

Jean-Yves Salpin

List of Publications by Year in descending order

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89
papers

2,380
citations

186265

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243625

44
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92
all docs

92
docs citations

92
times ranked

1534
citing authors

#	ARTICLE	IF	CITATIONS
1	A relationship between the kinetics and thermochemistry of proton transfer reactions in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 153, 37-48.	1.8	217
2	Infrared Spectra of Protonated Uracil, Thymine and Cytosine. <i>ChemPhysChem</i> , 2007, 8, 2235-2244.	2.1	128
3	Tautomerism of Uracil Probed via Infrared Spectroscopy of Singly Hydrated Protonated Uracil. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12393-12400.	2.5	96
4	Differentiation of the fucoidan sulfated l-fucose isomers constituents by CE-ESIMS and molecular modeling. <i>Carbohydrate Research</i> , 2006, 341, 598-609.	2.3	80
5	Unimolecular Reactivity of Uracil-Cu ²⁺ Complexes in the Gas Phase. <i>ChemPhysChem</i> , 2007, 8, 181-187.	2.1	64
6	Interaction of Cisplatin with Adenine and Guanine: A Combined IRMPD, MS/MS, and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2013, 135, 1445-1455.	13.7	64
7	Experimental and computational study of the gas-phase interactions between lead(II) ions and two pyrimidic nucleobases: Uracil and thymine. <i>International Journal of Mass Spectrometry</i> , 2005, 243, 279-293.	1.5	63
8	Protonated Urea Collision-Induced Dissociation. Comparison of Experiments and Chemical Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13853-13862.	2.5	60
9	An Experimental and Theoretical Investigation of Gas-Phase Reactions of Ca ²⁺ with Glycine. <i>Chemistry - A European Journal</i> , 2006, 12, 6787-6796.	3.3	57
10	Thermokinetic Determination of Gas-Phase Basicities. Application to Ketene, Methylketene, and Formaldimine. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16555-16560.	2.9	53
11	Structural characterization of hexoses and pentoses using lead cationization. An electrospray ionization and tandem mass spectrometric study. <i>Journal of Mass Spectrometry</i> , 2002, 37, 379-388.	1.6	53
12	Gas-Phase Reactions between Urea and Ca ²⁺ : The Importance of Coulomb Explosions. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10080-10088.	2.5	48
13	Tautomerism of cytosine probed by gas phase IR spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 214-221.	1.5	47
14	Conformational Dynamics in Ion Mobility Data. <i>Analytical Chemistry</i> , 2017, 89, 4230-4237.	6.5	46
15	Interaction of Ca ²⁺ with uracil and its thio derivatives in the gas phase. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3695.	2.8	40
16	Gas-phase basicities of polyfunctional molecules. Part 2: Saturated basic sites. <i>Mass Spectrometry Reviews</i> , 2012, 31, 353-390.	5.4	38
17	Unimolecular reactivity upon collision of uracil-Ca ²⁺ complexes in the gas phase: Comparison with uracil-M ⁺ (M=H, alkali metals) and uracil-M ²⁺ (M=Cu, Pb) systems. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 27-36.	1.5	37
18	Interaction of Cisplatin with 5 ^α -dGMP: A Combined IRMPD and Theoretical Study. <i>Inorganic Chemistry</i> , 2015, 54, 3513-3522.	4.0	37

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19	Gas-Phase Basicity and Heat of Formation of Sulfine CH ₂ SO. <i>Journal of the American Chemical Society</i> , 1996, 118, 6516-6517.	13.7	36
20	Thermochemistry, bonding, and reactivity of Ni ⁺ and Ni ²⁺ in the gas phase. <i>Mass Spectrometry Reviews</i> , 2007, 26, 474-516.	5.4	36
21	Direct Evidence for Tautomerization of the Uracil Moiety within the Pb ²⁺ /Uridine-5- ²⁻ -monophosphate Complex: A Combined Tandem Mass Spectrometry and IRMPD study. <i>Inorganic Chemistry</i> , 2011, 50, 7769-7778.	4.0	35
22	Condensation Reactions between 1,3-Butadiene Radical Cation and Acetylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5778-5786.	2.5	34
23	Gas-phase acidity of D-glucose. A density functional theory study. <i>Journal of Mass Spectrometry</i> , 2004, 39, 930-941.	1.6	34
24	On the gas phase fragmentation of protonated uracil: a statistical perspective. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14980-14990.	2.8	34
25	Re-evaluated gas phase basicity and proton affinity data from the thermokinetic method. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 932-936.	1.5	33
26	Galactose-6-Sulfate collision induced dissociation using QM+MM chemical dynamics simulations and ESI-MS/MS experiments. <i>International Journal of Mass Spectrometry</i> , 2014, 358, 25-35.	1.5	31
27	Elucidating collision induced dissociation products and reaction mechanisms of protonated uracil by coupling chemical dynamics simulations with tandem mass spectrometry experiments. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1340-1351.	1.6	31
28	Gas-phase collision induced dissociation mechanisms of peptides: Theoretical and experimental study of N-formylalanyl amide fragmentation. <i>International Journal of Mass Spectrometry</i> , 2013, 335, 33-44.	1.5	30
29	Gas-Phase Reactivity of Lead(II) Ions with d-Glucose. Combined Electrospray Ionization Mass Spectrometry and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 2943-2953.	2.5	29
30	Gas-phase interactions between lead(II) ions and thiouracil nucleobases: A combined experimental and theoretical study. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 359-369.	2.8	28
31	Structure of the Pb ²⁺ deprotonated dGMP complex in the gas phase: a combined MS-MS/IRMPD spectroscopy/ion mobility study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14127.	2.8	27
32	Selenourea ⁺ Ca ²⁺ Reactions in Gas Phase. Similarities and Dissimilarities with Urea and Thiourea. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5479-5486.	2.6	26
33	Gas-Phase Reactions Between Thiourea and Ca ²⁺ : New Evidence for the Formation of [Ca(NH ₃) ₂] ²⁺ and Other Doubly Charged Species. <i>ChemPhysChem</i> , 2007, 8, 1330-1337.	2.1	25
34	Collision induced dissociation of doubly-charged ions: Coulomb explosion vs. neutral loss in [Ca(urea)] ²⁺ gas phase unimolecular reactivity via chemical dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11724.	2.8	25
35	Gas-Phase Reactivity of Glycosides and Methyl Glycosides with Cu ⁺ , Ag ⁺ and Pb ²⁺ Ions by Fast-Atom Bombardment and Tandem Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2001, 7, 321-330.	1.0	24
36	The Gas-Phase Basicity and Proton Affinity of 1,3,5-Cycloheptatriene ⁺ Energetics, Structure and Interconversion of Dihydrotropylium Ions. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 361-376.	1.0	24

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37	Gas-Phase Reactivity of Silver and Copper Coordinated Monosaccharide Cations Studied by Electrospray Ionization and Tandem Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 377-390.	1.0	23
38	Structure of Pb ²⁺ /dCMP and Pb ²⁺ /CMP complexes as characterized by tandem mass spectrometry and IRMPD spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2011, 304, 154-164.	1.5	23
39	Structures of [M(Ura-H)(H ₂ O) _n] ⁺ (M = Mg, Ca, Sr, Ba; n = 1-3) complexes in the gas phase by IRMPD spectroscopy and theoretical studies. <i>Journal of Mass Spectrometry</i> , 2016, 51, 236-244.	1.6	22
40	Characterization of Protonated Model Disaccharides from Tandem Mass Spectrometry and Chemical Dynamics Simulations. <i>ChemPhysChem</i> , 2017, 18, 2812-2823.	2.1	22
41	Proton Transfers Induced by Lead(II) in a Uracil Nucleobase: A Study Based on Quantum Chemistry Calculations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11684-11694.	2.5	21
42	Modeling the interactions between peptide functions and Sr ²⁺ : formamide-Sr ²⁺ reactions in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18409.	2.8	21
43	Structure of protonated thymidine characterized by infrared multiple photon dissociation and quantum calculations. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1898-1904.	1.5	21
44	Thiosulfoxides (X ₂ S ⁺ ...S) and disulfanes (XSSX):. <i>International Journal of Mass Spectrometry</i> , 2000, 195-196, 239-249.	1.5	20
45	Gas-phase titration of C ₇ H ₉ ⁺ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C ₇ H ₈ isomers and by EI-induced fragmentation of some monoterpenes. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 340-352.	1.5	20
46	Gas-Phase Interactions between Lead(II) Ions and Cytosine: Tandem Mass Spectrometry and Infrared Multiple-Photon Dissociation Spectroscopy Study. <i>ChemPhysChem</i> , 2014, 15, 2959-2971.	2.1	20
47	Cycloaddition reactions between 1,3-butadiene radical cations and ethene in the gas phase. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 325-328.	1.5	19
48	Insights into Cisplatin Binding to Uracil and Thiouracils from IRMPD Spectroscopy and Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 946-960.	2.8	19
49	Gas Phase Reactivity of Ni ⁺ with Urea. <i>Mass Spectrometry and Theoretical Studies. Journal of Physical Chemistry A</i> , 2003, 107, 9865-9874.	2.5	18
50	Structures of bare and singly hydrated [M(Ura-H)(Ura)] ⁺ (M = Mg, Ca, Sr, Ba) complexes in the gas phase by IRMPD spectroscopy in the fingerprint region. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 328-335.	1.5	17
51	Isomer separation and effect of the degree of polymerization on the gas-phase structure of chondroitin sulfate oligosaccharides analyzed by ion mobility and tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 2003-2010.	1.5	17
52	Undervalued N ₃ Coordination Revealed in the Cisplatin Complex with 2'-Deoxyadenosine-5'-monophosphate by a Combined IRMPD and Theoretical Study. <i>Inorganic Chemistry</i> , 2017, 56, 8793-8801.	4.0	17
53	Characterization of the glycosidic linkage of underivatized disaccharides by interaction with Pb ²⁺ ions. <i>Journal of Mass Spectrometry</i> , 2007, 42, 999-1011.	1.6	16
54	Modelling peptide-metal dication interactions: formamide-Ca ²⁺ reactions in the gas phase. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7552.	2.8	16

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55	The gas-phase basicities of 6-methylfulvene and 6,6- dimethylfulvene as determined by the thermokinetic method. <i>European Journal of Mass Spectrometry</i> , 1999, 5, 441.	0.7	15
56	Formation and Characterization of Acetonitrile N-Methylide $[CH_3CNCH_2]^+$ and N-Methylketenimine $[CH_3NCCH_2]^+$ Radical Cations in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 1998, 102, 861-869.	2.5	14
57	Optimization of extended basis sets and assessment of different theoretical schemes for Pb containing compounds. <i>Chemical Physics Letters</i> , 2004, 383, 561-565.	2.6	14
58	Computational study on the kinetics of the reaction between Ca^{2+} and urea. <i>Chemical Physics Letters</i> , 2008, 456, 156-161.	2.6	14
59	Modeling Interactions between an Amino Acid and a Metal Dication: Cysteine-Calcium(II) Reactions in the Gas Phase. <i>ChemPlusChem</i> , 2013, 78, 1124-1133.	2.8	13
60	Reactivity of lanthanoid mono-cations with ammonia: A combined inductively coupled plasma mass spectrometry and computational investigation. <i>International Journal of Mass Spectrometry</i> , 2013, 334, 27-37.	1.5	12
61	Structures of $[M(Ura-H)(Ura)]^+$ and $[M(Ura-H)(H_2O)_n]^+$ ($M = Cu, Zn, Pb; n = 1-3$) complexes in the gas phase by IRMPD spectroscopy in the fingerprint region and theoretical studies. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 56-65.	1.5	12
62	Protonation Thermochemistry of Ethyl Halides. <i>ChemPhysChem</i> , 2001, 2, 604-610.	2.1	11
63	Isomerization of Acetonitrile N-Methylide $[CH_3CNCH_2]^+$ and N-Methylketenimine $[CH_3NCCH_2]^+$ Radical Cations in the Gas Phase: Theoretical Study of the $[C_3H_5N]^+$ Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 1999, 103, 938-946.	2.5	10
64	Low Energy Dissociation Processes of Ionized Cyclohexene: A Theoretical Insight. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9853-9862.	2.5	10
65	Sr^{2+} -neutral molecules interactions: An assessment of theoretical procedures. <i>Chemical Physics Letters</i> , 2008, 464, 240-244.	2.6	10
66	Ni^{+} reactions with aminoacetonitrile, a potential prebiological precursor of glycine. <i>Journal of Mass Spectrometry</i> , 2008, 43, 317-326.	1.6	9
67	Gas-phase interactions of organotin compounds with glycine. <i>Journal of Mass Spectrometry</i> , 2013, 48, 795-806.	1.6	9
68	Protonation of methyluracils in the gas phase: The particular case of 3-methyluracil. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 47-55.	1.5	9
69	Proton affinity and heat of formation of vinylimine $CH_2=CHCH=NH$. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1195-1200.	1.5	8
70	Effects of calcium complexation on heparin-like disaccharides. A combined theoretical, tandem mass spectrometry and ultraviolet experiment. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1135-1144.	1.5	8
71	Interactions of Dimethyltin(IV) with Uracil As Studied in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2018, 122, 992-1003.	2.5	7
72	Cyclopentenyl cation: its thermochemistry and its characterized formation from $C_6H_{10}^+$ species. <i>Chemical Physics Letters</i> , 2002, 366, 510-519.	2.6	6

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73	Ni ⁺ Reactions with Aminoacrylonitrile, A Species of Potential Astrochemical Relevance. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10509-10515.	2.5	6
74	Unimolecular Reactivity of the [Urea-Sr] ²⁺ Complex, a Metastable Dication in the Gas Phase: An Experimental and Theoretical Perspective. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2088-2095.	2.6	6
75	Topology and Electronic Density Driven Generation of Alkali Cation Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 8656-8663.	3.3	6
76	Intertwined Detection and Recognition Roles of Tetrazine in Synergistic Anion-π and H-bond Based Anion Receptor. <i>ChemPhysChem</i> , 2020, 21, 1249-1257.	2.1	6
77	How Can f-Block Monocations Behave as Monocations of d-Block Transition Metals?. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3551-3555.	2.0	5
78	Combined Experimental and Theoretical Survey of the Gas-Phase Reactions of Serine-Ca ²⁺ Adducts. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6241-6250.	2.5	5
79	Alkylation of uracil and thymine in the gas phase through interaction with alkylmercury compounds. <i>International Journal of Mass Spectrometry</i> , 2019, 436, 153-165.	1.5	5
80	Design and property investigation on a five-interaction-based fluorescent anion receptor clip. <i>RSC Advances</i> , 2021, 11, 9476-9487.	3.6	5
81	Kinetic study of azobenzene <i>E/Z</i> isomerization using ion mobility-mass spectrometry and liquid chromatography-UV detection. <i>Analyst</i> , 2020, 145, 4012-4020.	3.5	4
82	Dereplication of Acetogenins from <i>Annona muricata</i> by Combining Tandem Mass Spectrometry after Lithium and Copper Postcolumn Cationization and Molecular Networks. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 627-634.	2.8	4
83	Ionized vinylamine: a specific reagent for the determination of olefinic bond position by ion/molecule reactions. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1001-1006.	1.5	2
84	Gas-phase interactions of organotin compounds with cysteine. <i>Journal of Mass Spectrometry</i> , 2016, 51, 1006-1015.	1.6	2
85	Helically shaped cation receptor: design, synthesis, characterisation and first application to ion transport. <i>RSC Advances</i> , 2020, 10, 31670-31679.	3.6	2
86	Ca ²⁺ Reactivity in the Gas Phase. Bonding, Catalytic Effects and Coulomb Explosions. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 1-33.	0.6	2
87	Discrimination of sulfated isomers of chondroitin sulfate disaccharides by HILIC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7107-7117.	3.7	2
88	Negative ion photoelectron spectroscopy of the copper-aspartic acid anion and its hydrated complexes. <i>Journal of Chemical Physics</i> , 2010, 133, 084303.	3.0	1
89	Identification of acylation products in SHAPE chemistry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2506-2509.	2.2	1