

# Jeffrey D Steill

## List of Publications by Year in descending order

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56  
papers

2,154  
citations

201385

27  
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233125

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docs citations

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times ranked

1813  
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#	ARTICLE	IF	CITATIONS
1	Structure and Stability of Phenoxide and Fluorophenoxide Anions Investigated with Infrared Multiple-Photon Dissociation and Detachment Spectroscopy and Tandem Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8597-8605.	1.1	4
2	Structure and Reactivity of the Distonic and Aromatic Radical Cations of Tryptophan. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 513-523.	1.2	21
3	Rotational Alignment of NO ( $A^{2\Sigma^+}$ ) from Collisions with Ne. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8163-8174.	1.1	23
4	Metal Cation Binding to Gas-Phase Pentaalanine: Divalent Ions Restructure the Complex. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1094-1101.	1.1	23
5	Collisions of electronically excited molecules: differential cross-sections for rotationally inelastic scattering of NO( $A^{2\Sigma^+}$ ) with Ar and He. <i>Molecular Physics</i> , 2012, 110, 1693-1703.	0.8	23
6	Multipodal coordination of a tetracarboxylic crown ether with NH <sub>4</sub> <sup>+</sup> : A vibrational spectroscopy and computational study. <i>Journal of Chemical Physics</i> , 2012, 136, 114301.	1.2	8
7	Non-Equilibrium Isomer Distribution of the Gas-Phase Photoactive Yellow Protein Chromophore. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2259-2263.	2.1	63
8	On the path to glycan conformer identification: Gas-phase study of the anomers of methyl glycosides of N-acetyl-d-glucosamine and N-acetyl-d-galactosamine. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 285-294.	0.7	26
9	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Histidine: Effects of Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1532-1541.	1.1	59
10	Infrared multiple photon dissociation spectroscopy of protonated histidine and 4-phenyl imidazole. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 6-15.	0.7	19
11	Structures of the $\alpha_2$ ions of Ala-Ala-Ala and Phe-Phe-Phe. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 254-261.	0.7	11
12	Stability of Gas-Phase Tartaric Acid Anions Investigated by Quantum Chemistry, Mass Spectrometry, and Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4789-4800.	1.1	7
13	Peptide Bond Tautomerization Induced by Divalent Metal Ions: Characterization of the Iminol Configuration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4591-4593.	7.2	41
14	Encapsulation of Metal Cations by the PhePhe Ligand: A Cationic Ion Cage. <i>Journal of the American Chemical Society</i> , 2011, 133, 9376-9386.	6.6	63
15	Infrared Spectroscopy of Divalent Zinc and Cadmium Crown Ether Systems. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5408-5422.	1.1	42
16	Chirality-Induced Conformational Preferences in Peptide-Metal Ion Binding Revealed by IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 1212-1215.	6.6	68
17	Infrared Multiple Photon Dissociation Action Spectroscopy and Computational Studies of Mass-Selected Gas-Phase Fluorescein and 7-Dichlorofluorescein Ions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9739-9747.	1.1	23
18	H <sub>2</sub> EJECTION FROM POLYCYCLIC AROMATIC HYDROCARBONS: INFRARED MULTIPHOTON DISSOCIATION STUDY OF PROTONATED ACENAPHTHENE AND 9,10-DIHYDROPHENANTHRENE. <i>Astrophysical Journal</i> , 2011, 727, 12.	1.6	24

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19	Spectroscopically resolved competition between dissociation and detachment from nitrobenzene radical anion. <i>International Journal of Mass Spectrometry</i> , 2011, 308, 239-252.	0.7	15
20	Direct evidence for the ring opening of monosaccharide anions in the gas phase: photodissociation of aldohexoses and aldohexoses derived from disaccharides using variable-wavelength infrared irradiation in the carbonyl stretch region. <i>Carbohydrate Research</i> , 2011, 346, 2469-2481.	1.1	23
21	Crown Ether Complexes with $H_3O^+$ and $NH_4^+$ : Proton Localization and Proton Bridge Formation. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7275-7282.	1.1	55
22	Structural characterization by infrared multiple photon dissociation spectroscopy of protonated gas-phase ions obtained by electrospray ionization of cysteine and dopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2463-2473.	1.9	22
23	Infrared multiple-photon dissociation spectroscopy of group II metal complexes with salicylate. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1837-1846.	0.7	9
24	Cyclic peptide as reference system for b ion structural analysis in the gas phase. <i>Journal of Mass Spectrometry</i> , 2011, 46, 1011-1015.	0.7	22
25	Structure and Reactivity of the Cysteine Methyl Ester Radical Cation. <i>Chemistry - A European Journal</i> , 2011, 17, 873-879.	1.7	40
26	Infrared spectroscopy of ionized corannulene in the gas phase. <i>Journal of Chemical Physics</i> , 2011, 134, 054310.	1.2	24
27	Emergence of Symmetry and Chirality in Crown Ether Complexes with Alkali Metal Cations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7048-7054.	1.1	64
28	The structure of deprotonated tri-alanine and its $a_3^+$ fragment anion by IR spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 698-706.	1.2	22
29	Oxazolone versus macrocycle structures for leu-enkephalin $b_2^+$ and $b_4^+$ : Insights from infrared multiple-photon dissociation spectroscopy and gas-phase hydrogen/deuterium exchange. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1313-1321.	1.2	42
30	Infrared multiple photon dissociation spectroscopy of cationized cysteine: Effects of metal cation size on gas-phase conformation. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 9-17.	0.7	71
31	Conformations and vibrational spectroscopy of metal-ion/poly(l-alanine) complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 107-115.	0.7	42
32	Infrared multiple photon dissociation spectroscopy of sodium and potassium chlorate anions. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 232-238.	0.7	3
33	Dissociation of dicarboxylate and disulfonate dianions. <i>Journal of Chemical Physics</i> , 2010, 132, 094301.	1.2	10
34	IR Spectra of Boron-Stabilized Anions in the Gas Phase. <i>Inorganic Chemistry</i> , 2010, 49, 6781-6783.	1.9	13
35	Structure of $[M + H_2O]^+$ from Protonated Tetraglycine Revealed by Tandem Mass Spectrometry and IRMPD Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5076-5082.	1.1	30
36	$a_2$ Ion Derived from Triglycine: An $N_1$ -Protonated 4-Imidazolidinone. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 868-872.	2.1	42

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37	Cationized phenylalanine conformations characterized by IRMPD and computation for singly and doubly charged ions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13383.	1.3	50
38	Gas-phase IR spectra of intact $\alpha$ -helical coiled coil protein complexes. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 161-168.	0.7	18
39	Spectroscopic evidence for mobilization of amide position protons during CID of model peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1841-1845.	1.2	16
40	Gas-phase infrared spectroscopy of the protonated dipeptides H <sup>+</sup> PheAla and H <sup>+</sup> AlaPhe compared to condensed-phase results. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 77-84.	0.7	27
41	Infrared multiphoton dissociation spectrum of isolated protonated 1-azapyrene. <i>Chemical Physics Letters</i> , 2009, 473, 43-48.	1.2	12
42	Dimeric Complexes of Tryptophan with M <sup>2+</sup> Metal Ions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 845-851.	1.1	57
43	Spectroscopic Investigation of the Gas-Phase Conformations of 15-Crown-5 Ether Complexes with K <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2009, 113, 7748-7752.	1.1	29
44	Action Spectroscopy of Gas-Phase Carboxylate Anions by Multiple Photon IR Electron Detachment/Attachment. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4941-4946.	1.1	30
45	H <sub>2</sub> <sup>+</sup> Ejection from Polycyclic Aromatic Hydrocarbons: Infrared Multiphoton Dissociation Study of Protonated 1,2-Dihydronaphthalene. <i>Journal of the American Chemical Society</i> , 2009, 131, 5784-5791.	6.6	33
46	Structures of Protonated Dipeptides: The Role of Arginine in Stabilizing Salt Bridges. <i>Journal of the American Chemical Society</i> , 2009, 131, 11442-11449.	6.6	77
47	Gas-Phase IR Spectroscopy of Deprotonated Amino Acids. <i>Journal of the American Chemical Society</i> , 2009, 131, 4310-4319.	6.6	167
48	Changes in Binding Motif of Protonated Heterodimers Containing Valine and Amines Investigated Using IRMPD Spectroscopy between 800 and 3700 cm <sup>-1</sup> and Theory. <i>Journal of the American Chemical Society</i> , 2009, 131, 3905-3912.	6.6	21
49	Conformation Switching in Gas-Phase Complexes of Histidine with Alkaline Earth Ions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10403-10408.	1.2	63
50	Effect of Peptide Fragment Size on the Propensity of Cyclization in Collision-Induced Dissociation: Oligoglycine b <sub>2</sub> <sup>+</sup> -b <sub>8</sub> <sup>+</sup> . <i>Journal of the American Chemical Society</i> , 2009, 131, 18272-18282.	6.6	86
51	Peptide Length, Steric Effects, and Ion Solvation Govern Zwitterion Stabilization in Barium-Chelated Di- and Tripeptides. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10552-10554.	1.2	62
52	Gas-Phase Deprotonation of <i>p</i> -Hydroxybenzoic Acid Investigated by IR Spectroscopy: Solution-Phase Structure Is Retained upon ESI. <i>Journal of the American Chemical Society</i> , 2009, 131, 13570-13571.	6.6	113
53	Free Carboxylate Stretching Modes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3281-3283.	1.1	118
54	IR spectroscopy of gas-phase C <sub>60</sub> <sup>+</sup> . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6862.	1.3	18

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55	Conformational Preferences of an Amyloidogenic Peptide: IR Spectroscopy of Ac-VQIVYK-NHMe. Journal of the American Chemical Society, 2008, 130, 14640-14650.	6.6	43
56	Gas-phase infrared multiple photon dissociation spectroscopy of isolated SF <sub>6</sub> <sup>-</sup> and SF <sub>5</sub> <sup>-</sup> anions. Journal of Chemical Physics, 2008, 129, 244302.	1.2	12