

Patrick J Kelleher

List of Publications by Year in descending order

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14
papers

432
citations

840776

11
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	Deconstructing water's diffuse OH stretching vibrational spectrum with cold clusters. <i>Science</i> , 2019, 364, 275-278.	12.6	53
2	Preparation of cyclohexene isotopologues and stereoisotopomers from benzene. <i>Nature</i> , 2020, 581, 288-293.	27.8	49
3	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.	4.6	47
4	Disentangling the Complex Vibrational Spectrum of the Protonated Water Trimer, $H_9O_4^+$, 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.	4.6	44
5	Persistence of Dual Free Internal Rotation in NH_4^+ He-Tagged 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
6	Isolation of site-specific anharmonicities of individual water molecules in the $\hat{A} \cdot (H_2O)_2$ complex using tag-free, isotopomer selective IR-IR double resonance. <i>Chemical Physics Letters</i> , 2017, 690, 159-171.	2.6	38
7	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.	7.1	37
8	Capturing intrinsic site-dependent spectral signatures and lifetimes of isolated OH oscillators in extended water networks. <i>Nature Chemistry</i> , 2020, 12, 159-164.	13.6	32
9	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.	2.5	27
10	Coordination-Dependent Spectroscopic Signatures of Divalent Metal Ion Binding to Carboxylate Head Groups: H_2^+ - and He-Tagged Vibrational Spectra of $M^{2+} \cdot RCO_2^-$ ($M =$) Tj ETQq0 0 0 rgBT /Overlo <i>Chemistry Letters</i> , 2017, 8, 484-488.	4.6	25
11	Vibrational Signatures of Solvent-Mediated Deformation of the Ternary Core Ion in Size-Selected $[MgSO_4 \cdot Mg(H_2O)_2]^{2+}$ Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8294-8302.	2.5	20
12	Trapping and Structural Characterization of the $XNO_2 \cdot NO_3$ ($X =$) Tj ETQq0 0 0 rgBT /Overlo Reactions with Cryogenic Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4710-4715.	4.6	11
13	Unmasking Rare, Large-Amplitude Motions in D_2 -Tagged $I \cdot (H_2O)_2$ Isotopomers with Two-Color, Infrared-Infrared Vibrational Predissociation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3744-3750.	4.6	9
14	Water Network Shape-Dependence of Local Interactions with the Microhydrated $\hat{A} \cdot NO_2$ and $\hat{A} \cdot CO_2$ Anionic Head Groups by Cold Ion Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2471-2479.	2.5	2