

# Joseph A Fournier

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,298  
citations

430874

18  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic snapshots of the proton-transfer mechanism in water. <i>Science</i> , 2016, 354, 1131-1135.	12.6	213
2	Vibrational spectral signature of the proton defect in the three-dimensional H <sub>2</sub> O (H <sub>2</sub> O) <sub>20</sub> Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9425-9440.	12.6	111
3	Snapshots of Proton Accommodation at a Microscopic Water Surface: Understanding the Vibrational Spectral Signatures of the Charge Defect in Cryogenically Cooled H <sub>2</sub> O (H <sub>2</sub> O) <sub>20</sub> Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9425-9440.	2.5	111
4	Broadband 2D IR spectroscopy reveals dominant asymmetric H <sub>3</sub> O <sup>+</sup> proton hydration structures in acid solutions. <i>Nature Chemistry</i> , 2018, 10, 932-937.	13.6	105
5	Isomer-Specific IR Double Resonance Spectroscopy of D <sub>2</sub> -Tagged Protonated Dipeptides Prepared in a Cryogenic Ion Trap. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1099-1105.	4.6	88
6	Communication: He-tagged vibrational spectra of the SarGlyH <sup>+</sup> and H <sup>+</sup> (H <sub>2</sub> O) <sub>2,3</sub> ions: Quantifying tag effects in cryogenic ion vibrational predissociation (CIVP) spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 221101.	3.0	67
7	Interplay of Ion-Water and Water-Water Interactions within the Hydration Shells of Nitrate and Carbonate Directly Probed with 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 9634-9645.	13.7	67
8	IR spectral assignments for the hydrated excess proton in liquid water. <i>Journal of Chemical Physics</i> , 2017, 146, 154507.	3.0	61
9	Site-specific vibrational spectral signatures of water molecules in the magic H <sub>3</sub> O <sup>+</sup> (H <sub>2</sub> O) <sub>20</sub> and Cs <sup>+</sup> (H <sub>2</sub> O) <sub>20</sub> clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18132-18137.	7.1	59
10	Microhydration of Contact Ion Pairs in M <sup>2+</sup> OH <sup>+</sup> (H <sub>2</sub> O) <sub>20</sub> (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.	2.5	52
11	Anharmonic exciton dynamics and energy dissipation in liquid water from two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 145, 094501.	3.0	51
12	Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , 2017, 147, 084503.	3.0	51
13	Picosecond Proton Transfer Kinetics in Water Revealed with Ultrafast IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2792-2802.	2.6	44
14	Ionic liquids from the bottom up: Local assembly motifs in [EMIM][BF <sub>4</sub> ] through cryogenic ion spectroscopy. <i>Journal of Chemical Physics</i> , 2013, 139, 224305.	3.0	39
15	Persistence of Dual Free Internal Rotation in NH <sub>4</sub> <sup>+</sup> (H <sub>2</sub> O) <sub>3</sub> Ion-Molecule Complexes: Expanding the Case for Quantum Delocalization in He Tagging. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4170-4176.	2.5	38
16	Comparison of the local binding motifs in the imidazolium-based ionic liquids [EMIM][BF <sub>4</sub> ] and [EMMIM][BF <sub>4</sub> ] through cryogenic ion vibrational predissociation spectroscopy: Unraveling the roles of anharmonicity and intermolecular interactions. <i>Journal of Chemical Physics</i> , 2015, 142, 064306.	3.0	35
17	Isotopomer-selective spectra of a single intact H <sub>2</sub> O molecule in the Cs <sup>+</sup> (D <sub>2</sub> O) <sub>5</sub> H <sub>2</sub> O isotopologue: Going beyond pattern recognition to harvest the structural information encoded in vibrational spectra. <i>Journal of Chemical Physics</i> , 2016, 144, 074305.	3.0	23
18	Vibrational Signatures of Solvent-Mediated Deformation of the Ternary Core Ion in Size-Selected [MgSO <sub>4</sub> ] <sup>2-</sup> Mg(H <sub>2</sub> O) <sub>4</sub> <sup>+</sup> Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8294-8302.	2.5	20

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19	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.	1.5	15
20	Entropic barriers in the kinetics of aqueous proton transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034501.	3.0	13
21	Direct Observation of Ion Pairing in Aqueous Nitric Acid Using 2D Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 225-238.	2.6	12
22	Integration of Cryogenic Ion Vibrational Predissociation Spectroscopy with a Mass Spectrometric Interface to an Electrochemical Cell. <i>Analytical Chemistry</i> , 2013, 85, 7339-7344.	6.5	9
23	Time-Domain Vibrational Action Spectroscopy of Cryogenically Cooled, Messenger-Tagged Ions Using Ultrafast IR Pulses. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10235-10244.	2.5	8
24	Probing Hydrogen-Bonding Interactions within Phenol-Benzimidazole Proton-Coupled Electron Transfer Model Complexes with Cryogenic Ion Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9288-9297.	2.5	3
25	Vibrational Dynamics of the Intramolecular H-Bond in Acetylacetone Investigated with Transient and 2D IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3551-3562.	2.6	3