

Ali Reza Soltani

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

92 papers	1,833 citations	26 h-index	38 g-index
95 ext. papers	2,131 ext. citations	3.8 avg, IF	5.27 L-index

#	Paper	IF	Citations
92	Electrostatic interaction assisted Ca-decorated C20 fullerene loaded to anti-inflammatory drugs to manage cardiovascular disease risk in rheumatoid arthritis patients. <i>Journal of Molecular Liquids</i> , 2022 , 350, 118564	6	2
91	Sustainable cyanide-C60 fullerene cathode to suppress the lithium polysulfides in a lithium-sulfur battery. <i>Sustainable Materials and Technologies</i> , 2022 , 32, e00403	5.3	1
90	In vitro release and cytotoxicity study of encapsulated sulfasalazine within LTSP micellar/liposomal and TSP micellar/niosomal nano-formulations. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 9749-9756	6.1	0
89	Molecular docking and Density functional theory simulation: Improved anti-inflammatory and anticancer properties of celecoxib using Zinc oxide and magnesium oxide nanoclusters. <i>Arabian Journal of Chemistry</i> , 2021 , 103568	5.9	2
88	Improved Antibacterial Activity of sulfasalazine loaded fullerene derivative: computational and experimental studies. <i>Journal of Molecular Liquids</i> , 2021 , 118083	6	0
87	Molecular Docking Evaluation of Celecoxib on the Boron Nitride Nanostructures for alleviation of Cardiovascular Risk and inflammatory. <i>Arabian Journal of Chemistry</i> , 2021 , 103521	5.9	0
86	Non-ionic surfactant vesicles as novel delivery systems for sulfasalazine: Evaluation of the physicochemical and cytotoxic properties. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129874	3.4	6
85	Spectroscopic, density functional theory, cytotoxicity and antioxidant activities of sulfasalazine and naproxen drugs combination. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103190	5.9	6
84	Investigations of adsorption behavior and anti-cancer activity of curcumin on pure and platinum-functionalized B12N12 nanocages. <i>Journal of Molecular Liquids</i> , 2021 , 334, 116516	6	12
83	Investigations of adsorption behavior and anti-inflammatory activity of glycine functionalized AlN and AlON fullerene-like cages. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 246, 119023	4.4	15
82	A comprehensive spectroscopic, solvatochromic and photochemical analysis of 5-hydroxyquinoline and 8-hydroxyquinoline mono-azo dyes. <i>Journal of Molecular Structure</i> , 2021 , 1223, 129323	3.4	4
81	Penicillamine functionalized B12N12 and B12CaN12 nanocages act as potential inhibitors of proinflammatory cytokines: A combined DFT analysis, ADMET and molecular docking study. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103200	5.9	8
80	Modeling and simulation of external electric field application for diisopropyl methylphosphonate sensing through B12N12 fullerene. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116845	6	
79	Predicting adsorption behavior and anti-inflammatory activity of naproxen interacting with pure boron nitride and boron phosphide fullerene-like cages. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116678	6	6
78	Adsorption behavior of uracil on external surface of MgO nanotubes: A new class of hybrid nano-bio materials. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116732	6	0
77	Molecular Modeling and Simulation of glycine functionalized B12N12 and B16N16 nanoclusters as potential inhibitors of proinflammatory cytokines. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117494	6	7
76	Effect of adsorption sensitivity of armchair single-walled BN nanotube toward thiocyanate anion: A systematic evaluation of length and diameter effects. <i>Surfaces and Interfaces</i> , 2020 , 21, 100693	4.1	

75	The study of thiazole adsorption upon BC2N nanotube: DFT/TD-DFT investigation. <i>Structural Chemistry</i> , 2020 , 31, 1959-1967	1.8	2
74	Novel gamma arsenene nanosheets as sensing medium for vomiting agents: A first-principles research. <i>Computational and Theoretical Chemistry</i> , 2020 , 1185, 112876	2	19
73	Theoretical study of nitrogen, boron, and co-doped (B, N) armchair graphene nanoribbons. <i>Journal of Molecular Modeling</i> , 2020 , 26, 64	2	8
72	Gold decorated B12N12 nanocluster as an effective sulfasalazine drug carrier: A theoretical investigation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114296	3	18
71	ST8 micellar/niosomal vesicular nanoformulation for delivery of naproxen in cancer cells: Physicochemical characterization and cytotoxicity evaluation. <i>Journal of Molecular Structure</i> , 2020 , 1211, 127867	3.4	10
70	Influence of the adsorption of toxic agents on the optical and electronic properties of B12N12 fullerene in the presence and absence of an external electric field. <i>New Journal of Chemistry</i> , 2020 , 44, 14513-14528	3.6	7
69	Ab Initio Study of TEPA Adsorption on Pristine, Al and Si Doped Carbon and Boron Nitride Nanotubes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4297-4310	3.2	11
68	Adsorption of sarin and chlorosarin onto the Al12N12 and Al12P12 nanoclusters: DFT and TDDFT calculations. <i>Surface and Interface Analysis</i> , 2020 , 52, 725-734	1.5	1
67	A comparative theoretical study on the interaction of pure and carbon atom substituted boron nitride fullerenes with ifosfamide drug. <i>Journal of Molecular Liquids</i> , 2020 , 297, 111894	6	21
66	Synthesis, Characterization, Crystal Structure, and DFT Study of 4-Bromo-2-(4,6-Dichloro-Phenylimino)-Phenol. <i>Journal of Structural Chemistry</i> , 2019 , 60, 890-897	0.9	3
65	Optical and Electronic Properties of Al-Doped Mg12O12 Nanocluster: A Theoretical Study. <i>Russian Journal of Inorganic Chemistry</i> , 2019 , 64, 762-769	1.5	3
64	Kinetic Stability and Reactivity of Silicon and Fluorine-Containing CL-20 Derivatives. <i>ChemistrySelect</i> , 2019 , 4, 9659-9665	1.8	3
63	A DFT Study on Structure and Electronic Properties of BN Nanostructures Adsorbed with Dopamine. <i>Computation</i> , 2019 , 7, 61	2.2	9
62	Adsorption of HCOH and H2S molecules on Al12P12 fullerene: a DFT study. <i>Adsorption</i> , 2019 , 25, 235-245.6	9	
61	A study on the effect of 1-butyl-4-methylpyridinium bromide adsorption on the structural and electronic properties of B12N12 nano-cage. <i>Journal of Molecular Liquids</i> , 2019 , 277, 115-122	6	6
60	Adsorption behavior of metformin drug on boron nitride fullerenes: Thermodynamics and DFT studies. <i>Journal of Molecular Liquids</i> , 2019 , 275, 955-967	6	45
59	Antibacterial and Antioxidant Activities and Phytochemical Properties of Punica granatum Flowers in Iran 2018 , 42, 1105-1110		4
58	Crystallography, vibrational, electronic and optical analysis of 4-Bromo-2-(2,5-dichloro-phenylimino)-phenol. <i>Journal of Molecular Structure</i> , 2018 , 1173, 521-530	3.4	4

57	Theoretical study on pure and doped B12N12 fullerenes as thiophene sensor. <i>Adsorption</i> , 2018 , 24, 585-593	15
56	Adsorption of chemical warfare agents over C24 fullerene: Effects of decoration of cobalt. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2148-2161	5.7 41
55	Theoretical studies of hydrazine detection by pure and Al defected MgO nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 239-249	3 19
54	Cationic vesicles for efficient shRNA transfection in the MCF-7 breast cancer cell line. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7107-7121	7.3 7
53	Serine adsorption through different functionalities on the BN and Pt-BN nanocages. <i>Materials Science and Engineering C</i> , 2018 , 92, 216-227	8.3 25
52	Adsorption of Celecoxib on BN fullerene: Spectroscopic and DFT/TD-DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 348-353	4.4 49
51	Interaction of CNCl molecule and single-walled AlN nanotubes using DFT and TD-DFT calculations. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 270-276	4.3 7
50	Effect of the embedded atom on the electronic, optical properties and kinetic stability of [3,6]silaprismane. <i>Chemical Physics</i> , 2017 , 487, 59-66	2.3 7
49	A density-functional theory of hydrogen adsorption on indium nitride nanotubes. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 325-335	1.5 4
48	Interaction of pure and metal atom substituted carbon nanocages with CNCl: a DFT study. <i>Russian Journal of Physical Chemistry B</i> , 2017 , 11, 354-360	1.2 12
47	Ga-doped and antisite double defects enhance the sensitivity of boron nitride nanotubes towards Soman and Chlorosoman. <i>Applied Surface Science</i> , 2017 , 411, 1-10	6.7 39
46	Interaction of hydrogen with Pd- and co-decorated C24 fullerenes: Density functional theory study. <i>Synthetic Metals</i> , 2017 , 234, 1-8	3.6 33
45	Structural and electronic properties of XY-doped (AlN, AlP, GaN, GaP) C58 fullerenes: a DFT study. <i>Russian Journal of Inorganic Chemistry</i> , 2017 , 62, 1067-1076	1.5 5
44	DFT study of the adsorption of H2O2 inside and outside Al12N12 nano-cage. <i>Russian Journal of Physical Chemistry A</i> , 2017 , 91, 1527-1534	0.7 7
43	Synthesis, spectroscopic and photophysical studies of xanthene derivatives. <i>Journal of Molecular Structure</i> , 2017 , 1149, 862-873	3.4 11
42	Preparation, characterization and toxicity evaluation of Co3O4 and NiO-filled multi-walled carbon nanotubes loaded to chitosan. <i>Nano Structures Nano Objects</i> , 2017 , 12, 182-187	5.6 16
41	Molecular structures, hirshfeld surface analysis, and spectroscopic properties of 6,8-dimethyl-3-(4-chlorophenyl)-7-oxo-7,8-dihydropyrimido[4,5-c]pyridazin-5(6H)-one and 6,8-dimethyl-3-(4-chlorophenyl)-7-thioxo-7,8-dihydropyrimido[4,5-c]pyridazin-5(6H)-one. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1332-1340	0.9 5
40	Interaction of B12N12 nano-cage with cysteine through various functionalities: A DFT study. <i>Superlattices and Microstructures</i> , 2016 , 100, 24-37	2.8 31

39	Electronic and optical properties of 5-AVA-functionalized BN nanoclusters: a DFT study. <i>New Journal of Chemistry</i> , 2016 , 40, 7018-7026	3.6	45
38	Adsorption properties of hydrazine on pristine and Si-doped Al ₁₂ N ₁₂ nano-cage. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016 , 191, 702-708	1	11
37	Isolation, spectroscopic characterization, X-ray, theoretical studies as well as in vitro cytotoxicity of Samarcandin. <i>Bioorganic Chemistry</i> , 2016 , 66, 27-32	5.1	10
36	The interaction of 2,6-dichlorobenzylidene-2,4-dichloroaniline (2,6-DBDA) and 2,4-dichlorobenzylidene-2,4-dichloroaniline (2,4-DBDA) with single-walled carbon nanotube: A DFT study. <i>Journal of Molecular Structure</i> , 2016 , 1105, 128-134	3.4	5
35	BN Nanotube Serving as a Gas Chemical Sensor for N ₂ O by Parallel Electric Field. <i>Journal of Cluster Science</i> , 2016 , 27, 1081-1096	3	18
34	A DFT study of adsorption of glycine onto the surface of BC ₂ N nanotube. <i>Applied Surface Science</i> , 2016 , 384, 230-236	6.7	18
33	Adsorption and dissociation of H ₂ on Pd doped graphene-like SiC sheet. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22886-22898	6.7	19
32	A DFT study on the interaction between 5-fluorouracil and B ₁₂ N ₁₂ nanocluster. <i>RSC Advances</i> , 2016 , 6, 104513-104521	3.7	51
31	A DFT study of 5-fluorouracil adsorption on the pure and doped BN nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 86, 57-64	3.9	48
30	Carbon monoxide interactions with pure and doped B ₁₁ XN ₁₂ (X = Mg, Ge, Ga) nano-clusters: a theoretical study. <i>RSC Advances</i> , 2015 , 5, 90621-90631	3.7	37
29	Al ₁₂ N ₁₂ nanocage as potential adsorbent for removal of acetone from environmental systems. <i>Monatshefte für Chemie</i> , 2015 , 146, 891-896	1.4	10
28	Phenol interaction with different nano-cages with and without an electric field: a DFT study. <i>Structural Chemistry</i> , 2015 , 26, 685-693	1.8	38
27	Crystal structure, spectroscopic and theoretical studies on two Schiff base compounds of 2,6-dichlorobenzylidene-2,4-dichloroaniline and 2,4-dichlorobenzylidene-2,4-dichloroaniline. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 139, 271-8	4.4	18
26	A computational study of adenine, uracil, and cytosine adsorption upon AlN and BN nano-cages. <i>Physica B: Condensed Matter</i> , 2014 , 444, 6-13	2.8	54
25	Computational study of OCN ₂ chemisorption over AlN nanostructures. <i>Superlattices and Microstructures</i> , 2014 , 72, 370-382	2.8	8
24	Adsorption phenomena of gas molecules upon Ga-doped BN nanotubes: A DFT study. <i>Applied Surface Science</i> , 2014 , 295, 18-25	6.7	25
23	Sensitivity of BN nano-cages to caffeine and nicotine molecules. <i>Superlattices and Microstructures</i> , 2014 , 76, 315-325	2.8	65
22	Al ₁₂ N ₁₂ nanocage as a potential sensor for phosgene detection. <i>Canadian Journal of Chemistry</i> , 2014 , 92, 605-610	0.9	29

21	The study of SCN adsorption on B ₁₂ N ₁₂ and B ₁₆ N ₁₆ nano-cages. <i>Superlattices and Microstructures</i> , 2014 , 75, 716-724	2.8	26
20	Biochemical and biophysical properties of a novel homoisoflavonoid extracted from <i>Scilla persica</i> HAUSSKN. <i>Bioorganic Chemistry</i> , 2014 , 57, 51-56	5.1	7
19	Adsorption of cyanogen chloride over Al- and Ga-doped BN nanotubes. <i>Superlattices and Microstructures</i> , 2014 , 75, 564-575	2.8	52
18	Formation and electronic structure of C ₂₀ fullerene transition metal clusters. <i>Monatshefte für Chemie</i> , 2014 , 145, 1401-1405	1.4	33
17	Adsorption mechanism of single OCN and SCN upon single-walled BP nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 59, 66-74	3	10
16	The electronic and structural properties of BN and BP nano-cages interacting with OCN: A DFT study. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 1099-1105	3.9	33
15	A theoretical study of the adsorption behavior of N ₂ O on single-walled AlN and AlP nanotubes. <i>Superlattices and Microstructures</i> , 2013 , 58, 178-190	2.8	15
14	H ₂ O ₂ adsorption on the BN and SiC nanotubes: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 48, 176-180	3	100
13	A first-principles study of functionalized clusters and carbon nanotubes or fullerenes with 5-Aminolevulinic acid as vehicles for drug delivery. <i>Superlattices and Microstructures</i> , 2013 , 62, 251-259	2.8	31
12	Ab initio study of the NO ₂ and SO ₂ adsorption on Al ₁₂ N ₁₂ nano-cage sensitized with gallium and magnesium. <i>Computational Materials Science</i> , 2013 , 79, 795-803	3.2	51
11	Computational investigation of the electronic and structural properties of CN radical on the pristine and Al-doped (6, 0) BN nanotubes. <i>Physica B: Condensed Matter</i> , 2013 , 430, 20-26	2.8	14
10	A first-principles study of the adsorption behavior of CO on Al- and Ga-doped single-walled BN nanotubes. <i>Applied Surface Science</i> , 2013 , 270, 25-32	6.7	116
9	Ab initio investigation of the SCN chemisorption of single-walled boron nitride nanotubes. <i>Applied Surface Science</i> , 2012 , 258, 9536-9543	6.7	35
8	A first-principles study of the SCN chemisorption on the surface of AlN, AlP, and BP nanotubes. <i>Applied Surface Science</i> , 2012 , 259, 637-642	6.7	23
7	Theoretical investigation of OCN adsorption onto boron nitride nanotubes. <i>Applied Surface Science</i> , 2012 , 261, 262-267	6.7	29
6	Ab initio investigation of Al- and Ga-doped single-walled boron nitride nanotubes as ammonia sensor. <i>Applied Surface Science</i> , 2012 , 263, 619-625	6.7	76
5	Adsorption properties of N ₂ O on (6,0), (7,0), and (8,0) zigzag single-walled boron nitride nanotubes: A computational study. <i>Computational and Theoretical Chemistry</i> , 2011 , 970, 30-35	2	46
4	Adsorption properties of OCN radical on (6,0), (8,0), and (10,0) zigzag single-walled carbon nanotubes: a density functional study. <i>Monatshefte für Chemie</i> , 2011 , 142, 1-4	1.4	20

3	Adsorption properties of N ₂ O on (6,0), (7,0), (8,0), and Al-doped (6,0) zigzag single-walled carbon nanotubes: a density functional study. <i>Monatshefte Für Chemie</i> , 2011 , 142, 573-578	1.4	14
2	Adsorption properties of SCN ⁻ on (6,0), (7,0), (8,0), and Al-doped (6,0) zigzag single-walled carbon nanotubes: a density functional study. <i>Monatshefte Für Chemie</i> , 2011 , 142, 979-984	1.4	8
1	Experimental and theoretical studies of the interaction of Penicillamine with SWCNT (6,0) as a drug delivery system. <i>Inorganic and Nano-Metal Chemistry</i> , 1-9	1.2	0