

# Jeffrey D Steill

## List of Publications by Year in descending order

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56  
papers

2,154  
citations

201674

27  
h-index

233421

45  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1813  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-Phase IR Spectroscopy of Deprotonated Amino Acids. <i>Journal of the American Chemical Society</i> , 2009, 131, 4310-4319.	13.7	167
2	Free Carboxylate Stretching Modes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3281-3283.	2.5	118
3	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.	13.7	113
4	Effect of Peptide Fragment Size on the Propensity of Cyclization in Collision-Induced Dissociation: Oligoglycine $b_2^+$ . <i>Journal of the American Chemical Society</i> , 2009, 131, 18272-18282.	13.7	86
5	Structures of Protonated Dipeptides: The Role of Arginine in Stabilizing Salt Bridges. <i>Journal of the American Chemical Society</i> , 2009, 131, 11442-11449.	13.7	77
6	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.	1.5	71
7	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.	13.7	68
8	Emergence of Symmetry and Chirality in Crown Ether Complexes with Alkali Metal Cations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7048-7054.	2.5	64
9	Conformation Switching in Gas-Phase Complexes of Histidine with Alkaline Earth Ions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10403-10408.	2.6	63
10	Encapsulation of Metal Cations by the PhePhe Ligand: A Cation $\text{M}^+$ Ion Cage. <i>Journal of the American Chemical Society</i> , 2011, 133, 9376-9386.	13.7	63
11	Non-Equilibrium Isomer Distribution of the Gas-Phase Photoactive Yellow Protein Chromophore. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2259-2263.	4.6	63
12	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.	2.6	62
13	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.	2.5	59
14	Dimeric Complexes of Tryptophan with $M^{2+}$ Metal Ions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 845-851.	2.5	57
15	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.	2.5	55
16	Cationized phenylalanine conformations characterized by IRMPD and computation for singly and doubly charged ions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13383.	2.8	50
17	Conformational Preferences of an Amyloidogenic Peptide: IR Spectroscopy of Ac-VQIVYK-NHMe. <i>Journal of the American Chemical Society</i> , 2008, 130, 14640-14650.	13.7	43
18	Oxazolone versus macrocycle structures for leu-enkephalin $b_2^+$ : 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.	2.8	42

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19	Conformations and vibrational spectroscopy of metal-ion/polyalalanine complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 107-115.	1.5	42
20	$\text{a}^{2+}$ Ion Derived from Triglycine: An $\text{N}^1$ -Protonated 4-Imidazolidinone. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 868-872.	4.6	42
21	Infrared Spectroscopy of Divalent Zinc and Cadmium Crown Ether Systems. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5408-5422.	2.5	42
22	Peptide Bond Tautomerization Induced by Divalent Metal Ions: Characterization of the Iminol Configuration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4591-4593.	13.8	41
23	Structure and Reactivity of the Cysteine Methyl Ester Radical Cation. <i>Chemistry - A European Journal</i> , 2011, 17, 873-879.	3.3	40
24	$\text{H}^{2+}$ 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.	13.7	33
25	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.	2.5	30
26	Structure of $[\text{M} + \text{H}^{\text{H}^{2+}\text{O}}]^{++}$ from Protonated Tetraglycine Revealed by Tandem Mass Spectrometry and IRMPD Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5076-5082.	2.5	30
27	Spectroscopic Investigation of the Gas-Phase Conformations of 15-Crown-5 Ether Complexes with $\text{K}^+$ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 7748-7752.	2.5	29
28	Gas-phase infrared spectroscopy of the protonated dipeptides $\text{H}^+\text{PheAla}$ and $\text{H}^+\text{AlaPhe}$ compared to condensed-phase results. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 77-84.	1.5	27
29	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.	1.5	26
30	$\text{H}^{2+}$ EJECTION FROM POLYCYCLIC AROMATIC HYDROCARBONS: INFRARED MULTIPHOTON DISSOCIATION STUDY OF PROTONATED ACENAPHTHENE AND 9,10-DIHYDROPHENANTHRENE. <i>Astrophysical Journal</i> , 2011, 727, 12.	4.5	24
31	Infrared spectroscopy of ionized corannulene in the gas phase. <i>Journal of Chemical Physics</i> , 2011, 134, 054310.	3.0	24
32	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.	2.5	23
33	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.	2.3	23
34	Collisions of electronically excited molecules: differential cross-sections for rotationally inelastic scattering of $\text{NO}(\text{A}^{2+}\hat{\text{f}}^{+})$ with Ar and He. <i>Molecular Physics</i> , 2012, 110, 1693-1703.	1.7	23
35	Rotational Alignment of $\text{NO}(\text{A}^{2+}\hat{\text{f}}^{+})$ from Collisions with Ne. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8163-8174.	2.5	23
36	Metal Cation Binding to Gas-Phase Pentaalanine: Divalent Ions Restructure the Complex. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1094-1101.	2.5	23

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37	The structure of deprotonated tri-alanine and its $\text{[3+1]}$ fragment anion by IR spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 698-706.	2.8	22
38	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.	3.7	22
39	Cyclic peptide as reference system for b ion structural analysis in the gas phase. <i>Journal of Mass Spectrometry</i> , 2011, 46, 1011-1015.	1.6	22
40	Changes in Binding Motif of Protonated Heterodimers Containing Valine and Amines Investigated Using IRMPD Spectroscopy between 800 and 3700 $\text{cm}^{-1}$ and Theory. <i>Journal of the American Chemical Society</i> , 2009, 131, 3905-3912.	13.7	21
41	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.	2.8	21
42	Infrared multiple photon dissociation spectroscopy of protonated histidine and 4-phenyl imidazole. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 6-15.	1.5	19
43	IR spectroscopy of gas-phase $\text{C}_6\text{O}^+$ . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6862.	2.8	18
44	Gas-phase IR spectra of intact $\alpha$ -helical coiled coil protein complexes. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 161-168.	1.5	18
45	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.	2.8	16
46	Spectroscopically resolved competition between dissociation and detachment from nitrobenzene radical anion. <i>International Journal of Mass Spectrometry</i> , 2011, 308, 239-252.	1.5	15
47	IR Spectra of Boron-Stabilized Anions in the Gas Phase. <i>Inorganic Chemistry</i> , 2010, 49, 6781-6783.	4.0	13
48	Gas-phase infrared multiple photon dissociation spectroscopy of isolated $\text{SF}_6^+$ and $\text{SF}_5^+$ anions. <i>Journal of Chemical Physics</i> , 2008, 129, 244302.	3.0	12
49	Infrared multiphoton dissociation spectrum of isolated protonated 1-azapyrene. <i>Chemical Physics Letters</i> , 2009, 473, 43-48.	2.6	12
50	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.	1.5	11
51	Dissociation of dicarboxylate and disulfonate dianions. <i>Journal of Chemical Physics</i> , 2010, 132, 094301.	3.0	10
52	Infrared multiple photon dissociation spectroscopy of group $\text{II}$ metal complexes with salicylate. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1837-1846.	1.5	9
53	Multipodal coordination of a tetracarboxylic crown ether with $\text{NH}_4^+$ : A vibrational spectroscopy and computational study. <i>Journal of Chemical Physics</i> , 2012, 136, 114301.	3.0	8
54	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.	2.5	7

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55	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.	2.5	4
56	Infrared multiple photon dissociation spectroscopy of sodium and potassium chlorate anions. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 232-238.	1.5	3