

# Ali Morsali

## List of Publications by Year in descending order

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86  
papers

1,245  
citations

361045

20  
h-index

433756

31  
g-index

87  
all docs

87  
docs citations

87  
times ranked

903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of the adsorption mechanism of Flutamide anticancer drug on the functionalized single-walled carbon nanotube surface as a drug delivery vehicle: An alternative theoretical approach based on DFT and MD. <i>Applied Surface Science</i> , 2018, 434, 492-503.	3.1	87
2	New regularities and an equation of state for liquids. <i>Fluid Phase Equilibria</i> , 2005, 230, 170-175.	1.4	64
3	Theoretical study of solvent and co-solvent effects on the interaction of Flutamide anticancer drug with Carbon nanotube as a drug delivery system. <i>Journal of Molecular Liquids</i> , 2017, 248, 490-500.	2.3	60
4	Mechanism and Kinetics of the Wacker Process: A Quantum Mechanical Approach. <i>Organometallics</i> , 2008, 27, 72-79.	1.1	58
5	Assessment of solvent effects on the interaction of Carmustine drug with the pristine and COOH-functionalized single-walled carbon nanotubes: A DFT perspective. <i>Journal of Molecular Liquids</i> , 2017, 240, 87-97.	2.3	52
6	An accurate expression for radial distribution function of the Lennard-Jones fluid. <i>Chemical Physics</i> , 2005, 310, 11-15.	0.9	44
7	S-allyl-3-(2-pyridyl-methylene)dithiocarbazate ligand and its manganese(II), cobalt(III) and nickel(II) complexes. <i>Inorganica Chimica Acta</i> , 2011, 371, 36-41.	1.2	43
8	Quantum chemical studies of chitosan nanoparticles as effective drug delivery systems for 5-fluorouracil anticancer drug. <i>Journal of Molecular Liquids</i> , 2020, 302, 112495.	2.3	43
9	Synthesis, experimental and theoretical characterization of tetra dentate N,N'-dipyridoxyl (1,3-propylenediamine) salen ligand and its Co(III) complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 1341-1347.	2.0	41
10	N,N'-dipyridoxyl Schiff bases: Synthesis, experimental and theoretical characterization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 467-471.	2.0	41
11	Comprehensive quantum chemical insight into the mechanistic understanding of the surface functionalization of carbon nanotube as a nanocarrier with cladribine anticancer drug. <i>Applied Surface Science</i> , 2018, 462, 720-729.	3.1	34
12	H-Transfer steps of the Wacker process: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2009, 903, 108-114.	1.5	31
13	Synthesis, experimental and theoretical characterizations of a new Schiff base derived from 2-pyridincarboxaldehyde and its Ni (II) complex. <i>Journal of Molecular Structure</i> , 2017, 1143, 424-430.	1.8	31
14	Three VO <sup>2+</sup> complexes of the pyridoxal-derived Schiff bases: Synthesis, experimental and theoretical characterizations, and catalytic activity in a cyclocondensation reaction. <i>Journal of Molecular Structure</i> , 2018, 1153, 149-156.	1.8	29
15	The computational study of the $\hat{\gamma}^3\text{-Fe}_{2}\text{O}_{3}$ nanoparticle as Carmustine drug delivery system: DFT approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 454-464.	2.0	28
16	Synthesis, experimental and computational characterizations of a new quinoline derived Schiff base and its Mn(II), Ni(II) and Cu(II) complexes. <i>Journal of Molecular Structure</i> , 2020, 1208, 127898.	1.8	25
17	Green synthesis of zinc oxide and copper oxide nanoparticles using <i>Achillea Nobilis</i> extract and evaluating their antioxidant and antibacterial properties. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	24
18	Synthesis, experimental and theoretical characterization of a Mn(II) complex of N,N'-dipyridoxyl(1,2-diaminobenzene). <i>Journal of Molecular Structure</i> , 2017, 1127, 15-22.	1.8	23

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19	DFT study of SiO <sub>2</sub> nanoparticles as a drug delivery system: structural and mechanistic aspects. <i>Structural Chemistry</i> , 2019, 30, 715-726.	1.0	21
20	Extraordinary catalytic activity of a Keplerate-type giant nanoporous isopolyoxomolybdate in the synthesis of 1,8-dioxo-octahydroxanthenes and 1,8-dioxodecahydroacridines. <i>Research on Chemical Intermediates</i> , 2015, 41, 7815-7826.	1.3	20
21	Molecular mechanism study of surface functionalization of silica nanoparticle as an anticancer drug nanocarrier in aqueous solution. <i>Journal of Molecular Liquids</i> , 2019, 282, 392-400.	2.3	20
22	Theoretical Study of Solvent Effects on the Cis-to-Trans Isomerization of [Pd(C <sub>6</sub> Cl <sub>2</sub> F <sub>3</sub> )(PH <sub>3</sub> ) <sub>2</sub> ]. <i>Journal of Solution Chemistry</i> , 2013, 42, 1902-1911.	0.6	18
23	Treatment of the breast cancer by using low frequency electromagnetic fields and Mn(II) complex of a Schiff base derived from the pyridoxal. <i>Breast</i> , 2018, 41, 107-112.	0.9	18
24	OH bond cleavage step of the Wacker process: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2010, 941, 138-143.	1.5	17
25	Synthesis, experimental and theoretical characterizations of a 1,2,4-triazole Schiff base and its nickel(II) complex. <i>Journal of Molecular Structure</i> , 2019, 1179, 779-786.	1.8	17
26	Quantum mechanical study on the mechanism and kinetics of the hydrolysis of organopalladium Complex [Pd(CNN)P(OMe) <sub>3</sub> ] <sup>+</sup> in low acidity range. <i>Computational and Theoretical Chemistry</i> , 2012, 994, 41-46.	1.1	16
27	Quantum mechanical study on the mechanism and kinetics of the cis-to-trans isomerization of [Pd(C <sub>6</sub> Cl <sub>2</sub> F <sub>3</sub> )(PH <sub>3</sub> ) <sub>2</sub> ]. <i>Inorganica Chimica Acta</i> , 2013, 394, 423-429.	1.2	16
28	A molecular dynamics study on the role of attractive and repulsive forces in internal energy, internal pressure and structure of dense fluids. <i>Chemical Physics</i> , 2007, 331, 332-338.	0.9	15
29	Theoretical and Experimental Studies on the Regioselectivity of Epoxide Ring Opening by Nucleophiles in Nitromethane without any Catalyst: Nucleophilic-Chain Attack Mechanism. <i>Progress in Reaction Kinetics and Mechanism</i> , 2014, 39, 89-102.	1.1	15
30	A DFT investigation of structure, spectroscopic properties and tautomerism of the anticonvulsant drug Lyrica. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 637-642.	2.0	15
31	Quantum chemical analysis of 5-aminolevulinic acid anticancer drug delivery systems: Carbon nanotube, COOH functionalized carbon nanotube and iron oxide nanoparticle. <i>Journal of Molecular Liquids</i> , 2021, 340, 117182.	2.3	14
32	Synthesis, characterization and intramolecular proton transfer of 3,3'-dihydroxy-4,4'-[5-methyl-1,3-phenylenebis(nitrilomethylidene)]-bis-phenol. <i>Journal of Molecular Structure</i> , 2014, 1072, 187-194.	1.8	13
33	Mechanism of the Formation of Palladium(II) Maleate Complex: A DFT Approach. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 73-81.	1.0	13
34	Density functional theory study towards investigating the adsorption properties of the $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles as a nanocarrier for delivery of Flutamide anticancer drug. <i>Adsorption</i> , 2020, 26, 925-939.	1.4	12
35	Surface functionalization of chitosan with 5-nitroisatin. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 534-546.	3.6	12
36	An applied quantum-chemical model for genipin-crosslinked chitosan (GCS) nanocarrier. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1229-1240.	3.6	12

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37	Quantum chemical modeling of iron oxide magnetic nanoparticles functionalized with cytarabine. <i>Chemical Physics Letters</i> , 2019, 719, 12-21.	1.2	11
38	The effect of different alcohols on the Asp23-Lys28 and Asp23-Ala42 salt bridges of the most effective peptide in Alzheimer's disease: Molecular dynamics viewpoints. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 86, 199-208.	1.3	11
39	Evaluation of Pâ€“Vâ€“T differential properties of the Lennard-Jones fluid using radial distribution functions and molecular dynamics. <i>Chemical Physics</i> , 2007, 335, 194-200.	0.9	10
40	Theoretical Investigation on the Kinetics and Mechanism of the Synthesis of Fluorescent 3,8-Disubstituted-3H-Imidazo [4,5-a] Acridine-11-Carbonitriles. <i>Progress in Reaction Kinetics and Mechanism</i> , 2016, 41, 365-370.	1.1	9
41	Experimental and Theoretical Studies on the Tautomerism in 2-Aminopyridines and 2(1H)-Pyridinones: Synthesis of 2-Amino-4-aryl-3-cyano-6-(3,4-dimethoxyphenyl)pyridines and 4-Aryl-3-cyano-6-(3,4-dimethoxyphenyl)-2(1H)-pyridinones. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1873-1878.	1.0	9
42	The sound velocities in dense fluids from distribution functions. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 50-61.	0.4	8
43	QTAIM study of substituent effects on the intramolecular hydrogen bond in 3,3-â€²-dihydroxy-4,4-â€²-[5-methyl-1,3-phenylenebis(nitrilomethylidyne)]-bis-phenol. <i>Journal of Molecular Structure</i> , 2015, 1083, 1-9.	1.8	8
44	Quantum mechanical study of the alkoxide-independent pathway of reductive elimination of Câ€“O from palladium (p-cyanophenyl) neopentoxide complex. <i>Research on Chemical Intermediates</i> , 2015, 41, 5389-5398.	1.3	8
45	Stability appraisalment of the alumina-brine nanofluid in the presence of ionic and non-ionic disparents on the alumina nanoparticles surface as heat transfer fluids: Quantum mechanical study and Taguchi-optimized experimental analysis. <i>Journal of Molecular Liquids</i> , 2020, 319, 113898.	2.3	8
46	Quantum molecular study of mesoporous silica nanoparticle as a delivery system for troxacitabine anticancer drug. <i>Journal of Molecular Liquids</i> , 2020, 310, 113155.	2.3	8
47	The study of self-aggregation behavior of the bilirubin molecules in the presence and absence of carbon nanotubes: Molecular dynamics simulation approach. <i>Journal of Molecular Liquids</i> , 2015, 208, 342-346.	2.3	7
48	Synthesis, experimental and DFT characterization of the 2-((E)-2-[(E)-2,3-Dihydroxybenzylideneamino]-5-methylphenyl)iminiomethyl)-6-hydroxyphenolate and its Ni(II) and Cu(II) complexes. <i>Journal of Molecular Structure</i> , 2017, 1146, 620-628.	1.8	7
49	Role of repulsive forces on self-assembly behavior of amyloid <math display="inline" overflow="scroll" id="d1e748" altimg="si46.gif"> <math>\beta</math>-peptide (1-40): Molecular dynamics simulation approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 513, 524-535.	1.2	7
50	Quantum Mechanical Study of $\text{Fe}^{2+}\text{O}^{3-}$ Nanoparticle as a Nanocarrier for Anticancer Drug Delivery. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 579-592.	1.4	6
51	Comprehension of the role of created hydrogen bonds and adsorption energy in polyamide-nanosilica-Keggin hybrid/ water on enhancement of concrete compressive strength: DFT calculations and experimental investigations. <i>Journal of Molecular Liquids</i> , 2020, 297, 111912.	2.3	6
52	Synthesis, characterization, DFT and antibacterial studies of a novel vitamin B6 Schiff base and its Cu(II) and Zn(II) complexes. <i>Journal of Molecular Structure</i> , 2022, 1248, 131452.	1.8	6
53	A density functional theory investigation of the bromide oxidation mechanism by a vanadium bromoperoxidase model complex. <i>Transition Metal Chemistry</i> , 2010, 35, 939-947.	0.7	5
54	The changes in free energies and entropies from analytical radial distribution functions. <i>Physics and Chemistry of Liquids</i> , 2012, 50, 187-198.	0.4	5

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55	Quantum Mechanical Study on the Mechanistic, Energetic, and Structural Properties of Adsorption of Thioguanine onto Fe <sub>2</sub> O <sub>3</sub> Nanoparticles. Bulletin of the Korean Chemical Society, 2017, 38, 869-874.	1.0	5
56	Does high pressure have any effect on the structure of alpha amylase and its ability to binding to the oligosaccharides having 7 residues? Molecular dynamics study. Journal of Molecular Graphics and Modelling, 2018, 80, 85-94.	1.3	5
57	β-cyclodextrin-lenalidomide anticancer drug delivery nanosystem: A quantum chemical approach. Journal of Molecular Liquids, 2021, 344, 117762.	2.3	5
58	THE HEAT CAPACITIES FROM ANALYTICAL DISTRIBUTION FUNCTIONS. Journal of Theoretical and Computational Chemistry, 2009, 08, 943-956.	1.8	4
59	Study of alpha-amylase and gold nanoparticles interaction at two different temperatures through molecular dynamics. Journal of Molecular Graphics and Modelling, 2019, 88, 273-281.	1.3	4
60	Ultrasonic-assisted synthesis and structural characterization of a novel 3D Pb(II) metal-organic CPs and their nanostructures. Inorganica Chimica Acta, 2020, 508, 119636.	1.2	4
61	Investigation into the Regiochemistry of Some Pyrazoles Derived from 1,3-Dipolar Cycloaddition of Methyl Methacrylate with Some Nitrilimines: A Combined Theoretical and Experimental Study. Chinese Journal of Chemistry, 2011, 29, 1167-1172.	2.6	3
62	A molecular dynamics study on the role of attractive and repulsive forces in excess heat capacity at constant volume of dense fluids. Molecular Physics, 2012, 110, 483-490.	0.8	3
63	Mechanistic, energetic and structural studies of carbon nanotubes functionalised with dihydroartemisinin drug in gas and solution phases. Physics and Chemistry of Liquids, 2018, 56, 610-618.	0.4	3
64	Synthesis, characterization and in vitro evaluation of cytotoxicity and antibacterial properties of vanadyl complexes of the pyridoxal Schiff bases. Journal of Molecular Structure, 2021, 1246, 131189.	1.8	3
65	Multivariate optimization of a novel potentiometric sensor to determine silver ions in real water and pharmacological product samples. Monatshefte für Chemie, 2022, 153, 227-235.	0.9	3
66	A molecular dynamics study on the role of attractive and repulsive forces in isobaric heat capacity and sound velocity of sub- and supercritical dense fluids. Journal of Supercritical Fluids, 2014, 95, 628-634.	1.6	2
67	Synthesis and characterisation of modified carbon nanotubes with potassium salts of the monosubstituted Keggin polyoxometalates. Micro and Nano Letters, 2014, 9, 482-485.	0.6	2
68	Density Functional Theoretical Study on the Mechanism of Alcoholysis of Acylpalladium(II) Complexes. Progress in Reaction Kinetics and Mechanism, 2017, 42, 52-61.	1.1	2
69	Kinetics and mechanism of producing 3,8-dimethyl-3H-imidazo[4,5-a]acridine-11-carbonitrile: a DFT investigation. Research on Chemical Intermediates, 2017, 43, 1829-1846.	1.3	2
70	Acetyl-11-keto-β-boswellic acid derivatives effects on 5-lipoxygenase: In silico viewpoint. Journal of Molecular Graphics and Modelling, 2020, 94, 107464.	1.3	2
71	Perception of the reciprocal influences of the formed interactions and hydrogen bonds, and adsorption energies between zinc-titanate nanoparticles/nano-silica/Dawson heteropolyacid hybrid-water on the positive alternation trends of the strength and properties of ordinary and self-compacting concrete: A systematic study through the quantum mechanical theory and experimental engineering studies. Journal of Molecular Liquids, 2021, 326, 115318.	2.3	2
72	A molecular dynamics study on the liquid SbCl <sub>5</sub> and SbF <sub>5</sub> using force fields derived from quantum chemical calculations. Physics and Chemistry of Liquids, 2013, 51, 695-703.	0.4	1

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73	Quantum mechanical investigation on the hydroxycarbonylation of styrene using a palladium complex catalyst. <i>Progress in Reaction Kinetics and Mechanism</i> , 2016, 41, 215-223.	1.1	1
74	A DFT study on the geometry, tautomerism and noncovalent interactions of the Mepivacaine drug with the pristine SWCNT and $\text{-COOH}$ functionalized SWCNT. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750008.	1.8	1
75	Synthesis, characterisation, optical properties and theoretical calculations of a new fluorescent heterocyclic system: 3- <i>H</i> -benzo[ <i>a</i> ]pyrazolo[3,4- <i>j</i> ]acridine. <i>Journal of Chemical Research</i> , 2017, 41, 371-375.	0.6	1
76	Computational Study of Regioselective Synthesis of Triflylpyrazole by Cycloaddition Reaction between Diphenyl Hydrazonoyl Chloride and Phenyl Triflyl Acetylene. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 271-279.	0.1	1
77	The computational study of the $\text{Fe}_3\text{O}_4$ nanoparticle as Carmustine drug delivery system: DFT approach. , 0, .		1
78	The scrutinised DFT and MD studies on the adsorption of D-penicillamine drug on $\text{Fe}_2\text{O}_3$ nanoparticle as a highly efficient carrier. <i>Molecular Simulation</i> , 2020, 46, 408-418.	0.9	1
79	(E)-4-(((2-amino-5-chlorophenyl)imino)methyl)-5-(hydroxy-methyl)-2-methylpyridin-3-ol and its Cu(II) complex: Synthesis, DFT calculations and AIM analysis. <i>Journal of the Serbian Chemical Society</i> , 2020, 85, 1033-1046.	0.4	1
80	The New Antibacterial Agents Based on the Fused Aromatic Heterocyclic Compounds: Design, Synthesis, and Antibacterial Activity. <i>Russian Journal of General Chemistry</i> , 2022, 92, 732-738.	0.3	1
81	Mechanistic and energetic studies of superparamagnetic iron oxide nanoparticles as a cyclophosphamide anticancer drug nanocarrier: A quantum mechanical approach. <i>Progress in Reaction Kinetics and Mechanism</i> , 2019, 44, 92-101.	1.1	0
82	Quantum-Chemical Modeling of Cyclic Peptide-Selenium Nanoparticle as an Anticancer Drug Nanocarrier. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 23-33.	1.0	0
83	Determination of Protonation Constants of Streptozocin in Different Aqueous Solutions of Methanol: Solvent Effect. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, S71-S76.	0.1	0
84	Geometry, tautomerism and non-covalent interactions of the drug halofuginone with the carbon-nanotube and $\text{Fe}_3\text{O}_4$ nanoparticles: A DFT study. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 305-315.	0.4	0
85	The Effect of Temperature on the Interaction of Phenanthroline-based Ligands with G-quadruplex: In Silico Viewpoint. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2019, 22, 546-554.	0.6	0
86	Non-Covalent Hybridization of Carbon Nanotube by Single-Stranded DNA Homodecamers: in-silico Approach. <i>Russian Journal of Physical Chemistry A</i> , 2022, 96, 145-151.	0.1	0