

Younes Valadbeigi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4401479/publications.pdf>

Version: 2024-02-01

78
papers

695
citations

687220

13
h-index

752573

20
g-index

78
all docs

78
docs citations

78
times ranked

581
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of small gas molecules on B36 nanocluster. Journal of Chemical Sciences, 2015, 127, 2029-2038.	0.7	44
2	DFT, CBS-Q, W1BD and G4MP2 calculation of the proton and electron affinities, gas phase basicities and ionization energies of saturated and unsaturated carboxylic acids (C ₁ to C ₄). International Journal of Quantum Chemistry, 2013, 113, 1717-1721.	1.0	32
3	Study of Atmospheric Pressure Chemical Ionization Mechanism in Corona Discharge Ion Source with and without NH ₃ Dopant by Ion Mobility Spectrometry combined with Mass Spectrometry: A Theoretical and Experimental Study. Journal of Physical Chemistry A, 2019, 123, 313-322.	1.1	31
4	Ion Mobility Spectrometry of Heavy Metals. Analytical Chemistry, 2016, 88, 7324-7328.	3.2	24
5	Design of neutral organic superacids using fulvene derivatives with di-enol substituent. International Journal of Quantum Chemistry, 2017, 117, 190-196.	1.0	24
6	Effect of Hydration on the Kinetics of Proton-Bound Dimer Formation: Experimental and Theoretical Study. Journal of Physical Chemistry A, 2014, 118, 7663-7671.	1.1	22
7	On the significance of hydroxide ion in the electro-oxidation of methanol on Ni. Journal of Electroanalytical Chemistry, 2011, 650, 219-225.	1.9	20
8	Superbasicity of 1,3,5-cycloheptatriene derivatives and their proton sponges in gas phase. Chemical Physics Letters, 2017, 689, 1-7.	1.2	18
9	Design of the strongest organic Brønsted acids in gas phase. Chemical Physics Letters, 2017, 681, 50-55.	1.2	17
10	G4MP2, DFT and CBS-Q calculation of proton and electron affinities, gas phase basicities and ionization energies of hydroxylamines and alkanolamines. Journal of Chemical Sciences, 2014, 126, 1209-1215.	0.7	16
11	Proton affinities and gas phase basicities of epoxides and episulfides: Exceptional superbasicity of compounds with oxygen and sulfur sites. International Journal of Mass Spectrometry, 2018, 431, 63-69.	0.7	15
12	Direct detection of glyphosate in drinking water using corona-discharge ion mobility spectrometry: A theoretical and experimental study. International Journal of Mass Spectrometry, 2019, 442, 29-34.	0.7	15
13	Experimental and theoretical study of the kinetic of proton transfer reaction by ion mobility spectrometry. International Journal of Mass Spectrometry, 2014, 369, 105-111.	0.7	14
14	Theoretical study on the mechanism and kinetics of atmospheric reactions NH ₂ OH + OOH and NH ₂ CH ₃ + OOH. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 777-784.	0.9	13
15	Comparison of effects of charge delocalization and π-electron delocalization on the stability of monocyclic compounds. Journal of Molecular Graphics and Modelling, 2018, 80, 104-112.	1.3	13
16	CBS-Q and DFT calculations of lithium and sodium cations affinities and basicities of 60 organic molecules. Computational and Theoretical Chemistry, 2016, 1091, 169-175.	1.1	12
17	Proton affinities of hydrated molecules. Chemical Physics Letters, 2016, 660, 301-306.	1.2	12
18	Superacidity of P(OH) ₃ and SO(OH) ₂ derivatives of cyclopentadiene and vinylcyclopentadiene in the gas phase: A computational DFT analysis. International Journal of Quantum Chemistry, 2018, 118, e25754.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Effect of Basicity and Structure on the Hydration of Protonated Molecules, Proton-Bound Dimer and Cluster Formation: An Ion Mobility-Time of Flight Mass Spectrometry and Theoretical Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1242-1253.	1.2	12
20	Clustering of H ₂ SO ₄ with BX ₃ (X = H, F, Cl, Br, CN, OH) compounds creates strong acids and superacids. <i>Computational and Theoretical Chemistry</i> , 2019, 1153, 34-43.	1.1	12
21	A Novel Application of Dopants in Ion Mobility Spectrometry: Suppression of Fragment Ions of Citric Acid. <i>Analytical Chemistry</i> , 2020, 92, 7924-7931.	3.2	12
22	Effect of hydration on the stability and tautomerisms of different isomers of uracil. <i>RSC Advances</i> , 2014, 4, 61643-61651.	1.7	11
23	Laser desorption-ion mobility spectrometry as a useful tool for imaging of thin layer chromatography surface. <i>Journal of Chromatography A</i> , 2016, 1459, 145-151.	1.8	11
24	Borane and beryllium derivatives of sulfuric and phosphoric acids: Strong inorganic acids. <i>Computational and Theoretical Chemistry</i> , 2019, 1164, 112550.	1.1	11
25	Effect of the Number of Methyl Groups on the Cation Affinity of Oxygen, Nitrogen, and Phosphorus Sites of Lewis Bases. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9109-9116.	1.1	10
26	Effects of intramolecular hydrogen bond and electron delocalization on the basicity of proton sponges and superbases with benzene, pyridine, pyrazine and pyrimidine scaffolds. <i>Computational and Theoretical Chemistry</i> , 2020, 1188, 112947.	1.1	10
27	Theoretical study on keto-enol tautomerism and isomerization in pyruvic acid. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2372-2378.	1.0	9
28	DFT study on the isomerization and tautomerism in vitamins B3 (niacin), B5 (pantothenic acid) and B7 (biotin). <i>Chemical Physics Letters</i> , 2014, 601, 155-162.	1.2	9
29	Effect of mono- and di-hydration on the stability and tautomerisms of different tautomers of creatinine: A thermodynamic and mechanistic study. <i>Computational and Theoretical Chemistry</i> , 2015, 1061, 27-35.	1.1	9
30	Simple and water-assisted tautomerism in succinimide. <i>Structural Chemistry</i> , 2015, 26, 539-545.	1.0	9
31	Relationship between proton affinities and structures of proton-bound dimers. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 55-63.	0.5	9
32	On the Significance of Lone Pair/Lone Pair and Lone Pair/Bond Pair Repulsions in the Cation Affinity and Lewis Acid/Lewis Base Interactions. <i>ACS Omega</i> , 2018, 3, 11331-11339.	1.6	9
33	A density functional theory study on the superacidity of sulfuric, fluorosulfuric, and triflic acid derivatives with two cyclopentadiene rings: ion pairs formation in the gas phase. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3995.	0.9	9
34	Design of new organic superacids with fused and isolated pyrrole and cyclopentadiene rings and assessment of effect of BX ₂ (X = H, F, Cl, CN) substituents on the acidity enhancement: A DFT analysis. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26144.	1.0	9
35	Small Host-Guest Systems in the Gas Phase: Tartaric Acid as a Host for both Anionic and Cationic Guests in the Atmospheric Pressure Chemical Ionization Source of Ion Mobility Spectrometry. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3386-3397.	1.1	9
36	Is It Possible to Achieve Organic Superbases beyond the Basicity Limit Using Tetrahedrane Scaffolds?. <i>ChemistrySelect</i> , 2020, 5, 5794-5798.	0.7	9

#	ARTICLE	IF	CITATIONS
37	DFT study on the isomerization in vitamin B6. <i>Structural Chemistry</i> , 2014, 25, 1395-1404.	1.0	8
38	Catalysis effect of micro-hydration on the intramolecular proton transfer in cytosine. <i>Chemical Physics Letters</i> , 2015, 629, 1-7.	1.2	8
39	A mathematic model for proton affinity of organic molecules: Effect of size, chain length and nature of surrounding groups on the proton affinity of a site. <i>International Journal of Mass Spectrometry</i> , 2016, 395, 49-52.	0.7	8
40	Directionality of Cation/Molecule Bonding in Lewis Bases Containing the Carbonyl Group. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6810-6822.	1.1	8
41	Organometallic acids with azaborine, oxaborine, azaborole and oxaborole scaffolds. <i>New Journal of Chemistry</i> , 2018, 42, 18777-18786.	1.4	8
42	Ionization energies, electron affinities, and binding energies of Li-doped gold nanoclusters. <i>Research on Chemical Intermediates</i> , 2016, 42, 4921-4936.	1.3	7
43	NICS values in gas phase, implicit solvents and micro-solvated systems. <i>Computational and Theoretical Chemistry</i> , 2017, 1102, 44-50.	1.1	7
44	Strong anion receptors based on antiaromaticity/aromaticity switching. <i>Inorganic Chemistry Communication</i> , 2018, 94, 15-20.	1.8	7
45	Determination of pesticides phosalone and diazinon in pistachio using ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2020, 23, 127-131.	1.4	7
46	Significance of Competitive Reactions in an Atmospheric Pressure Chemical Ionization Ion Source: Effect of Solvent. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 961-973.	1.2	7
47	Theoretical study on the isomerization and tautomerism in barbituric acid. <i>Structural Chemistry</i> , 2014, 25, 1805-1810.	1.0	6
48	Theoretical study on the mechanism and kinetics of atmospheric reactions $C_nH_{2n+2}^+ + NH_3$ ($n = 1-3$). <i>Structural Chemistry</i> , 2015, 26, 383-391.	1.0	6
49	Proton sponges and superbases with nitrogen, phosphorus, arsenic, oxygen, sulfur, and selenium as proton acceptor sites. <i>Chemical Physics Letters</i> , 2020, 754, 137764.	1.2	6
50	Mechanism of atmospheric pressure chemical ionization of morphine, codeine, and thebaine in corona discharge ion mobility spectrometry: Protonation, ammonium attachment, and carbocation formation. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4586.	0.7	6
51	Assessment of the nature of interactions of cations with cycloheptatriene derivatives using change in the aromaticity: Comparison with electron density and NBO results. <i>Molecular Physics</i> , 2020, 118, e1662507.	0.8	5
52	Application of ion mobility spectrometry in study of surfactants adsorbed on different dish surfaces. <i>International Journal for Ion Mobility Spectrometry</i> , 2014, 17, 35-41.	1.4	4
53	Phosphorus-doped nitrogen clusters (N _n P): Stable high energy density materials. <i>Chemical Physics Letters</i> , 2016, 645, 195-199.	1.2	4
54	Determination of MTBE in drinking water using corona discharge ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2017, 20, 15-21.	1.4	4

#	ARTICLE	IF	CITATIONS
55	Thermionic sodium ion source versus corona discharge in detection of alkaloids using ion mobility spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2019, 22, 51-58.	1.4	4
56	Clustering of HClO ₄ with Br ₂ (H ₂ SO ₄ , HClO ₄ ,) <i>Tj ETQq0 0 rgBT /Overlock J Chemistry</i> , 2019, 43, 16932-16944.	1.4	4
57	Online detection and measurement of elemental mercury vapor by ion mobility spectrometry with chloroform dopant. <i>Journal of Chromatography A</i> , 2020, 1634, 461676.	1.8	4
58	Using gas-phase chloride attachment for selective detection of morphine in a morphine/codeine mixture by ion mobility spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9044.	0.7	4
59	Comparison of the positive and negative modes of corona discharge ion source for direct determination of aspirin in urine by ion mobility spectrometry. <i>International Journal of Mass Spectrometry</i> , 2021, 470, 116699.	0.7	4
60	Intramolecular H-transfer in CH ₂ OO and cis-HO ₃ . <i>Structural Chemistry</i> , 2014, 25, 1759-1763.	1.0	3
61	Kinetics, mechanism and thermodynamics of reactions of CH ₃ NHNH ₂ with OOH. <i>Molecular Physics</i> , 2015, 113, 577-583.	0.8	2
62	Kinetics, mechanism and thermodynamics of reactions of hydrazine with CH ₃ and OOH radicals. <i>Research on Chemical Intermediates</i> , 2016, 42, 1181-1194.	1.3	2
63	Effect of Mono- and Di-hydration on the Intramolecular Proton Transfers and Stability of Cyanuric Acid Isomers: A DFT Study. <i>Journal of Chemical Sciences</i> , 2016, 128, 1237-1244.	0.7	2
64	Effect of hydration and structure on the fragmentation of 2,2-(propane-1,3-diyl)bis(isoindoline-1,3-dione) and 2,2-(ethane-1,2-diyl)bis(isoindoline-1,3-dione) in electron impact ionization-mass spectrometry: A theoretical and experimental study. <i>Journal of Molecular Structure</i> , 2020, 1200, 127105.	1.8	2
65	Anion receptors with 1,3,5-triazacyclohexane and 1,4,7,10-tetraazacyclododecane scaffolds. <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4107.	0.9	2
66	Organometallic superacids and hyperacids: Acidity enhancement by internal bonding with a strong electron-pair acceptor group BX ₂ . <i>Chemical Physics Letters</i> , 2021, 763, 138207.	1.2	2
67	Rapid and simple determination of gabapentin in urine by ion mobility spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 197, 113980.	1.4	2
68	Mechanistic studies on the in-situ generation of furoxan ring during the formation of Cu(II) coordination compound from dioxime ligand: Theoretical and experimental study. <i>Inorganica Chimica Acta</i> , 2020, 510, 119756.	1.2	2
69	Theoretical study on the small carbon nano-ladders. <i>Structural Chemistry</i> , 2014, 25, 1601-1606.	1.0	1
70	DFT study on the mechanism of trimolecular radical reactions: isomerisation in small clusters. <i>Molecular Physics</i> , 2016, 114, 2305-2314.	0.8	1
71	Effect of alkali metal cations interactions on the intramolecular proton transfers in [cytosine-X] ⁺ adduct ions, X = S, H, Li, Na, K. <i>Main Group Chemistry</i> , 2018, 17, 147-159.	0.4	1
72	Mechanism of lithiation of amino acids in aqueous solutions: A laser desorption/ionization-time-of-flight mass spectrometry and theoretical study. <i>International Journal of Mass Spectrometry</i> , 2020, 455, 116389.	0.7	1

#	ARTICLE	IF	CITATIONS
73	Acidity enhancement of sulfonic acid derivatives by hydrogen bond networks. Computational and Theoretical Chemistry, 2021, 1193, 113054.	1.1	1
74	DFT Study on the Different Oligomers of Glycerol (n=1-4) in Gas and Aqueous Phases. Journal of the Korean Chemical Society, 2013, 57, 684-690.	0.2	1
75	Effect of ion source polarity and dopants on the detection of auxin plant hormones by ion mobility-mass spectrometry. Analytical and Bioanalytical Chemistry, 2022, 414, 6259-6269.	1.9	1
76	Thermodynamic study of nanoclusters of lead (Pb _n , n=1-6): adsorption of small molecules on the Pb _n clusters. Research on Chemical Intermediates, 2018, 44, 247-264.	1.3	0
77	Adsorption of neutral and protonated Lewis bases on Na ₈ -nanocluster: basicity enhancement of the Lewis bases. Journal of Chemical Sciences, 2018, 130, 1.	0.7	0
78	Formation of anionic clusters of triols in the atmospheric pressure chemical ionization source: An ion mobility spectrometry and theoretical study. Chemical Physics Letters, 2021, 777, 138738.	1.2	0