

Joseph A Fournier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1230351/publications.pdf>

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	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
2	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
3	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
4	Entropic barriers in the kinetics of aqueous proton transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034501.	3.0	13
5	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
6	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
7	Broadband 2D IR spectroscopy reveals dominant asymmetric H ₅ O ²⁺ proton hydration structures in acid solutions. <i>Nature Chemistry</i> , 2018, 10, 932-937.	13.6	105
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	Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , 2017, 147, 084503.	3.0	51
10	Spectroscopic snapshots of the proton-transfer mechanism in water. <i>Science</i> , 2016, 354, 1131-1135.	12.6	213
11	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.	3.0	23
12	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
13	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
14	Persistence of Dual Free Internal Rotation in NH ₄ ⁺ (H ₂ O) ₃ He ⁺ 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
15	Snapshots of Proton Accommodation at a Microscopic Water Surface: Understanding the Vibrational Spectral Signatures of the Charge Defect in Cryogenically Cooled H ₃ ⁺ (H ₂ O) ₂ Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9425-9440.	2.5	111
16	Vibrational Signatures of Solvent-Mediated Deformation of the Ternary Core Ion in Size-Selected [MgSO ₄ Mg(H ₂ O) ₄] ⁺ Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8294-8302.	2.5	20
17	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.	3.0	35
18	Communication: He-tagged vibrational spectra of the SarGlyH ⁺ and H ₃ (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.	3.0	67

#	ARTICLE	IF	CITATIONS
19	Site-specific vibrational spectral signatures of water molecules in the magic H_3O^+ (H_2O) ₂₀ and Cs^+ (H_2O) ₂₀ clusters. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18132-18137.	7.1	59
20	Vibrational spectral signature of the proton defect in the three-dimensional H^+ (H) _{Tj ETQq0 0 0 rgBT /Overlock} _{10 Tf 50 7}	12.6	111
21	Microhydration of Contact Ion Pairs in $M^{2+}OH^{\ominus}$ (H_2O) _n ($M = Mg, Ca$) Clusters: Spectral Manifestations of a Mobile Proton Defect in the First Hydration Shell. Journal of Physical Chemistry A, 2014, 118, 7590-7597.	2.5	52
22	Isolation and characterization of a peroxy manganese (III) dioxygen reaction intermediate using cryogenic ion vibrational predissociation spectroscopy. International Journal of Mass Spectrometry, 2013, 354-355, 33-38.	1.5	15
23	Ionic liquids from the bottom up: Local assembly motifs in [EMIM][BF4] through cryogenic ion spectroscopy. Journal of Chemical Physics, 2013, 139, 224305.	3.0	39
24	Integration of Cryogenic Ion Vibrational Predissociation Spectroscopy with a Mass Spectrometric Interface to an Electrochemical Cell. Analytical Chemistry, 2013, 85, 7339-7344.	6.5	9
25	Isomer-Specific IR-IR Double Resonance Spectroscopy of D ₂ -Tagged Protonated Dipeptides Prepared in a Cryogenic Ion Trap. Journal of Physical Chemistry Letters, 2012, 3, 1099-1105.	4.6	88