Synthesis, characterization, and structural studies of mercury(II) complexes of new bidentate phosphorus ylide. <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 1254-1261	2.7	22
4	New mononuclear mercury(II) complexes of a bifunctionalized ylide containing five-membered chelate ring: Spectral and structural characterization. <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 3654-3661	2.7	16
3	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> , <b>2009</b> , 336, 1-12	9.3	17
2	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> , <b>2008</b> , 112, 3597-3604	3.8	25
1	Theoretical study of the inclusion complexes of $\beta$ -cyclodextrins with decyltrimethylammonium bromide (DTAB) and tetradecyltrimethylammonium bromide (TTAB). <i>Journal of Molecular Liquids</i> , <b>2007</b> , 135, 153-157	6	39