

Mark A Johnson

List of Publications by Year in descending order

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179
papers

10,423
citations

28242

55
h-index

38368

95
g-index

180
all docs

180
docs citations

180
times ranked

4792
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Characterization of the Halogen-Bonding Motif in the Isolated Cl ⁺ ⋅IOH Complex with Cryogenic Ion Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2750-2756.	2.1	9
2	Vibrational Signatures of HNO ₃ Acidity When Complexed with Microhydrated Alkali Metal Ions, M ⁺ ⋅(HNO ₃)(H ₂ O) _n (M = Li, K, Na, Rb, Cs), at 20 K. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1640-1647.	1.1	4
3	Electronic and mechanical anharmonicities in the vibrational spectra of the H-bonded, cryogenically cooled X ⁺ ⋅HOCl (X=Cl, Br, I) complexes: Characterization of the strong anionic H-bond to an acidic OH ₂ group. <i>Journal of Chemical Physics</i> , 2022, 156, 174303.		11
4	Water Network Shape-Dependence of Local Interactions with the Microhydrated ¹⁵ N ⁻ NO ₂ ⁻ and ¹³ C ⁻ CO ₂ ⁻ Anionic Head Groups by Cold Ion Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2471-2479.	1.1	2
5	Gas-Phase Reactivity of Ozone with Lanthanide Ions (Sm ⁺ , Nd ⁺) and Their Higher Oxides. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, , .	1.2	3
6	Size-Dependent Onset of Nitric Acid Dissociation in Cs ⁺ ⋅(HNO ₃)(H ₂ O) _n Clusters at 20 K. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3335-3342.	2.1	7
7	Demystifying the Diffuse Vibrational Spectrum of Aqueous Protons Through Cold Cluster Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2021, 72, 667-691.	4.8	16
8	Chemical Reduction of Nill Cyclam and Characterization of Isolated Nil Cyclam with Cryogenic Vibrational Spectroscopy and Inert-Gas-Mediated High-Resolution Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6715-6721.	1.1	0
9	On the Hydrogen Oxalate Binding Motifs onto Dinuclear Cu and Ag Metal Phosphine Complexes. <i>Chemistry - A European Journal</i> , 2021, 27, 15136-15146.	1.7	3
10	Determination of the SmO ⁺ bond energy by threshold photodissociation of the cryogenically cooled ion. <i>Journal of Chemical Physics</i> , 2021, 155, 174303.	1.2	15
11	Capturing intrinsic site-dependent spectral signatures and lifetimes of isolated OH oscillators in extended water networks. <i>Nature Chemistry</i> , 2020, 12, 159-164.	6.6	32
12	Mapping the temperature-dependent and network site-specific onset of spectral diffusion at the surface of a water cluster cage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26047-26052.	3.3	15
13	Characterization of the non-covalent docking motif in the isolated reactant complex of a double proton-coupled electron transfer reaction with cryogenic ion spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 234309.	1.2	5
14	Isolating the Contributions of Specific Network Sites to the Diffuse Vibrational Spectrum of Interfacial Water with Isotopomer-Selective Spectroscopy of Cold Clusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10393-10406.	1.1	16
15	Vibrational spectroscopy of the cryogenically cooled O- and N-protomers of 4-aminobenzoic acid: Tag effects, isotopic labels, and identification of the E,Z isomer of the O-protomer. <i>International Journal of Mass Spectrometry</i> , 2020, 457, 116427.	0.7	22
16	Ionic Liquid Clusters Generated from Electrospray Thrusters: Cold Ion Spectroscopic Signatures of Size-Dependent Acid-Base Interactions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10507-10516.	1.1	9
17	Spectroscopic Signatures of Mode-Dependent Tunnel Splitting in the Iodide-Water Binary Complex. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2991-3001.	1.1	11
18	Isomer-specific cryogenic ion vibrational spectroscopy of the D ₂ tagged Cs ⁺ (HNO ₃)(H ₂ O) _n complexes: ion-driven enhancement of the acidic H-bond to water. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4501-4507.	1.3	9

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19	Comment on δ C-D Vibration at C2 Position of Imidazolium Cation as a Probe of the Ionic Liquid Microenvironment. <i>Journal of Physical Chemistry A</i> , 2020, 124, 755-756.	1.1	2
20	Chain Length Dependence of Hydrogen Bond Linkages between Cationic Constituents in Hydroxy-Functionalized Ionic Liquids: Tracking Bulk Behavior to the Molecular Level with Cold Cluster Ion Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 683-688.	2.1	13
21	Characterization of the alkali metal oxalates (MCO_2) and their formation by CO_2 reduction via the alkali metal carbonites (MCO_2). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7460-7473.	1.3	11
22	Tribute to Charles A. Schmuttenmaer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22333-22334.	1.5	0
23	Spectroscopic Assessment of Intra- and Intermolecular Hydrogen Bonding in Ether-Functionalized Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8370-8376.	1.1	15
24	Cooperatively enhanced hydrogen bonds in ionic liquids: closing the loop with molecular mimics of hydroxy-functionalized cations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18092-18098.	1.3	29
25	Molecular-level origin of the carboxylate head group response to divalent metal ion complexation at the air-water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14874-14880.	3.3	37
26	Disentangling the Complex Vibrational Mechanics of the Protonated Water Trimer by Rational Control of Its Hydrogen Bonds. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7965-7972.	1.1	16
27	Integration of High-Resolution Mass Spectrometry with Cryogenic Ion Vibrational Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1551-1557.	1.2	28
28	Mechanisms and competition of halide substitution and hydrolysis in reactions of N_2O_5 with seawater. <i>Science Advances</i> , 2019, 5, eaav6503.	4.7	16
29	Introductory lecture: advances in ion spectroscopy: from astrophysics to biology. <i>Faraday Discussions</i> , 2019, 217, 8-33.	1.6	15
30	Deconstructing water's diffuse OH stretching vibrational spectrum with cold clusters. <i>Science</i> , 2019, 364, 275-278.	6.0	53
31	Autodetachment from Vibrationally Excited Vinylidene Anions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1058-1063.	2.1	15
32	Vibrational Characterization of Radical Ion Adducts between Imidazole and CO_2 . <i>Journal of Physical Chemistry A</i> , 2018, 122, 3805-3810.	1.1	4
33	Spektroskopischer Nachweis einer attraktiven Kation-Kation-Wechselwirkung in OH-funktionalisierten ionischen Flüssigkeiten: ein HBr-gebundenes kettenförmiges Trimer. <i>Angewandte Chemie</i> , 2018, 130, 15590-15594.	1.6	9
34	Spectroscopic Evidence for an Attractive Cation-Cation Interaction in Hydroxy-Functionalized Ionic Liquids: A Hydrogen-Bonded Chain-like Trimer. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15364-15368.	7.2	51
35	Tag-Free and Isotopomer-Selective Vibrational Spectroscopy of the Cryogenically Cooled H_9O_4^+ Cation with Two-Color, IR-IR Double-Resonance Photoexcitation: Isolating the Spectral Signature of a Single OH Group in the Hydronium Ion Core. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9275-9284.	1.1	27
36	Ground-State Structure of the Proton-Bound Formate Dimer by Cold Ion Infrared Action Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 10775-10779.	1.6	5

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37	Vibrational Predissociation Spectroscopy of Cold Protonated Tryptophan with Different Messenger Tags. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8037-8046.	1.1	17
38	Structural Motifs in Cold Ternary Ion Complexes of Hydroxyl-Functionalized Ionic Liquids: Isolating the Role of Cation-Cation Interactions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2979-2984.	2.1	47
39	Unmasking Rare, Large-Amplitude Motions in D ₂ -Tagged I ⁺ ·(H ₂ O) ₂ Isotopomers with Two-Color, Infrared Infrared Vibrational Predissociation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3744-3750.	2.1	9
40	Anharmonic Densities of States for Vibrationally Excited I ⁺ ·(H ₂ O), (H ₂ O) ₂ , and I ⁺ ·(H ₂ O) ₂ . <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3986-3997.	2.3	8
41	N ₂ O ₅ at water surfaces: binding forces, charge separation, energy accommodation and atmospheric implications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17961-17976.	1.3	18
42	Ground State Structure of the Proton-Bound Formate Dimer by Cold Ion Infrared Action Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10615-10619.	7.2	26
43	Application of gas phase cryogenic vibrational spectroscopy to characterize the CO ₂ , CO, N ₂ and N ₂ O interactions with the open coordination site on a Ni(I) macrocycle using dual cryogenic ion traps. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 117-123.	0.4	16
44	Coordination-Dependent Spectroscopic Signatures of Divalent Metal Ion Binding to Carboxylate Head Groups: H ₂ - and He-Tagged Vibrational Spectra of M ²⁺ ·RCO ₂ ⁻ (M =) Tj ETQq0 0 0 rgBT /Overlo Chemistry Letters, 2017, 8, 484-488.	2.1	25
45	Hidden role of intermolecular proton transfer in the anomalously diffuse vibrational spectrum of a trapped hydronium ion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4706-E4713.	3.3	47
46	Preparation of Labile Ni ⁺ (cyclam) Cations in the Gas Phase Using Electron-Transfer Reduction through Ion-Ion Recombination in an Ion Trap and Structural Characterization with Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5047-5052.	2.1	17
47	Isolation of site-specific anharmonicities of individual water molecules in the I ⁺ ·(H ₂ O) ₂ complex using tag-free, isotopomer selective IR-IR double resonance. <i>Chemical Physics Letters</i> , 2017, 690, 159-171.	1.2	38
48	Trapping and Structural Characterization of the XNO ₂ ·NO ₃ ⁺ (X =) Tj ETQq0 0 0 rgBT /Overlo Reactions with Cryogenic Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4710-4715.	2.1	11
49	Disentangling the Complex Vibrational Spectrum of the Protonated Water Trimer, H ⁺ ·(H ₂ O) ₃ , with Two-Color IR-IR Photodissociation of the Bare Ion and Anharmonic VSCF/VCI Theory. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3782-3789.	2.1	44
50	Identification and Partial Structural Characterization of Mass Isolated Valsartan and Its Metabolite with Messenger Tagging Vibrational Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2414-2422.	1.2	21
51	Communication: Spectroscopic characterization of a strongly interacting C(2)H group on the EMIM ⁺ cation in the (EMIM ⁺) ₂ X ⁻ (X = BF ₄ , Cl, Br, and I) ternary building blocks of ionic liquids. <i>Journal of Chemical Physics</i> , 2017, 147, 231101.	1.2	7
52	Frontispiz: Capture of CO ₂ by a Cationic Nickel(I) Complex in the Gas Phase and Characterization of the Bound, Activated CO ₂ Molecule by Cryogenic Ion Vibrational Predissociation Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	0
53	Capture of CO ₂ by a Cationic Nickel(I) Complex in the Gas Phase and Characterization of the Bound, Activated CO ₂ Molecule by Cryogenic Ion Vibrational Predissociation Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1282-1285.	7.2	68
54	Frontispiece: Capture of CO ₂ by a Cationic Nickel(I) Complex in the Gas Phase and Characterization of the Bound, Activated CO ₂ Molecule by Cryogenic Ion Vibrational Predissociation Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	7.2	0

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55	Spectroscopic snapshots of the proton-transfer mechanism in water. <i>Science</i> , 2016, 354, 1131-1135.	6.0	213
56	Isotopomer-selective spectra of a single intact H ₂ O molecule in the Cs+(D ₂ O) ₅ H ₂ O isotopologue: Going beyond pattern recognition to harvest the structural information encoded in vibrational spectra. <i>Journal of Chemical Physics</i> , 2016, 144, 074305.	1.2	23
57	Characterization of the primary hydration shell of the hydroxide ion with H ₂ tagging vibrational spectroscopy of the OH ⁻ ... (H ₂ O) _n =2,3 and OD ⁻ ... (D ₂ O) _n =2,3 clusters. <i>Journal of Chemical Physics</i> , 2016, 145, 134304.	1.2	26
58	Gas phase vibrational spectroscopy of the protonated water pentamer: the role of isomers and nuclear quantum effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26743-26754.	1.3	53
59	Alkali-Controlled C-H Cleavage or N-C Bond Formation by N ₂ -Derived Iron Nitrides and Imides. <i>Journal of the American Chemical Society</i> , 2016, 138, 11185-11191.	6.6	42
60	Capture of CO ₂ by a Cationic Nickel(I) Complex in the Gas Phase and Characterization of the Bound, Activated CO ₂ Molecule by Cryogenic Ion Vibrational Predissociation Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, 1304-1307.	1.6	17
61	Water network-mediated, electron-induced proton transfer in [C ₅ H ₅ N... (H ₂ O) _n] ⁺ clusters. <i>Journal of Chemical Physics</i> , 2015, 143, 144305.	1.2	8
62	Diffuse Vibrational Signature of a Single Proton Embedded in the Oxalate Scaffold, HO ₂ CCO ₂ ⁻ . <i>Journal of Physical Chemistry A</i> , 2015, 119, 13018-13024.	1.1	29
63	Thermodynamics of Water Dimer Dissociation in the Primary Hydration Shell of the Iodide Ion with Temperature-Dependent Vibrational Predissociation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1859-1866.	1.1	37
64	Persistence of Dual Free Internal Rotation in NH ₄ ⁺ (H ₂ O) _n =0-3 Ion-Molecule Complexes: Expanding the Case for Quantum Delocalization in He Tagging. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4170-4176.	1.1	38
65	Snapshots of Proton Accommodation at a Microscopic Water Surface: Understanding the Vibrational Spectral Signatures of the Charge Defect in Cryogenically Cooled H ₂ O _n =2-28 Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9425-9440.	1.1	111
66	Understanding the ionic liquid [NC ₄ 111][NTf ₂] from individual building blocks: an IR-spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8518-8529.	1.3	48
67	Vibrational Signatures of Solvent-Mediated Deformation of the Ternary Core Ion in Size-Selected [MgSO ₄ Mg(H ₂ O) _n =4-11] ²⁺ Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8294-8302.	1.1	20
68	Comparison of the local binding motifs in the imidazolium-based ionic liquids [EMIM][BF ₄] and [EMMIM][BF ₄] through cryogenic ion vibrational predissociation spectroscopy: Unraveling the roles of anharmonicity and intermolecular interactions. <i>Journal of Chemical Physics</i> , 2015, 142, 064306.	1.2	35
69	Synthesis, Characterization, and Nitrogenase-Relevant Reactions of an Iron Sulfide Complex with a Bridging Hydride. <i>Journal of the American Chemical Society</i> , 2015, 137, 13220-13223.	6.6	25
70	Communication: He-tagged vibrational spectra of the SarGlyH ⁺ and H+(H ₂ O) _{2,3} ions: Quantifying tag effects in cryogenic ion vibrational predissociation (CIVP) spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 221101.	1.2	67
71	Site-specific vibrational spectral signatures of water molecules in the magic H ₃ O ⁺ (H ₂ O) ₂₀ and Cs ⁺ (H ₂ O) ₂₀ clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2014, 111, 18132-18137.	3.3	59
72	Vibrational spectral signature of the proton defect in the three-dimensional H ₃ O ⁺ (H ₂ O) _n clusters. <i>Journal of Chemical Physics</i> , 2014, 140, 221101.	6.0	111

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73	Microhydration of Contact Ion Pairs in $M^{2+}OH^{\ominus}(H_2O)_n=1^{\ominus5}$ (M = Mg, Ca) Clusters: Spectral Manifestations of a Mobile Proton Defect in the First Hydration Shell. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7590-7597.	1.1	52
74	Cryogenic Ion Chemistry and Spectroscopy. <i>Accounts of Chemical Research</i> , 2014, 47, 202-210.	7.6	256
75	Modes of Activation of Organometallic Iridium Complexes for Catalytic Water and C-H Oxidation. <i>Inorganic Chemistry</i> , 2014, 53, 423-433.	1.9	57
76	Isolation and characterization of a peroxo manganese (III) dioxygen reaction intermediate using cryogenic ion vibrational predissociation spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 33-38.	0.7	15
77	Hiding in Plain Sight: Unmasking the Diffuse Spectral Signatures of the Protonated N-Terminus in Isolated Dipeptides Cooled in a Cryogenic Ion Trap. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3450-3457.	2.1	43
78	Ionic liquids from the bottom up: Local assembly motifs in [EMIM][BF ₄] through cryogenic ion spectroscopy. <i>Journal of Chemical Physics</i> , 2013, 139, 224305.	1.2	39
79	Vibrational predissociation spectroscopy of Ar-tagged, trisubstituted silyl cations. <i>Chemical Physics Letters</i> , 2013, 568-569, 9-13.	1.2	5
80	Vibrational Spectra and Fragmentation Pathways of Size-Selected, D ₂ -Tagged Ammonium/Methylammonium Bisulfate Clusters. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13265-13274.	1.1	30
81	Origin of the diffuse vibrational signature of a cyclic intramolecular proton bond: Anharmonic analysis of protonated 1,8-disubstituted naphthalene ions. <i>Journal of Chemical Physics</i> , 2013, 139, 024301.	1.2	27
82	Characterization of an activated iridium water splitting catalyst using infrared photodissociation of H ₂ tagged ions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10109.	1.3	21
83	Determination of Noncovalent Docking by Infrared Spectroscopy of Cold Gas-Phase Complexes. <i>Science</i> , 2012, 335, 694-698.	6.0	127
84	Bottom-Up View of Water Network-Mediated CO ₂ Reduction Using Cryogenic Cluster Ion Spectroscopy and Direct Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 903-912.	1.1	19
85	Isomer-Specific IR-IR Double Resonance Spectroscopy of D ₂ -Tagged Protonated Dipeptides Prepared in a Cryogenic Ion Trap. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1099-1105.	2.1	88
86	Characterization of Highly Unusual NH ⁺ O Hydrogen Bonding to Ester Ether Oxygen Atoms through Spectroscopic and Computational Studies. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3556-3560.	1.1	26
87	Vibrational manifestations of strong non-Condon effects in the H ₃ O ⁺ ·X ₃ (X = Ar, N ₂ , CH ₄ , H ₂ O) complexes: A possible explanation for the intensity in the association band in the vibrational spectrum of water. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7205.	1.3	82
88	Vibrational Characterization of Simple Peptides Using Cryogenic Infrared Photodissociation of H ₂ -Tagged, Mass-Selected Ions. <i>Journal of the American Chemical Society</i> , 2011, 133, 6440-6448.	6.6	139
89	NH-F Hydrogen Bonding in a Fluorinated Proton Sponge-Derivative: Integration of Solution, Solid-State, Gas-Phase, and Computational Studies. <i>Journal of Organic Chemistry</i> , 2011, 76, 7975-7984.	1.7	31
90	Unraveling the Anomalous Solvatochromic Response of the Formate Ion Vibrational Spectrum: An Infrared, Ar-Tagging Study of the HCO ₂ ⁻ , DCO ₂ ⁻ , and HCO ₂ ⁻ ·H ₂ O Ions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2437-2441.	2.1	49

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91	Unraveling Anharmonic Effects in the Vibrational Predissociation Spectra of H_5O_2^+ and Its Deuterated Analogues. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5847-5858.	1.1	75
92	Characterizing the Intramolecular H-bond and Secondary Structure in Methylated Glycylglycine with H_2 Predissociation Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1941-52.	1.2	37
93	Vibrational predissociation spectroscopy and theory of Ar-tagged, protonated Imidazole (Im) $\text{Im}^+\text{H}^+\text{Ar}$ clusters. <i>Chemical Physics Letters</i> , 2011, 501, 172-178.	1.2	18
94	Vibrational predissociation spectroscopy of the H_2 -tagged mono- and dicarboxylate anions of dodecanedioic acid. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 91-98.	0.7	136
95	Anharmonicity and Isotopic Effects in the Vibrational Spectra of $\text{X}^+\text{H}_2\text{O}$, HDO , and D_2O [X = Cl, Br, and I] Binary Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1556-1568.	1.1	61
96	How the Shape of an H-Bonded Network Controls Proton-Coupled Water Activation in HONO Formation. <i>Science</i> , 2010, 327, 308-312.	6.0	99
97	Survey of Ar-Tagged Predissociation and Vibrationally Mediated Photodetachment Spectroscopies of the Vinylidene Anion, C_2H_2^+ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 1592-1601.	1.1	22
98	Vibrational Predissociation Spectrum of the Carbamate Radical Anion, $\text{C}_5\text{H}_5\text{N}-\text{CO}_2^-$, Generated by Reaction of Pyridine with $(\text{CO}_2)^-$. <i>Journal of the American Chemical Society</i> , 2010, 132, 15508-15511.	6.6	62
99	Isolating the Spectral Signatures of Individual Sites in Water Networks Using Vibrational Double-Resonance Spectroscopy of Cluster Isotopomers. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2396-2401.	2.1	31
100	Vibrational predissociation spectra of the Ar-tagged $[\text{CH}_4\text{H}_3\text{O}^+]$ binary complex: spectroscopic signature of hydrogen bonding to an alkane. <i>Molecular Physics</i> , 2010, 108, 1191-1197.	0.8	15
101	Experiment and theory in harmony. <i>Nature Chemistry</i> , 2009, 1, 8-9.	6.6	8
102	Vibrationally Induced Interconversion of H-Bonded $\text{NO}_2^+\text{H}_2\text{O}$ Isomers within $\text{NO}_2^+\text{H}_2\text{O}\text{Ar}$ Clusters Using IR Pump-Probe through the OH and NO Stretching Vibrations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 975-981.	1.1	15
103	Structural Evolution of the $[(\text{CO}_2)_n(\text{H}_2\text{O})]^+$ Cluster Anions: Quantifying the Effect of Hydration on the Excess Charge Accommodation Motif. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8942-8948.	1.1	19
104	Generating Spectra from Ground-State Wave Functions: Unraveling Anharmonic Effects in the $\text{OH}^+\text{H}_2\text{O}$ Vibrational Predissociation Spectrum. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7346-7352.	1.1	39
105	Spectroscopic Study of the Ion-Radical H-Bond in H_4O_2^+ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 4772-4779.	1.1	91
106	Photoelectron imaging study of vibrationally mediated electron autodetachment in the type I isomer of the water hexamer anion. <i>Chemical Physics Letters</i> , 2008, 467, 32-36.	1.2	21
107	Vibrationally Induced Proton Transfer in $\text{F}^+(\text{H}_2\text{O})$ and $\text{F}^+(\text{D}_2\text{O})$. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12337-12344.	1.1	42
108	An H/D Isotopic Substitution Study of the $\text{H}_5\text{O}_2^+\text{Ar}$ Vibrational Predissociation Spectra: Exploring the Putative Role of Fermi Resonances in the Bridging Proton Fundamentals. <i>Journal of Physical Chemistry B</i> , 2008, 112, 321-327.	1.2	92

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109	Argon cluster-mediated isolation and vibrational spectra of peroxy and nominally D _{3h} isomers of CO ₃ ⁻ and NO ₃ ⁻ . Journal of Chemical Physics, 2008, 129, 064305.	1.2	23
110	Site-specific addition of D ₂ O to the (H ₂ O) ₆ ⁻ hydrated electron cluster: isomer interconversion and substitution at the double H-bond acceptor (AA) electron-binding site. Physical Chemistry Chemical Physics, 2008, 10, 3118.	1.3	11
111	Why Does Argon Bind to Deuterium? Isotope Effects and Structures of ArH ₂ ⁺ Complexes. Journal of Physical Chemistry A, 2008, 112, 6074-6078.	1.1	33
112	Isolating the spectra of cluster ion isomers using Ar-mediated IR-IR double resonance within the vibrational manifolds: Application to NO ₂ ⁻ ...H ₂ O. Journal of Chemical Physics, 2008, 129, 094303.	1.2	65
113	Electron Transfer and Charge Separation in Clusters. Advances in Chemical Physics, 2007, , 265-302.	0.3	9
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115	Prying Apart a Water Molecule with Anionic H-Bonding: A Comparative Spectroscopic Study of the X-H ₂ O (X = OH, O, F, Cl, and Br) Binary Complexes in the 600-3800 cm ⁻¹ Region. Journal of Physical Chemistry A, 2006, 110, 4943-4952.	1.1	157
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