

Terry B McMahon

List of Publications by Year in descending order

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53
papers

1,565
citations

304743

22
h-index

302126

39
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53
all docs

53
docs citations

53
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Spectrum of the Protonated Water Dimer in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9008-9010.	2.5	169
2	Infrared Multiple Photon Dissociation Spectroscopy as Structural Confirmation for GlyGlyGlyH ⁺ and AlaAlaAlaH ⁺ in the Gas Phase. Evidence for Amide Oxygen as the Protonation Site. <i>Journal of the American Chemical Society</i> , 2007, 129, 11312-11313.	13.7	94
3	Infrared Multiple Photon Dissociation Spectra of Proline and Glycine Proton-Bound Homodimers. Evidence for Zwitterionic Structure. <i>Journal of the American Chemical Society</i> , 2007, 129, 4864-4865.	13.7	87
4	Gas phase infrared multiple-photon dissociation spectra of methanol, ethanol and propanol proton-bound dimers, protonated propanol and the propanol/water proton-bound dimer. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 955.	2.8	80
5	Infrared spectra of homogeneous and heterogeneous proton-bound dimers in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2747.	2.8	77
6	An Investigation of Protonation Sites and Conformations of Protonated Amino Acids by IRMPD Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 2826-2835.	2.1	74
7	Investigation of Cation- π Interactions in Biological Systems. <i>Journal of the American Chemical Society</i> , 2008, 130, 12554-12555.	13.7	67
8	Protonation Sites and Conformations of Peptides of Glycine (Gly ₁₋₅ H ⁺) by IRMPD Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8767-8775.	2.6	64
9	Experimental and Theoretical Studies of the Benzylum ⁺ /Tropylium ⁺ Ratios after Charge Transfer to Ethylbenzene. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5600-5609.	2.5	56
10	Stabilization of Zwitterionic Structures of Amino Acids (Gly, Ala, Val, Leu, Ile, Ser and Pro) by Ammonium Ions in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2008, 130, 3065-3078.	13.7	55
11	Catalysed isomerization of simple radical cations in the gas phase. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2329.	2.0	54
12	Stabilization of the Zwitterionic Structure of Proline by an Alkylammonium Ion in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3668-3671.	13.8	45
13	Investigation of Proton Transport Tautomerism in Clusters of Protonated Nucleic Acid Bases (Cytosine, Uracil, Thymine, and Adenine) and Ammonia by High-Pressure Mass Spectrometry and Ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 569-580.	13.7	43
14	Structures, energetics, and dynamics of gas phase ions studied by FTICR and HPMS. <i>Mass Spectrometry Reviews</i> , 2009, 28, 546-585.	5.4	39
15	Direct Experimental Determination of the Energy Barriers for Methyl Cation Transfer in the Reactions of Methanol with Protonated Methanol, Protonated Acetonitrile, and Protonated Acetaldehyde: A Low Pressure FTICR Study. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3816-3824.	2.5	37
16	Experimental and Theoretical Investigation of the Proton-Bound Dimer of Lysine. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1651-9.	2.8	36
17	Globule to Helix Transition in Sodiated Polyalanines. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3320-3324.	4.6	33
18	Stepwise solvation of halides by alcohol molecules in the gas phase. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 707-725.	1.5	32

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19	Proton-Bound 3-Cyanophenylalanine Trimethylamine Clusters: Isomer-Specific Fragmentation Pathways and Evidence of Gas-Phase Zwitterions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10714-10718.	2.5	30
20	Mode-specific fragmentation of amino acid-containing clusters. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28548-28555.	2.8	23
21	An investigation of the ion-molecule interactions of protonated glycine with ammonia by high pressure mass spectrometry and ab initio calculations. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1978-1993.	1.1	22
22	Infrared vibrational spectra as a structural probe of gaseous ions formed by caffeine and theophylline. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3431.	2.8	22
23	Enthalpy Barriers for Asymmetric SN2 Alkyl Cation Transfer Reactions between Neutral and Protonated Alcohols. <i>Journal of Physical Chemistry A</i> , 2003, 107, 668-675.	2.5	21
24	IRMPD spectra of Gly-NH ⁺ and proton-bound betaine dimer: evidence for the smallest gas phase zwitterionic structures. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1641-1648.	1.6	21
25	Insight into the Gas-Phase Structure of a Copper(II)-Histidine Complex, the Agent Used To Treat Menkes Disease. <i>Inorganic Chemistry</i> , 2014, 53, 2349-2351.	4.0	21
26	The sodium cation-bound dimer of theophylline: IRMPD spectroscopy of a highly symmetric electrostatically bound species. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 76-84.	1.5	19
27	Solvation of negative ions by protic and aprotic solvents. Information from gas phase ion equilibria measurements. <i>Faraday Discussions of the Chemical Society</i> , 1977, 64, 220.	2.2	18
28	Assessing the impact of anion effects on phenylalanine ion structures using IRMPD spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24223-24234.	2.8	18
29	Persistent Intramolecular H...X (X = O or S) Hydrogen-Bonding in Benzyl Meldrum's Acid Derivatives. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3795-3803.	2.5	16
30	Complexation of halide ions to tyrosine: role of non-covalent interactions evidenced by IRMPD spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4429-4441.	2.8	16
31	Experimental infrared spectra of Cl ⁻ (ROH) (R = H, CH ₃ , CH ₃ CH ₂) complexes in the gas-phase. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2483-2490.	2.8	15
32	The Reaction of Protonated Dimethyl Ether with Dimethyl Ether: Temperature and Isotope Effects on the Methyl Cation Transfer Reaction Forming Trimethyloxonium Cation and Methanol. <i>Journal of the American Chemical Society</i> , 2001, 123, 3980-3985.	13.7	14
33	The structures of proton-bound dimers of glycine with phenylalanine and pentafluorophenylalanine. <i>Journal of Molecular Spectroscopy</i> , 2016, 330, 194-199.	1.2	14
34	Binding Energies of Proton-Bound Ether/Alcohol Mixed Dimers Determined by FTICR Radiative Association Kinetics Measurements. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1576-1583.	2.5	13
35	Infrared Multiple-Photon Dissociation Mechanisms of Peptides of Glycine. <i>Chemistry - A European Journal</i> , 2008, 14, 7765-7770.	3.3	13
36	Tridentate Ionic Hydrogen-Bonding Interactions of the 5-Fluorocytosine Cationic Dimer and Other 5-Fluorocytosine Analogues Characterized by IRMPD Spectroscopy and Electronic Structure Calculations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9837-9844.	2.5	13

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37	Experimental Determination of Activation Energies for Gas-Phase Ethyl and n-Propyl Cation Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9648-9654.	2.5	11
38	Formation of C ₆ H ₇ ⁺ ions in ion-molecule reactions in vinyl chloride. <i>Canadian Journal of Chemistry</i> , 1991, 69, 2038-2043.	1.1	10
39	A Fourier Transform Ion Cyclotron Resonance Study of the Temperature and Isotope Effects on the Kinetics of Low-Pressure Association Reactions of Protonated Dimethyl Ether with Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1011-1019.	2.5	10
40	Energetics and Structural Elucidation of Mechanisms for Gas Phase H/D Exchange of Protonated Peptides. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11953-11963.	2.5	9
41	Potential Energy Surfaces for Gas-Phase S _N 2 Reactions Involving Nitriles and Substituted Nitriles. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7519-7526.	2.5	7
42	Fourier transform ion cyclotron resonance mass spectrometry measurements of rate constants of ion/molecule reactions with continuous ejection of product ions. Reactions of CH ₃ ClH ⁺ with methyl chloride. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 113, 143-155.	1.8	6
43	Consecutive Fragmentation Mechanisms of Protonated Ferulic Acid Probed by Infrared Multiple Photon Dissociation Spectroscopy and Electronic Structure Calculations. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1697-1706.	2.8	6
44	Structure, energetics and vibrational spectra of protonated chlortetracycline in the gas phase: An experimental and computational investigation. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 117-125.	1.5	6
45	Computational analysis of substituent effects and Hammett constants for the ionization of gas phase acids. <i>Computational and Theoretical Chemistry</i> , 2013, 1008, 46-51.	2.5	6
46	Ion-Molecule reactions in methylamine and dimethylamine and trimethylamine systems. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 220-225.	2.8	4
47	Effects of Isomerization on the Measured Thermochemical Properties of Deprotonated Glycine/Solvent Clusters. <i>ChemPhysChem</i> , 2008, 9, 2816-2825.	2.1	4
48	Investigations of Strong Hydrogen Bonding in (ROH) _n (i) H ₂ O _n (i) (i) = Tj ETQq0 0 0 rgBT /Over Spectrometry and Quantum Calculations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 644-652.	2.5	4
49	Structures and Energetics of Protonated Clusters of Methylamine with Phenylalanine Analogs, Characterized by Infrared Multiple Photon Dissociation Spectroscopy and Electronic Structure Calculations. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6689-6702.	2.5	4
50	Weak Ion-Molecule Interactions in the Gas Phase: A High-Pressure Mass Spectrometry and Computational Study of Chloride-Alkane Interactions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5785-5793.	2.5	3
51	Structural Investigation of Protonated Azidothymidine and Protonated Dimer. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 176-185.	2.8	2
52	Thermochemistry and solvation of gas phase ions. <i>International Journal of Mass Spectrometry</i> , 2003, 227, vii-viii.	1.5	1
53	Gas-Phase Solvation of Protonated Amino Acids by Methanol. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11629-11640.	2.5	1