

Ali Reza Soltani

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4664677/ali-reza-soltani-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	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
91	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
90	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
89	Sensitivity of BN nano-cages to caffeine and nicotine molecules. <i>Superlattices and Microstructures</i> , 2014 , 76, 315-325	2.8	65
88	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
87	Adsorption of cyanogen chloride over Al- and Ga-doped BN nanotubes. <i>Superlattices and Microstructures</i> , 2014 , 75, 564-575	2.8	52
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	Adsorption of chemical warfare agents over C ₂₄ fullerene: Effects of decoration of cobalt. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2148-2161	5.7	41
78	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
77	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
76	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

75	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
74	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
73	Formation and electronic structure of C20 fullerene transition metal clusters. <i>Monatshefte für Chemie</i> , 2014 , 145, 1401-1405	1.4	33
72	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
71	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
70	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
69	Al12N12 nanocage as a potential sensor for phosgene detection. <i>Canadian Journal of Chemistry</i> , 2014 , 92, 605-610	0.9	29
68	Theoretical investigation of OCN ⁻ adsorption onto boron nitride nanotubes. <i>Applied Surface Science</i> , 2012 , 261, 262-267	6.7	29
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	Adsorption and dissociation of H2 on Pd doped graphene-like SiC sheet. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22886-22898	6.7	19
59	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
58	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

57	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
56	BN Nanotube Serving as a Gas Chemical Sensor for N2O by Parallel Electric Field. <i>Journal of Cluster Science</i> , 2016 , 27, 1081-1096	3	18
55	A DFT study of adsorption of glycine onto the surface of BC2N nanotube. <i>Applied Surface Science</i> , 2016 , 384, 230-236	6.7	18
54	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
53	Theoretical study on pure and doped B12N12 fullerenes as thiophene sensor. <i>Adsorption</i> , 2018 , 24, 585-593	5.3	15
52	A theoretical study of the adsorption behavior of N2O on single-walled AlN and AlP nanotubes. <i>Superlattices and Microstructures</i> , 2013 , 58, 178-190	2.8	15
51	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
50	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
49	Adsorption properties of N2O 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
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	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
46	Adsorption properties of hydrazine on pristine and Si-doped Al12N12 nano-cage. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016 , 191, 702-708	1	11
45	Synthesis, spectroscopic and photophysical studies of xanthene derivatives. <i>Journal of Molecular Structure</i> , 2017 , 1149, 862-873	3.4	11
44	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
43	Al12N12 nanocage as potential adsorbent for removal of acetone from environmental systems. <i>Monatshefte für Chemie</i> , 2015 , 146, 891-896	1.4	10
42	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
41	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
40	Adsorption mechanism of single OCN ₂ and SCN ₂ upon single-walled BP nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 59, 66-74	3	10

39	A DFT Study on Structure and Electronic Properties of BN Nanostructures Adsorbed with Dopamine. <i>Computation</i> , 2019 , 7, 61	2.2	9
38	Adsorption of HCOH and H ₂ S molecules on Al ₁₂ P ₁₂ fullerene: a DFT study. <i>Adsorption</i> , 2019 , 25, 235-245.	6	9
37	Theoretical study of nitrogen, boron, and co-doped (B, N) armchair graphene nanoribbons. <i>Journal of Molecular Modeling</i> , 2020 , 26, 64	2	8
36	Computational study of OCN ⁻ chemisorption over AlN nanostructures. <i>Superlattices and Microstructures</i> , 2014 , 72, 370-382	2.8	8
35	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
34	Penicillamine functionalized B ₁₂ N ₁₂ and B ₁₂ CaN ₁₂ 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
33	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
32	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
31	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
30	DFT study of the adsorption of H ₂ O ₂ inside and outside Al ₁₂ N ₁₂ nano-cage. <i>Russian Journal of Physical Chemistry A</i> , 2017 , 91, 1527-1534	0.7	7
29	Influence of the adsorption of toxic agents on the optical and electronic properties of B ₁₂ N ₁₂ fullerene in the presence and absence of an external electric field. <i>New Journal of Chemistry</i> , 2020 , 44, 14513-14528	3.6	7
28	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
27	Molecular Modeling and Simulation of glycine functionalized B ₁₂ N ₁₂ and B ₁₆ N ₁₆ nanoclusters as potential inhibitors of proinflammatory cytokines. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117494	6	7
26	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
25	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
24	A study on the effect of 1-butyl-4-methylpyridinium bromide adsorption on the structural and electronic properties of B ₁₂ N ₁₂ nano-cage. <i>Journal of Molecular Liquids</i> , 2019 , 277, 115-122	6	6
23	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
22	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

21	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
20	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
19	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
18	Antibacterial and Antioxidant Activities and Phytochemical Properties of Punica granatum Flowers in Iran 2018 , 42, 1105-1110		4
17	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
16	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
15	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
14	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
13	Kinetic Stability and Reactivity of Silicon and Fluorine-Containing CL-20 Derivatives. <i>ChemistrySelect</i> , 2019 , 4, 9659-9665	1.8	3
12	The study of thiazole adsorption upon BC2N nanotube: DFT/TD-DFT investigation. <i>Structural Chemistry</i> , 2020 , 31, 1959-1967	1.8	2
11	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
10	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
9	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
8	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
7	Improved Antibacterial Activity of sulfasalazine loaded fullerene derivative: computational and experimental studies. <i>Journal of Molecular Liquids</i> , 2021 , 118083	6	0
6	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
5	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
4	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

- 3 In vitro release and cytotoxicity study of encapsulated sulfasalazine within LTSP micellar/liposomal and TSP micellar/niosomal nano-formulations. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 9749-9756^{6.1} ○
- 2 Effect of adsorption sensitivity of armchair single-walled BN nanotube toward thiocyanate anion: A systematic evaluation of length and diameter effects. *Surfaces and Interfaces*, **2020**, 21, 100693^{4.1}
- 1 Modeling and simulation of external electric field application for diisopropyl methylphosphonate sensing through B12N12 fullerene. *Journal of Molecular Liquids*, **2021**, 340, 116845⁶