

# James M Lisy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7130821/publications.pdf>

Version: 2024-02-01

47  
papers

2,687  
citations

201674

27  
h-index

214800

47  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1483  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Cation- $\pi$ Interactions: A Theoretical Investigation of the Interaction of Metallic and Organic Cations with Alkenes, Arenes, and Heteroarenes. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1228-1238.   | 2.5  | 226       |
| 2  | Size selectivity by cation- $\pi$ interactions: Solvation of K <sup>+</sup> and Na <sup>+</sup> by benzene and water. <i>Journal of Chemical Physics</i> , 1999, 110, 8429-8435.  | 3.0  | 214       |
| 3  | Spectroscopy and structure of solvated alkali-metal ions. <i>International Reviews in Physical Chemistry</i> , 1997, 16, 267-289.   | 2.3  | 198       |
| 4  | Competitive solvation of K <sup>+</sup> by benzene and water: Cation- $\pi$ interactions and $\pi$ -hydrogen bonds. <i>Journal of Chemical Physics</i> , 1998, 108, 5151-5154.  | 3.0  | 154       |
| 5  | Dissociation of small methanol clusters after excitation of the O-H stretch vibration at 2.7 $\mu$ m. <i>Journal of Chemical Physics</i> , 1991, 95, 3924-3929.   | 3.0  | 151       |
| 6  | Changes in the electronic structure and vibrational potential of hydrogen fluoride upon dimerization: A well-correlated (HF) <sub>2</sub> potential energy surface. <i>Journal of Chemical Physics</i> , 1984, 81, 5998-6006.   | 3.0  | 138       |
| 7  | Hydrated Alkali-Metal Cations: Infrared Spectroscopy and ab Initio Calculations of M <sup>+</sup> (H <sub>2</sub> O) <sub>2</sub> Ar cluster ions for M = Li, Na, K, and Cs. <i>Journal of the American Chemical Society</i> , 2008, 130, 15381-15392.                  | 13.7 | 134       |
| 8  | Entropic Effects on Hydrated Alkali-Metal Cations: Infrared Spectroscopy and ab Initio Calculations of M <sup>+</sup> (H <sub>2</sub> O) <sub>2</sub> Cluster Ions for M = Li, Na, K, and Cs. <i>Journal of the American Chemical Society</i> , 2008, 130, 15393-15404. | 13.7 | 107       |
| 9  | Vibrational predissociation spectroscopy of Cs <sup>+</sup> (H <sub>2</sub> O) <sub>1-5</sub> . <i>Journal of Chemical Physics</i> , 1996, 105, 2938-2941.  | 3.0  | 103       |
| 10 | Gas-phase methanol solvation of Cs <sup>+</sup> : Vibrational spectroscopy and Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 1990, 93, 4589-4602.  | 3.0  | 95        |
| 11 | Infrared studies of ionic clusters: The influence of Yuan T. Lee. <i>Journal of Chemical Physics</i> , 2006, 125, 132302.   | 3.0  | 90        |
| 12 | The solvation of chloride by methanol surface versus interior cluster ion states. <i>Journal of Chemical Physics</i> , 1999, 110, 9516-9526.  | 3.0  | 77        |
| 13 | Mimicking the solvation of aqueous Na <sup>+</sup> in the gas phase. <i>Journal of Chemical Physics</i> , 2003, 118, 8555-8558.   | 3.0  | 75        |
| 14 | Electrical properties of ammonia and the structure of the ammonia dimer. <i>Journal of Chemical Physics</i> , 1986, 85, 2077-2083.  | 3.0  | 64        |
| 15 | Rotational structure in the asymmetric OH stretch of Cs <sup>+</sup> (H <sub>2</sub> O)Ar. <i>Journal of Chemical Physics</i> , 2002, 117, 4628-4631.   | 3.0  | 64        |
| 16 | Gas-Phase Cluster Ion Vibrational Spectroscopy of Na <sup>+</sup> (CH <sub>3</sub> OH) <sub>2-7</sub> . <i>The Journal of Physical Chemistry</i> , 1996, 100, 15305-15308.  | 2.9  | 58        |
| 17 | Vibrational spectroscopy of small (HF) <sub>n</sub> clusters (n=4-8) in size-selected molecular beams. <i>Journal of Chemical Physics</i> , 1995, 103, 5366-5377.   | 3.0  | 56        |
| 18 | Infrared spectroscopy of gas-phase hydrated K <sup>+</sup> :18-crown-6 complexes: Evidence for high energy conformer trapping using the argon tagging method. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 135-139.                                   | 1.5  | 53        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Gas phase solvation of Na <sup>+</sup> with methanol. <i>Journal of Chemical Physics</i> , 1992, 96, 7268-7278.  | 3.0  | 51        |
| 20 | Modeling Internal Energy Distributions in Ion Clusters: A Comparison between Experiment and Simulations. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8777-8791.  | 2.5  | 48        |
| 21 | Infrared spectroscopy of mass-selected Cs(CH <sub>3</sub> OH) <sub>n</sub> N=4. <i>Journal of Chemical Physics</i> , 1988, 89, 605-606.  | 3.0  | 41        |
| 22 | Characterization of hydrated Na <sup>+</sup> (phenol) and K <sup>+</sup> (phenol) complexes using infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 721-730.  | 3.0  | 40        |
| 23 | Revisiting Li <sup>+</sup> (H <sub>2</sub> O) <sub>3</sub> Ar Clusters: Evidence of High-Energy Conformers from Infrared Spectra. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1444-1448.   | 4.6  | 39        |
| 24 | Charge and Temperature Dependence of Biomolecule Conformations: K <sup>+</sup> Tryptamine(H <sub>2</sub> O) <sub>n</sub> Ar Clusters. <i>Journal of the American Chemical Society</i> , 2009, 131, 6314-6315.  | 13.7 | 37        |
| 25 | Insights into the Structures of the Gas-Phase Hydrated Cations M <sup>+</sup> (H <sub>2</sub> O) <sub>n</sub> Ar (M = Li, Na, K, Rb, and Cs; n = 3-5) Using Infrared Photodissociation Spectroscopy and Thermodynamic Analysis. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2037-2051. | 2.5  | 33        |
| 26 | Modeling Competitive Interactions in Proteins: Vibrational Spectroscopy of M <sup>+</sup> (n-methylacetamide) <sub>1</sub> (H <sub>2</sub> O) <sub>n</sub> Clusters. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12409-12416.  | 2.5  | 31        |
| 27 | Solvation of the Fluoride Anion by Methanol. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10015-10021.  | 2.5  | 29        |
| 28 | New cavity design for a LiNbO <sub>3</sub> optical parametric oscillator. <i>Review of Scientific Instruments</i> , 1986, 57, 1210-1212.   | 1.3  | 27        |
| 29 | Selective ion solvation in mixed solvents: Vibrational spectroscopy of Cs <sup>+</sup> [(CH <sub>3</sub> ) <sub>2</sub> CO] <sub>n</sub> (CH <sub>3</sub> OH) <sub>m</sub> cluster ions. <i>Journal of Chemical Physics</i> , 1994, 100, 4790-4796.  | 3.0  | 23        |
| 30 | Ion-peptide interactions between alkali metal ions and a termini-protected dipeptide: modeling a portion of the selectivity filter in K <sup>+</sup> channels. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 561-571.   | 2.8  | 21        |
| 31 | IR Photodissociation Spectroscopy of Na <sup>+</sup> [H <sub>2</sub> O] <sub>m</sub> [C <sub>6</sub> F <sub>6</sub> ] <sub>n</sub> Clusters: Evidence for Separation of Aqueous and Nonaqueous Phases. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9495-9498.                          | 2.5  | 19        |
| 32 | The Chemistry Merit Program: Reaching, Teaching, and Retaining Students in the Chemical Sciences. <i>Journal of Chemical Education</i> , 2007, 84, 721.  | 2.3  | 18        |
| 33 | Modeling the CH Stretch Vibrational Spectroscopy of M <sup>+</sup> [Cyclohexane] (M = Li, Na, and K) Ions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10293-10299.  | 2.5  | 18        |
| 34 | Alkali and Alkaline Earth Metal Ions Complexes with a Partial Peptide of the Selectivity Filter in K <sup>+</sup> Channels Studied by a Cold Ion Trap Infrared Spectroscopy. <i>ChemPhysChem</i> , 2020, 21, 712-724.  | 2.1  | 17        |
| 35 | Insights into Gas-Phase Structural Conformers of Hydrated Rubidium and Cesium Cations, M <sup>+</sup> (H <sub>2</sub> O) <sub>n</sub> Ar (M = Rb, Cs; n = 3-5), Using Infrared Photodissociation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1363-1373.                  | 2.5  | 16        |
| 36 | Stalking Higher Energy Conformers on the Potential Energy Surface of Charged Species. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 871-883.   | 5.3  | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Rethinking Ion Transport by Ionophores: Experimental and Computational Investigation of Single Water Hydration in Valinomycin-K <sup>+</sup> Complexes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1754-1758.   | 4.6 | 16        |
| 38 | Anharmonic vibrations of N-H in Cl <sup>-</sup> (N-methylacetamide) <sub>1</sub> (H <sub>2</sub> O) <sub>2</sub> Ar <sub>2</sub> cluster ions. Combined IRPD experiments and BOMD simulations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16736.                | 2.8 | 14        |
| 39 | O-H anharmonic vibrational motions in Cl <sup>-</sup> (CH <sub>3</sub> OH) <sub>1</sub> <sup>2</sup> ionic clusters. Combined IRPD experiments and ALMD simulations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 119, 12-17.       | 3.9 | 14        |
| 40 | Investigation of competing interactions in alkali metal ion-acetone-water clusters. <i>Chemical Physics Letters</i> , 2005, 408, 54-58.   | 2.6 | 12        |
| 41 | Double Ion Trap Laser Spectroscopy of Alkali Metal Ion Complexes with a Partial Peptide of the Selectivity Filter in K <sup>+</sup> Channels: Temperature Effect and Barrier for Conformational Conversions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9609-9618. | 2.5 | 12        |
| 42 | Influence of argon and D <sub>2</sub> tagging on the hydrogen bond network in Cs <sup>+</sup> (H <sub>2</sub> O) <sub>3</sub> ; kinetic trapping below 40 K. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28476-28486.  | 2.8 | 11        |
| 43 | Charge and Temperature Effects on Hydrated Tryptamine Cluster Ions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2669-2678.  | 2.5 | 9         |
| 44 | Potassium and sodium ion complexes with a partial peptide of the selectivity filter in K <sup>+</sup> channels studied by cold ion trap infrared spectroscopy: the effect of hydration. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12045-12050.                 | 2.8 | 7         |
| 45 | Vibrational spectroscopy of Cs <sup>+</sup> solvated by methylamine. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 207-209.  | 1.0 | 5         |
| 46 | Gas-Phase Ion Spectroscopy of Congo Red Dianions and Their Complexes with Betaine. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3211-3217.   | 2.5 | 5         |
| 47 | Building a Modern Chemistry Undergraduate Program at Hanoi University of Science-Vietnam National University: A Vietnam-U.S. Partnership. <i>ACS Symposium Series</i> , 2017, , 15-32.  | 0.5 | 1         |