

Richard James Saykally

List of Publications by Year in descending order

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274
papers

27,279
citations

10956

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277
docs citations

277
times ranked

22213
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanowire dye-sensitized solar cells. <i>Nature Materials</i> , 2005, 4, 455-459.	13.3	5,232
2	Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3031-3034.	7.2	1,562
3	Single gallium nitride nanowire lasers. <i>Nature Materials</i> , 2002, 1, 106-110.	13.3	1,144
4	Nanoribbon Waveguides for Subwavelength Photonics Integration. <i>Science</i> , 2004, 305, 1269-1273.	6.0	879
5	Optical Cavity Effects in ZnO Nanowire Lasers and Waveguides. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8816-8828.	1.2	602
6	Dendritic Nanowire Ultraviolet Laser Array. <i>Journal of the American Chemical Society</i> , 2003, 125, 4728-4729.	6.6	577
7	Small Carbon Clusters: Spectroscopy, Structure, and Energetics. <i>Chemical Reviews</i> , 1998, 98, 2313-2358.	23.0	567
8	Tunable nanowire nonlinear optical probe. <i>Nature</i> , 2007, 447, 1098-1101.	13.7	544
9	Energetics of Hydrogen Bond Network Rearrangements in Liquid Water. <i>Science</i> , 2004, 306, 851-853.	6.0	476
10	Single Nanowire Lasers. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11387-11390.	1.2	425
11	ON THE NATURE OF IONS AT THE LIQUID WATER SURFACE. <i>Annual Review of Physical Chemistry</i> , 2006, 57, 333-364.	4.8	416
12	The Effects of Dissolved Halide Anions on Hydrogen Bonding in Liquid Water. <i>Journal of the American Chemical Society</i> , 2007, 129, 13847-13856.	6.6	416
13	Unified description of temperature-dependent hydrogen-bond rearrangements in liquid water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14171-14174.	3.3	369
14	Many-Body Effects in Intermolecular Forces. <i>Chemical Reviews</i> , 1994, 94, 1975-1997.	23.0	334
15	The Water Trimer. <i>Chemical Reviews</i> , 2003, 103, 2533-2578.	23.0	325
16	Ultrafast Carrier Dynamics in Single ZnO Nanowire and Nanoribbon Lasers. <i>Nano Letters</i> , 2004, 4, 197-204.	4.5	319
17	Velocity-Modulated Infrared Laser Spectroscopy of Molecular Ions: The ν_2 Band of HCO^+ . <i>Physical Review Letters</i> , 1983, 50, 727-731.	2.9	312
18	Near-Field Imaging of Nonlinear Optical Mixing in Single Zinc Oxide Nanowires. <i>Nano Letters</i> , 2002, 2, 279-283.	4.5	305

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19	Self-Organized GaN Quantum Wire UV Lasers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8721-8725.	1.2	281
20	Far infrared laser magnetic resonance of singlet methylene: Singlet-triplet perturbations, 5251-5264.	1.2	280
21	Laboratory Microwave Spectrum of HCO ⁺ . <i>Physical Review Letters</i> , 1975, 35, 1269-1272.	2.9	228
22	Evidence for an Enhanced Hydronium Concentration at the Liquid Water Surface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7976-7980.	1.2	226
23	Optical routing and sensing with nanowire assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7800-7805.	3.3	224
24	The structure of ambient water. <i>Molecular Physics</i> , 2010, 108, 1415-1433.	0.8	209
25	Elucidating the mechanism of selective ion adsorption to the liquid water surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 701-705.	3.3	202
26	Is the liquid water surface basic or acidic? Macroscopic vs. molecular-scale investigations. <i>Chemical Physics Letters</i> , 2008, 458, 255-261.	1.2	192
27	Infrared Spectroscopy of Cationized Arginine in the Gas Phase: Direct Evidence for the Transition from Nonzwitterionic to Zwitterionic Structure. <i>Journal of the American Chemical Society</i> , 2007, 129, 1612-1622.	6.6	189
28	Organic chemistry of C ₆₀ (buckminsterfullerene): chromatography and osmylation. <i>Journal of Organic Chemistry</i> , 1990, 55, 6250-6252.	1.7	183
29	Confirmation of enhanced anion concentration at the liquid water surface. <i>Chemical Physics Letters</i> , 2004, 397, 51-55.	1.2	178
30	Enhanced Concentration of Polarizable Anions at the Liquid Water Surface: SHG Spectroscopy and MD Simulations of Sodium Thiocyanide. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10915-10921.	1.2	175
31	Direct experimental validation of the Jones-Ray effect. <i>Chemical Physics Letters</i> , 2004, 397, 46-50.	1.2	168
32	Effects of Alkaline Earth Metal Ion Complexation on Amino Acid Zwitterion Stability: Results from Infrared Action Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6463-6471.	6.6	166
33	Fully coupled six-dimensional calculations of the water dimer vibration-rotation-tunneling states with a split Wigner pseudo spectral approach. <i>Journal of Chemical Physics</i> , 1997, 106, 8527-8544.	1.2	161
34	Effects of Alkali Metal Halide Salts on the Hydrogen Bond Network of Liquid Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7046-7052.	1.2	159
35	Raman Thermometry Measurements of Free Evaporation from Liquid Water Droplets. <i>Journal of the American Chemical Society</i> , 2006, 128, 12892-12898.	6.6	150
36	Femtosecond Spectroscopy of Carrier Relaxation Dynamics in Type II CdSe/CdTe Tetrapod Heteronanostructures. <i>Nano Letters</i> , 2005, 5, 1809-1813.	4.5	148

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37	Velocity modulation laser spectroscopy of negative ions: The infrared spectrum of hydroxide (OH ⁻). Journal of Chemical Physics, 1986, 84, 5308-5313.	1.2	141
38	Cavity ring down dye laser spectroscopy of jet-cooled metal clusters: Cu ₂ and Cu ₃ . Chemical Physics Letters, 1990, 172, 214-218.	1.2	137
39	Probing the Interfacial Structure of Aqueous Electrolytes with Femtosecond Second Harmonic Generation Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 14060-14073.	1.2	137
40	The vibration-rotation spectrum of the hydroxide anion (OH ⁻). Journal of Chemical Physics, 1985, 83, 5338-5339.	1.2	136
41	Determination of a flexible (12D) water dimer potential via direct inversion of spectroscopic data. Journal of Chemical Physics, 2002, 117, 8710-8722.	1.2	129
42	Adsorption of Ions to the Surface of Dilute Electrolyte Solutions: The Jones-Ray Effect Revisited. Journal of the American Chemical Society, 2005, 127, 15446-15452.	6.6	125
43	The water dimer I: Experimental characterization. Chemical Physics Letters, 2015, 633, 13-26.	1.2	124
44	Characterization of selective binding of alkali cations with carboxylate by x-ray absorption spectroscopy of liquid microjets. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6809-6812.	3.3	121
45	Effects of Cations on the Hydrogen Bond Network of Liquid Water: New Results from X-ray Absorption Spectroscopy of Liquid Microjets. Journal of Physical Chemistry B, 2006, 110, 5301-5309.	1.2	119
46	On the hydration and hydrolysis of carbon dioxide. Chemical Physics Letters, 2011, 514, 187-195.	1.2	119
47	Terahertz Laser Vibration-rotation Tunneling Spectroscopy of the Water Tetramer. Journal of Physical Chemistry A, 1997, 101, 9022-9031.	1.1	110
48	One Water Molecule Stabilizes the Cationized Arginine Zwitterion. Journal of the American Chemical Society, 2007, 129, 13544-13553.	6.6	109
49	Infrared Spectroscopy of Cationized Lysine and μ -methyllysine in the Gas Phase: Effects of Alkali-Metal Ion Size and Proton Affinity on Zwitterion Stability. Journal of Physical Chemistry A, 2007, 111, 7753-7760.	1.1	108
50	Infrared cavity ringdown laser absorption spectroscopy (IR-CRLAS). Chemical Physics Letters, 1995, 245, 273-280.	1.2	106
51	Hydrogen Bonding in Alcohol Clusters: A Comparative Study by Infrared Cavity Ringdown Laser Absorption Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 1423-1429.	1.1	105
52	Soft X-ray Absorption Spectroscopy of Liquids and Solutions. Chemical Reviews, 2017, 117, 13909-13934.	23.0	103
53	Pseudorotation in Water Trimer Isotopomers Using Terahertz Laser Spectroscopy. Journal of Physical Chemistry A, 1997, 101, 9032-9041.	1.1	100
54	High spectral resolution multiplex CARS spectroscopy using chirped pulses. Chemical Physics Letters, 2004, 387, 436-441.	1.2	96

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55	Probing the Local Structure of Liquid Water by X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 20038-20045.	1.2	91
56	Laboratory Microwave Spectrum and Rest Frequencies of the N ₂ H(+) Ion. Astrophysical Journal, 1976, 205, L101.	1.6	91
57	Evidence for Water Rings in the Hexahydrated Sulfate Dianion from IR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 2220-2221.	6.6	89
58	Vibrational spectroscopy of van der Waals bonds: Measurement of the perpendicular bend of ArHCl by intracavity far infrared laser spectroscopy of a supersonic jet. Journal of Chemical Physics, 1986, 84, 1171-1180.	1.2	87
59	A study of the structure and dynamics of the hydronium ion by high-resolution infrared laser spectroscopy. I. The ν_3 band of H ₃ 16O ⁺ . Journal of Chemical Physics, 1985, 82, 3570-3579.	1.2	86
60	Water Dimers in the Atmosphere: Equilibrium Constant for Water Dimerization from the VRT(ASP-W) Potential Surface. Journal of Physical Chemistry A, 2001, 105, 515-519.	1.1	85
61	Hydration of the Calcium Dication: Direct Evidence for Second Shell Formation from Infrared Spectroscopy. ChemPhysChem, 2007, 8, 2245-2253.	1.0	85
62	Velocity-modulated infrared laser spectroscopy of molecular ions: The ν_1 band of HNN ⁺ . Journal of Chemical Physics, 1983, 78, 5837-5838.	1.2	84
63	Mechanism of ion adsorption to aqueous interfaces: Graphene/water vs. air/water. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13369-13373.	3.3	84
64	A long path length pulsed slit valve appropriate for high temperature operation: Infrared spectroscopy of jet-cooled large water clusters and nucleotide bases. Review of Scientific Instruments, 1996, 67, 410-416.	0.6	83
65	Near-Field Scanning Optical Microscopy (NSOM) Studies of the Relationship between Interchain Interactions, Morphology, Photodamage, and Energy Transport in Conjugated Polymer Films. Journal of Physical Chemistry B, 2001, 105, 5153-5160.	1.2	82
66	Structure and torsional dynamics of the water octamer from THz laser spectroscopy near 215 μ m. Science, 2016, 352, 1194-1197.	6.0	82
67	The water dimer II: Theoretical investigations. Chemical Physics Letters, 2018, 700, 163-175.	1.2	82
68	Infrared Action Spectra of Ca ²⁺ (H ₂ O) ₁₁ Exhibit Spectral Signatures for Condensed-Phase Structures with Increasing Cluster Size. Journal of the American Chemical Society, 2008, 130, 15482-15489.	6.6	79
69	Nonlinear Chemical Imaging Nanomicroscopy: From Second and Third Harmonic Generation to Multiplex (Broad-Bandwidth) Sum Frequency Generation Near-Field Scanning Optical Microscopy. Journal of Physical Chemistry B, 2002, 106, 5143-5154.	1.2	78
70	Water dimer hydrogen bond stretch, donor torsion overtone, and in-plane bend vibrations. Journal of Chemical Physics, 2003, 119, 8927-8937.	1.2	76
71	Two sides of the acid-base story. Nature Chemistry, 2013, 5, 82-84.	6.6	74
72	Velocity modulation laser spectroscopy of negative ions. The ν_3 band of azide anion. Journal of the American Chemical Society, 1987, 109, 2884-2887.	6.6	73

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73	Hydration of Alkaline Earth Metal Dications: Effects of Metal Ion Size Determined Using Infrared Action Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 13270-13277.	6.6	72
74	An extended study of the lowest $\hat{\nu}$ bending vibration $\hat{\nu}$ rotation spectrum of Ar^+HCl by intracavity far infrared laser/microwave double resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1987, 87, 5149-5155.	1.2	66
75	Nature of the Aqueous Hydroxide Ion Probed by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4776-4785.	1.1	63
76	Pinning Down the Water Hexamer. <i>Science</i> , 2012, 336, 814-815.	6.0	63
77	Cation-cation contact pairing in water: Guanidinium. <i>Journal of Chemical Physics</i> , 2013, 139, 035104.	1.2	62
78	Communication: Hydrogen bonding interactions in water-alcohol mixtures from X-ray absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 144, 191103.	1.2	62
79	The high-resolution far infrared spectrum of a van der Waals stretching vibration: The $\hat{\nu}_{2/3}$ band of Ar^+HCl . <i>Journal of Chemical Physics</i> , 1987, 87, 5156-5160.	1.2	61
80	Reactivity and Infrared Spectroscopy of Gaseous Hydrated Trivalent Metal Ions. <i>Journal of the American Chemical Society</i> , 2008, 130, 9122-9128.	6.6	61
81	Adsorption of thiocyanate ions to the dodecanol/water interface characterized by UV second harmonic generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15176-15180.	3.3	61
82	Infrared laser spectroscopy of jet-cooled carbon clusters. <i>Molecular Physics</i> , 1993, 79, 769-776.	0.8	60
83	Alkali Metal Ion Binding to Glutamine and Glutamine Derivatives Investigated by Infrared Action Spectroscopy and Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8578-8584.	1.1	60
84	A study of the structure and dynamics of the hydronium ion by high resolution infrared laser spectroscopy. II. The $\hat{\nu}_{2/4}$ perpendicular bending mode of H_3^+O . <i>Journal of Chemical Physics</i> , 1987, 87, 3347-3351.	1.2	59
85	Complete characterization of the water dimer vibrational ground state and testing the VRT(ASP-W)III, SAPT-5st, and VRT(MCY-5f) surfaces. <i>Molecular Physics</i> , 2003, 101, 3477-3492.	0.8	59
86	The molecular structure of HCO^+ by the microwave substitution method. <i>Journal of Chemical Physics</i> , 1981, 75, 4256-4260.	1.2	58
87	Observation of nitrate ions at the air/water interface by UV-second harmonic generation. <i>Chemical Physics Letters</i> , 2007, 449, 261-265.	1.2	58
88	Electrokinetic Power Generation from Liquid Water Microjets. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17018-17022.	1.5	58
89	The Nature of Interchain Excitations in Conjugated Polymers: $\hat{\nu}$ Spatially-Varying Interfacial Solvatochromism of Annealed MEH-PPV Films Studied by Near-Field Scanning Optical Microscopy (NSOM). <i>Journal of Physical Chemistry B</i> , 2002, 106, 9496-9506.	1.2	57
90	Infrared cavity ringdown spectroscopy of acid $\hat{\nu}$ water clusters: $\text{HCl}^+\text{H}_2\text{O}$, $\text{DCl}^+\text{D}_2\text{O}$, and $\text{DCl}^+(\text{D}_2\text{O})_2$. <i>Journal of Chemical Physics</i> , 2003, 118, 1221-1229.	1.2	57

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91	The $\hat{1}/23$ vibrational spectrum of the free ammonium ion (NH ₄ ⁺). Journal of Chemical Physics, 1983, 79, 3159-3160.	1.2	56
92	Formation of hydrated triply charged metal ions from aqueous solutions using nanodrop mass spectrometry. International Journal of Mass Spectrometry, 2006, 253, 256-262.	0.7	55
93	Laser magnetic resonance rotational spectroscopy of $2\hat{1}\hat{x}$ radicals: Ethynyl (CCH). Journal of Chemical Physics, 1984, 80, 2247-2255.	1.2	54
94	Quantitative characterization of the (D ₂ O) ₃ torsional manifold by terahertz laser spectroscopy and theoretical analysis. Journal of Chemical Physics, 1999, 110, 4369-4381.	1.2	53
95	Velocity Modulation Spectroscopy of Ions. Chemical Reviews, 2005, 105, 3220-3234.	23.0	53
96	Investigation of Terahertz Vibration-Rotation Tunneling Spectra for the Water Octamer. Journal of Physical Chemistry A, 2013, 117, 6960-6966.	1.1	52
97	Far-infrared laser spectroscopy of van der Waals bonds: a powerful new probe of intermolecular forces. Accounts of Chemical Research, 1989, 22, 295-300.	7.6	51
98	Chemically Selective Imaging of Subcellular Structure in Human Hepatocytes with Coherent Anti-Stokes Raman Scattering (CARS) Near-Field Scanning Optical Microscopy (NSOM). Journal of Physical Chemistry B, 2002, 106, 8489-8492.	1.2	51
99	Observation of Pure Rotational Transitions in the HBr ⁺ Molecular Ion by Laser Magnetic Resonance. Physical Review Letters, 1979, 43, 515-518.	2.9	50
100	Exciton Dynamics in Cd ²⁺ Ag ₂ S Nanorods with Tunable Composition Probed by Ultrafast Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 5879-5885.	1.5	50
101	Infrared laser spectroscopy of uracil in a pulsed slit jet. Journal of Chemical Physics, 1995, 103, 9502-9505.	1.2	49
102	Quantitative characterization of the water trimer torsional manifold by terahertz laser spectroscopy and theoretical analysis. II. (H ₂ O) ₃ . Journal of Chemical Physics, 1999, 111, 7789-7800.	1.2	49
103	Isotope Fractionation of Water during Evaporation without Condensation. Journal of Physical Chemistry B, 2005, 109, 24391-24400.	1.2	49
104	Effects of vibrational motion on core-level spectra of prototype organic molecules. Chemical Physics Letters, 2008, 467, 195-199.	1.2	49
105	A study of the $\hat{1}/21$ fundamental and bend-excited hot band of DNN ⁺ by velocity modulation absorption spectroscopy with an infrared difference frequency laser. Journal of Chemical Physics, 1984, 81, 5281-5287.	1.2	47
106	Evidence for a secondary minimum in the ArHCl potential surface from far infrared laser spectroscopy of the lowest $\hat{1}\hat{x}$ bending vibration. Journal of Chemical Physics, 1987, 86, 5211-5212.	1.2	47
107	Single-Photon Infrared Emission Spectroscopy of Gaseous Polycyclic Aromatic Hydrocarbon Cations: A Direct Test for Proposed Carriers of the Unidentified Infrared Emission Bands. Astrophysical Journal, Supplement Series, 2002, 143, 455-467.	3.0	47
108	Chirped Coherent Anti-Stokes Raman Scattering for High Spectral Resolution Spectroscopy and Chemically Selective Imaging. Journal of Physical Chemistry B, 2006, 110, 5854-5864.	1.2	47

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109	The high resolution infrared spectrum and molecular structure of the superacid H ₂ F ⁺ by velocity modulation laser absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1984, 81, 4189-4199.	1.2	46
110	Velocity modulation laser spectroscopy of vibrationally excited CF ⁺ determination of the molecular potential function. <i>Chemical Physics Letters</i> , 1986, 125, 165-169.	1.2	46
111	X-Ray absorption spectroscopy of LiBF ₄ in propylene carbonate: a model lithium ion battery electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23568-23575.	1.3	46
112	Determination of the Born-Oppenheimer potential function of CCl ⁺ by velocity modulation diode laser spectroscopy. <i>Journal of Chemical Physics</i> , 1986, 85, 6276-6281.	1.2	45
113	A high resolution study of the $\hat{1}/23$ band of the ammonium ion (NH ₄ ⁺) by velocity modulation laser absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1984, 80, 3969-3977.	1.2	44
114	Velocity modulation infrared laser spectroscopy of negative ions: The $\hat{1}/23$, $\hat{1}/23+\hat{1}/21\hat{a}\sim\hat{1}/21$, $\hat{1}/23+\hat{1}/22\hat{a}\sim\hat{1}/22$, and $\hat{1}/23+2\hat{1}/22\hat{a}\sim2\hat{1}/22$ bands of cyanate (NCO ⁻). <i>Journal of Chemical Physics</i> , 1987, 86, 6631-6636.	1.2	44
115	Tunable far-infrared laser spectroscopy in a planar supersonic jet: The $\hat{1}\hat{x}$ bending vibration of Ar-H ₃₅ Cl. <i>Chemical Physics Letters</i> , 1987, 141, 289-291.	1.2	44
116	Non-additive intermolecular forces from the spectroscopy of van der Waals trimers: far-infrared spectra and calculations on Ar ₂ -DCl. <i>Molecular Physics</i> , 1994, 81, 579-598.	0.8	44
117	CHEMISTRY: Building Solutions—One Molecule at a Time. <i>Science</i> , 2003, 299, 1329-1330.	6.0	44
118	Infrared Cavity Ringdown Spectroscopy of Jet-Cooled Nucleotide Base Clusters and Water Complexes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10989-10996.	1.1	44
119	The Electronic Structure of the Hydrated Proton: A Comparative X-ray Absorption Study of Aqueous HCl and NaCl Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1166-1171.	1.2	44
120	Nanoscale interchain aggregate domain formation in conjugated polymer films studied by third harmonic generation near-field scanning optical microscopy. <i>Journal of Chemical Physics</i> , 2002, 117, 6688-6698.	1.2	43
121	FAR INFRARED LASER MAGNETIC RESONANCE. , 1980, , 95-138.		43
122	Hydrogen Bond Breaking Dynamics of the Water Trimer in the Translational and Librational Band Region of Liquid Water. <i>Journal of the American Chemical Society</i> , 2001, 123, 5938-5941.	6.6	42
123	Electrokinetic Hydrogen Generation from Liquid Water Microjets. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12031-12037.	1.5	42
124	Electronic absorption spectroscopy of molecular ions in plasmas by dye laser velocity modulation: The A $\hat{1}\hat{x}$ system of N ₂ ⁺ . <i>Journal of Chemical Physics</i> , 1987, 87, 898-901.	1.2	41
125	Terahertz vibration-rotation-tunneling spectroscopy of water clusters in the translational band region of liquid water. <i>Journal of Chemical Physics</i> , 2001, 114, 3994-4004.	1.2	40
126	Laser magnetic resonance measurement of the 2 $\hat{a}\sim 3P2\hat{a}\sim 2\hat{a}\sim 3P1$ splitting in atomic oxygen. <i>Journal of Chemical Physics</i> , 1979, 71, 1564-1566.	1.2	39

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127	On the importance of nuclear quantum motions in near edge x-ray absorption fine structure spectroscopy of molecules. <i>Journal of Chemical Physics</i> , 2009, 130, 184109.	1.2	39
128	pH-dependent x-ray absorption spectra of aqueous boron oxides. <i>Journal of Chemical Physics</i> , 2011, 134, 154503.	1.2	39
129	Experimental potential functions for open and closed shell molecular ions: Adiabatic and nonadiabatic corrections in X_3^{1+} OH ⁺ and X_1^{1+} ArH ⁺ . <i>Journal of Molecular Spectroscopy</i> , 1988, 131, 343-366.	0.4	38
130	Nonlinear Chemical Imaging Microscopy: A Near-Field Third Harmonic Generation Imaging of Human Red Blood Cells. <i>Analytical Chemistry</i> , 2000, 72, 5361-5364.	3.2	38
131	An investigation of the laser optogalvanic effect for atoms and molecules in recombination-limited plasmas. <i>Molecular Physics</i> , 1984, 52, 541-566.	0.8	37
132	Velocity modulation infrared laser spectroscopy of negative ions: Measurement of the $\hat{1}/2_1$ vibration of amide (NH ⁻ ₂). <i>Journal of Chemical Physics</i> , 1986, 84, 7056-7057.	1.2	37
133	The $\hat{1}/2_5$ band of C ₇ . <i>Chemical Physics Letters</i> , 1991, 182, 17-20.	1.2	37
134	Water Pentamer: A Characterization of the Torsional-Puckering Manifold by Terahertz VRT Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6483-6497.	1.1	37
135	Measurement of Bromide Ion Affinities for the Air/Water and Dodecanol/Water Interfaces at Molar Concentrations by UV Second Harmonic Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13746-13751.	1.5	37
136	Radiative lifetimes of trapped molecular ions: HCl ⁺ and HBr ⁺ . <i>Journal of Chemical Physics</i> , 1983, 78, 7073-7076.	1.2	36
137	Characterization of silicon-carbon clusters by infrared laser spectroscopy. The ν_1 band of SiC ₄ . <i>Chemical Physics Letters</i> , 1995, 237, 77-80.	1.2	35
138	Bifurcation tunneling dynamics in the water trimer. <i>Journal of Chemical Physics</i> , 2002, 117, 8823-8835.	1.2	35
139	Investigation of protein conformation and interactions with salts via X-ray absorption spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14008-14013.	3.3	35
140	Color center laser optogalvanic spectroscopy of lithium, barium, neon and argon Rydberg states in hollow cathode discharges. <i>Optics Communications</i> , 1982, 40, 277-282.	1.0	34
141	Tunable far-infrared laser spectroscopy of van der Waals bonds: the $\nu_2 = 10_1$ bending vibration of Ar-14NH ₃ . <i>Molecular Physics</i> , 1990, 71, 453-460.	0.8	34
142	Far-infrared laser vibration-rotation-tunneling spectroscopy of water clusters in the librational band region of liquid water. <i>Journal of Chemical Physics</i> , 2001, 114, 4005-4015.	1.2	34
143	Velocity modulation laser spectroscopy of negative ions: The infrared spectrum of hydrosulfide (SH ⁻). <i>Journal of Chemical Physics</i> , 1987, 86, 1698-1702.	1.2	33
144	Revisiting the total ion yield x-ray absorption spectra of liquid water microjets. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 205105.	0.7	33

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145	Velocity modulation infrared laser spectroscopy of molecular ions: The $\hat{\nu}_{1/21}$ and $\hat{\nu}_{1/23}$ bands of fluoronium (H_2F^+). Journal of Chemical Physics, 1984, 80, 2973-2974.	1.2	32
146	Measurement of the rotational spectrum of HF^+ by laser magnetic resonance. Molecular Physics, 1984, 52, 245-249.	0.8	32
147	Velocity modulation diode laser spectroscopy of negative ions: The $\hat{\nu}_{1/21}$, $\hat{\nu}_{1/21} + \hat{\nu}_{1/22}$, $\hat{\nu}_{1/21} + \hat{\nu}_{1/23}$ bands of thiocyanate (NCS^-). Journal of Chemical Physics, 1987, 87, 3352-3356.	1.2	32
148	A crystallographic analysis of C_{60} (Buckminsterfullerene). Journal of the Chemical Society Chemical Communications, 1991, , 775.	2.0	32
149	Near-Field Infrared Sum-Frequency Generation Imaging of Chemical Vapor Deposited Zinc Selenide. Langmuir, 2001, 17, 2055-2058.	1.6	32
150	The laser magnetic resonance spectrum of HCl^+ . Molecular Physics, 1982, 46, 217-221.	0.8	31
151	Laser magnetic resonance in supersonic plasmas: The rotational spectrum of SH^+ . Journal of Chemical Physics, 1987, 87, 4332-4338.	1.2	31
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