

Jean Christophe Pouilly

List of Publications by Year in descending order

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52
papers

585
citations

623734

14
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677142

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53
all docs

53
docs citations

53
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Signature of DNA G-Quadruplexes in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2008, 130, 1810-1811.	13.7	63
2	On the survival of peptide cations after electron capture: Role of internal hydrogen bonding and microsolvation. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1675-1680.	2.8	50
3	Evaluation of MP2, DFT, and DFT-D Methods for the Prediction of Infrared Spectra of Peptides. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6301-6307.	2.5	45
4	A Multicoincidence Study of Fragmentation Dynamics in Collision of β -Alanine with Low-Energy Ions. <i>Chemistry - A European Journal</i> , 2012, 18, 9321-9332.	3.3	44
5	Electron capture induced dissociation of peptide ions: Identification of neutral fragments from secondary collisions with cesium vapor. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 66-70.	1.5	37
6	Combining ion mobility mass spectrometry and infrared multiphoton dissociation spectroscopy to probe the structure of gas-phase vancomycin-Ac2LKDADA non-covalent complex. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 28-35.	1.5	22
7	Proton irradiation of DNA nucleosides in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7172-7180.	2.8	22
8	Gas-Phase Structure of Amyloid- β (12-28) Peptide Investigated by Infrared Spectroscopy, Electron Capture Dissociation and Ion Mobility Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1937-1949.	2.8	18
9	Ion interaction with biomolecular systems and the effect of the environment. <i>Journal of Physics: Conference Series</i> , 2012, 373, 012005.	0.4	17
10	Dosimetry for radiobiology experiments at GANIL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 816, 70-77.	1.6	17
11	Radical-driven processes within a peptidic sequence of type I collagen upon single-photon ionisation in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22895-22904.	2.8	17
12	Direct Radiation Effects on the Structure and Stability of Collagen and Other Proteins. <i>ChemBioChem</i> , 2019, 20, 2972-2980.	2.6	17
13	Probing the specific interactions and structures of gas-phase vancomycin antibiotics with cell-wall precursor through IRMPD spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3606.	2.8	16
14	Formation of anions and cations via a binary-encounter process in OH^+ collisions: The role of dissociative excitation and statistical aspects. <i>Physical Review A</i> , 2014, 89, .	2.5	15
15	Formation and Fragmentation of Protonated Molecules after Ionization of Amino Acid and Lactic Acid Clusters by Collision with Ions in the Gas Phase. <i>ChemPhysChem</i> , 2015, 16, 2389-2396.	2.1	14
16	Influence of temperature and crown ether complex formation on the charge partitioning between z and c fragments formed after electron capture by small peptide dications. <i>International Journal of Mass Spectrometry</i> , 2009, 282, 21-27.	1.5	11
17	Single-photon absorption of isolated collagen mimetic peptides and triple-helix models in the VUV-X energy range. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18321-18329.	2.8	11
18	Evaluation of the ONIOM Method for Interpretation of Infrared Spectra of Gas-Phase Molecules of Biological Interest. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8020-8026.	2.5	10

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19	Multi-photon and electron impact ionisation studies of reactivity in adenine-water clusters. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 194-199.	1.5	10
20	Isolated Collagen Mimetic Peptide Assemblies Have Stable Triple-Helix Structures. <i>Chemistry - A European Journal</i> , 2018, 24, 13728-13733.	3.3	10
21	Anion emission from water molecules colliding with positive ions: Identification of binary and many-body processes. <i>Physical Review A</i> , 2015, 91, .	2.5	9
22	Threshold behavior in metastable dissociation of multi-photon ionized thymine and uracil. <i>Chemical Physics Letters</i> , 2017, 684, 233-238.	2.6	9
23	Photodissociation of dinucleotide ions in a storage ring. <i>Physical Review A</i> , 2007, 75, .	2.5	8
24	Stabilities of nanohydrated thymine radical cations: insights from multiphoton ionization experiments and ab-initio calculations. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	8
25	Evaluation of polarizable continuum model for the prediction of vibrational frequencies of biomimetic molecules in solution. <i>Computational and Theoretical Chemistry</i> , 2011, 966, 220-224.	2.5	7
26	Coupling infrared multiphoton dissociation spectroscopy, mass-spectrometry and ion mobility spectrometry for the determination of structures of angiotensin II cations. <i>Vibrational Spectroscopy</i> , 2011, 56, 105-109.	2.2	7
27	Hole Migration in Telomere-Based Oligonucleotide Anions and Quadruplexes. <i>Chemistry - A European Journal</i> , 2019, 25, 16114-16119.	3.3	7
28	Photoinduced Processes within Noncovalent Complexes Involved in Molecular Recognition. <i>Chemistry - A European Journal</i> , 2020, 26, 2243-2250.	3.3	7
29	Structure and dynamics of molecules of pharmaceutical interest in gas phase and in aqueous phase. <i>Physica Scripta</i> , 2008, 78, 058123.	2.5	6
30	Intrinsic Neutral and Anionic Structures of Glutathione. <i>ChemPhysChem</i> , 2009, 10, 3097-3100.	2.1	6
31	Stability of multiply-charged biomolecular clusters formed upon interaction with low-energy highly charged ions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 181-186.	1.5	6
32	Irradiation of isolated collagen mimetic peptides by x rays and carbon ions at the Bragg-peak energy. <i>Physical Review A</i> , 2018, 98, .	2.5	6
33	Mass Spectral Signatures of Complex Post-Translational Modifications in Proteins: A Proof-of-Principle Based on X-ray Irradiated Vancomycin. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1738-1743.	2.8	6
34	Nanosolvation by acetonitrile and 18-crown-6 ether induce strongly different effects on the electron-capture induced dissociation of aromatic tripeptide cations in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2013, 337, 1-11.	1.5	5
35	Thermal desorption effects on fragment ion production from multi-photon ionized uridine and selected analogues. <i>RSC Advances</i> , 2021, 11, 20612-20621.	3.6	5
36	Fragmentation processes of ionized 5-fluorouracil in the gas phase and within clusters. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	4

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37	Multiple valence electron detachment following Auger decay of inner-shell vacancies in gas-phase DNA. <i>Chemical Science</i> , 2021, 12, 13177-13186.	7.4	4
38	A collision process responsible for widespread formation of H anions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 102024.	0.4	3
39	A tandem mass spectrometer for crossed-beam irradiation of mass-selected molecular systems by keV atomic ions. <i>Review of Scientific Instruments</i> , 2018, 89, 043104.	1.3	2
40	Anion and cation emission from water molecules after collisions with 6.6-keV O^{16+} ions. <i>Physical Review A</i> , 2019, 100, .	2.5	2
41	X-ray photoabsorption-induced processes within protonated rifamycin sodium salts in the gas phase. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	2
42	Fragmentation dynamics of complex molecules and their clusters. , 2013, , .		0
43	Two- and many-body effects in cation emission from H_2O molecules by O^{+} impact at keV energies: Similarities between ionization of atoms and proton emission from molecules. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032118.	0.4	0
44	Formation and fragmentation of protonated molecules after ionization of molecular clusters with multiply charged ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072081.	0.4	0
45	Anion emission from H_2O molecules colliding with positive O^{+} ions at keV energies: the role of dissociative excitation. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032108.	0.4	0
46	Anion and cation emission via binary-encounters in OH^{++} Ar collisions: The role of dissociative excitation and statistical aspects. <i>Journal of Physics: Conference Series</i> , 2015, 635, 022066.	0.4	0
47	Comparison between anion and cation emission from CH_4 molecules colliding with 10.5-keV C^{+} ions: fragment-energy aspects. <i>Journal of Physics: Conference Series</i> , 2017, 875, 102013.	0.4	0
48	Frontispiece: Isolated Collagen Mimetic Peptide Assemblies Have Stable Triple-Helix Structures. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
49	Influence of ionizing radiation on molecular recognition in the gas phase: VUV and X-ray photoabsorption of antibiotic-receptor non-covalent complexes. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 152061.	0.4	0
50	A new experimental setup to measure absolute cross section for electron emission from atoms, molecules or nanoparticles upon ion collisions. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 152088.	0.4	0
51	Chemical Processes Involving 18-Crown-6 Ether in Activated Noncovalent Complexes with Protonated Peptides. <i>ChemPhysChem</i> , 2021, 22, 1243-1250.	2.1	0
52	Absolute cross section for electron emission from uracil upon ion collision using velocity map imaging technique. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 152087.	0.4	0