Younes Valadbeigi

List of Publications by Year
in descending order

78	695	687220 13	752573 20
papers	citations	h-index	g-index

78	78	78	581
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Significance of Competitive Reactions in an Atmospheric Pressure Chemical Ionization Ion Source: Effect of Solvent. Journal of the American Society for Mass Spectrometry, 2022, 33, 961-973.	1.2	7
2	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
3	Organometallic superacids and hyperacids: Acidity enhancement by internal bonding with a strong electron-pair acceptor group BX2. Chemical Physics Letters, 2021, 763, 138207.	1.2	2
4	Acidity enhancement of sulfonic acid derivatives by hydrogen bond networks. Computational and Theoretical Chemistry, 2021, 1193, 113054.	1.1	1
5	Using gasâ€phase chloride attachment for selective detection of morphine in a morphine/codeine mixture by ion mobility spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e9044.	0.7	4
6	Rapid and simple determination of gabapentin in urine by ion mobility spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2021, 197, 113980.	1.4	2
7	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
8	Comparison of the positive and negative modes of corona discharge ion source for direct determination of aspirin in urine by ion mobility spectrometry. International Journal of Mass Spectrometry, 2021, 470, 116699.	0.7	4
9	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. Journal of Molecular Structure, 2020, 1200, 127105.	1.8	2
10	Assessment of the nature of interactions of cations with cycloheptatriene derivatives using change in the aromaticity: Comparison with electron density and NBO results. Molecular Physics, 2020, 118, e1662507.	0.8	5
11	Design of new organic superacids with fused and isolated pyrrole and cyclopentadiene rings and assessment of effect of â€“BX‹sub›2‹/sub› (X = H, F, Cl, CN) substituents on the acidity enhancement: A DFT analysis. International Journal of Quantum Chemistry, 2020, 120, e26144.	1.0	9
12	Proton sponges and superbases with nitrogen, phosphorus, arsenic, oxygen, sulfur, and selenium as proton acceptor sites. Chemical Physics Letters, 2020, 754, 137764.	1.2	6
13	Effects of intramolecular hydrogen bond and electron delocalization on the basicity of proton sponges and superbases with benzene, pyridine, pyrazine and pyrimidine scaffolds. Computational and Theoretical Chemistry, 2020, 1188, 112947.	1.1	10
14	Online detection and measurement of elemental mercury vapor by ion mobility spectrometry with chloroform dopant. Journal of Chromatography A, 2020, 1634, 461676.	1.8	4
15	A Novel Application of Dopants in Ion Mobility Spectrometry: Suppression of Fragment Ions of Citric Acid. Analytical Chemistry, 2020, 92, 7924-7931.	3.2	12
16	Mechanism of atmospheric pressure chemical ionization of morphine, codeine, and thebaine in corona dischargeâ€ion mobility spectrometry: Protonation, ammonium attachment, and carbocation formation. Journal of Mass Spectrometry, 2020, 55, e4586.	0.7	6
17	Determination of pesticides phosalone and diazinon in pistachio using ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2020, 23, 127-131.	1.4	7
18	Mechanism of lithiation of amino acids in aqueous solutions: A laser desorption/ionization-time-of-flight mass spectrometry and theoretical study. International Journal of Mass Spectrometry, 2020, 455, 116389.	0.7	1

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19	Anion receptors with 1,3,5â€triazacyclohexane and 1,4,7,10â€tetraazacyclododecane scaffolds. Journal of Physical Organic Chemistry, 2020, 33, e4107.	0.9	2
20	Small Hostâ€“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. Journal of Physical Chemistry A, 2020, 124, 3386-3397.	1.1	9
21	Is It Possible to Achieve Organic Superbases beyond the Basicity Limit Using Tetrahedrane Scaffolds?. ChemistrySelect, 2020, 5, 5794-5798.	0.7	9
22	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. Inorganica Chimica Acta, 2020, 510, 119756.	1.2	2
23	Borane and beryllium derivatives of sulfuric and phosphoric acids: Strong inorganic acids. Computational and Theoretical Chemistry, 2019, 1164, 112550.	1.1	11
24	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. Journal of Physical Organic Chemistry, 2019, 32, e3995.	0.9	9
25	Thermionic sodium ion source versus corona discharge in detection of alkaloids using ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2019, 22, 51-58.	1.4	4
26	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
27	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. Journal of the American Society for Mass Spectrometry, 2019, 30, 1242-1253.	1.2	12
28	Clustering of H2SO4 with BX3 (Xâ€¯=â€¯H, F, Cl, Br, CN, OH) compounds creates strong acids and superacids. Computational and Theoretical Chemistry, 2019, 1153, 34-43.	1.1	12
29	Clustering of HClO₄ with BrÃ¸nsted (H₂SO₄, HClO₄,) Tj ETQq1 1 0.784314 rgBT O Chemistry, 2019, 43, 16932-16944.	1.4	4
30	Study of Atmospheric Pressure Chemical Ionization Mechanism in Corona Discharge Ion Source with and without NH₃ 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
31	Comparison of effects of charge delocalization and Ï€-electron delocalization on the stability of monocyclic compounds. Journal of Molecular Graphics and Modelling, 2018, 80, 104-112.	1.3	13
32	Thermodynamic study of nanoclusters of lead (Pb n , nÂ=Â1â€“6): adsorption of small molecules on the Pb n clusters. Research on Chemical Intermediates, 2018, 44, 247-264.	1.3	0
33	Organometallic acids with azaborine, oxaborine, azaborole and oxaborole scaffolds. New Journal of Chemistry, 2018, 42, 18777-18786.	1.4	8
34	On the Significance of Lone Pair/Lone Pair and Lone Pair/Bond Pair Repulsions in the Cation Affinity and Lewis Acid/Lewis Base Interactions. ACS Omega, 2018, 3, 11331-11339.	1.6	9
35	Superacidity of ï£¿P(OH)₃ and ï£¿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
36	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

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37	Adsorption of neutral and protonated Lewis bases on $$hbox {Na}_{8}$$ Na 8 -nanocluster: basicity enhancement of the Lewis bases. Journal of Chemical Sciences, 2018, 130, 1.	0.7	0
38	Effect of alkali metal cations interactions on the intramolecular proton transfers in [cytosine-X]+ adduct ions, Xâ€Š=â€ŠH, Li, Na, K. Main Group Chemistry, 2018, 17, 147-159.	0.4	1
39	Strong anion receptors based on antiaromaticity/aromaticity switching. Inorganic Chemistry Communication, 2018, 94, 15-20.	1.8	7
40	NICS values in gas phase, implicit solvents and micro-solvated systems. Computational and Theoretical Chemistry, 2017, 1102, 44-50.	1.1	7
41	Determination of MTBE in drinking water using corona discharge ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2017, 20, 15-21.	1.4	4
42	Design of the strongest organic BrÃ¸nsted acids in gas phase. Chemical Physics Letters, 2017, 681, 50-55.	1.2	17
43	Design of neutral organic superacids using fulvene derivatives with di-enol substituent. International Journal of Quantum Chemistry, 2017, 117, 190-196.	1.0	24
44	Relationship between proton affinities and structures of proton-bound dimers. European Journal of Mass Spectrometry, 2017, 23, 55-63.	0.5	9
45	Directionality of Cation/Molecule Bonding in Lewis Bases Containing the Carbonyl Group. Journal of Physical Chemistry A, 2017, 121, 6810-6822.	1.1	8
46	Superbasicity of 1,3,5-cycloheptatriene derivatives and their proton sponges in gas phase. Chemical Physics Letters, 2017, 689, 1-7.	1.2	18
47	DFT study on the mechanism of trimolecular radical reactions: isomerisation in small clusters. Molecular Physics, 2016, 114, 2305-2314.	0.8	1
48	Kinetics, mechanism and thermodynamics of reactions of hydrazine with CH3 and OOH radicals. Research on Chemical Intermediates, 2016, 42, 1181-1194.	1.3	2
49	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
50	Effect of Mono- and Di-hydration on the Intramolecular Proton Transfers and Stability of Cyanuric Acid Isomers: A DFT Study. Journal of Chemical Sciences, 2016, 128, 1237-1244.	0.7	2
51	Proton affinities of hydrated molecules. Chemical Physics Letters, 2016, 660, 301-306.	1.2	12
52	Effect of the Number of Methyl Groups on the Cation Affinity of Oxygen, Nitrogen, and Phosphorus Sites of Lewis Bases. Journal of Physical Chemistry A, 2016, 120, 9109-9116.	1.1	10
53	Laser desorption-ion mobility spectrometry as a useful tool for imaging of thin layer chromatography surface. Journal of Chromatography A, 2016, 1459, 145-151.	1.8	11
54	Ion Mobility Spectrometry of Heavy Metals. Analytical Chemistry, 2016, 88, 7324-7328.	3.2	24

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55	Phosphorus-doped nitrogen clusters (N P): Stable high energy density materials. Chemical Physics Letters, 2016, 645, 195-199.	1.2	4
56	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. International Journal of Mass Spectrometry, 2016, 395, 49-52.	0.7	8
57	Ionization energies, electron affinities, and binding energies of Li-doped gold nanoclusters. Research on Chemical Intermediates, 2016, 42, 4921-4936.	1.3	7
58	Adsorption of small gas molecules on B36 nanocluster. Journal of Chemical Sciences, 2015, 127, 2029-2038.	0.7	44
59	Catalysis effect of micro-hydration on the intramolecular proton transfer in cytosine. Chemical Physics Letters, 2015, 629, 1-7.	1.2	8
60	Effect of mono- and di-hydration on the stability and tautomerisms of different tautomers of creatinine: A thermodynamic and mechanistic study. Computational and Theoretical Chemistry, 2015, 1061, 27-35.	1.1	9
61	Kinetics, mechanism and thermodynamics of reactions of CH₃NHNH₂ with OOH. Molecular Physics, 2015, 113, 577-583.	0.8	2
62	Simple and water-assisted tautomerism in succinimide. Structural Chemistry, 2015, 26, 539-545.	1.0	9
63	Theoretical study on the mechanism and kinetics of atmospheric reactions C n H2n+2Â+ÂNH2 (nÂ=Â1â€“3). Structural Chemistry, 2015, 26, 383-391.	1.0	6
64	DFT study on the isomerization and tautomerism in vitamins B3 (niacin), B5 (pantothenic acid) and B7 (biotin). Chemical Physics Letters, 2014, 601, 155-162.	1.2	9
65	Application of ion mobility spectrometry in study of surfactants adsorbed on different dish surfaces. International Journal for Ion Mobility Spectrometry, 2014, 17, 35-41.	1.4	4
66	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
67	Effect of hydration on the stability and tautomerisms of different isomers of uracil. RSC Advances, 2014, 4, 61643-61651.	1.7	11
68	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
69	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
70	Theoretical study on the isomerization and tautomerism in barbituric acid. Structural Chemistry, 2014, 25, 1805-1810.	1.0	6
71	Theoretical study on the small carbon nano-ladders. Structural Chemistry, 2014, 25, 1601-1606.	1.0	1
72	Theoretical study on the mechanism and kinetics of atmospheric reactions NH2OH + OOH and NH2CH3 + OOH. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 777-784.	0.9	13

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73	Intramolecular H-transfer in CH2OO and cis-HO3. Structural Chemistry, 2014, 25, 1759-1763.	1.0	3
74	DFT study on the isomerization in vitamin B6. Structural Chemistry, 2014, 25, 1395-1404.	1.0	8
75	DFT, CBSâ€Q, W1BD and G4MP2 calculation of the proton and electron affinities, gas phase basicities and ionization energies of saturated and unsaturated carboxylic acids (C₁â€“C₄). International Journal of Quantum Chemistry, 2013, 113, 1717-1721.	1.0	32
76	Theoretical study on ketoâ€“enol tautomerism and isomerization in pyruvic acid. International Journal of Quantum Chemistry, 2013, 113, 2372-2378.	1.0	9
77	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
78	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