

Laura M Mccaslin

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

353
citations

1040056

9
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of fundamental frequencies for small polyatomic molecules: a comparison between correlation consistent and atomic natural orbital basis sets. <i>Molecular Physics</i> , 2013, 111, 1492-1496.	1.7	80
2	The Performance of Density Functionals for Sulfate-Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1368-1380.	5.3	69
3	Communication: Thermal unimolecular decomposition of syn-CH ₃ CHOO: A kinetic study. <i>Journal of Chemical Physics</i> , 2016, 145, 131102.	3.0	38
4	Chirped-Pulse Fourier Transform Microwave Spectroscopy Coupled with a Flash Pyrolysis Microreactor: Structural Determination of the Reactive Intermediate Cyclopentadienone. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2201-2207.	4.6	27
5	Refined energetic ordering for sulphate-water (n=6) clusters using high-level electronic structure calculations. <i>Molecular Physics</i> , 2012, 110, 2513-2521.	1.7	22
6	Gas-Phase Structure Determination of Dihydroxycarbene, One of the Smallest Stable Singlet Carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4089-4092.	13.8	16
7	Mechanisms and competition of halide substitution and hydrolysis in reactions of N ₂ O ₅ with seawater. <i>Science Advances</i> , 2019, 5, eaav6503.	10.3	16
8	Ultraviolet photodissociation of gas-phase iron pentacarbonyl probed with ultrafast infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 134308.	3.0	15
9	Gas-Phase Optical Detection of 3-Ethynylcyclopentenyl: A Resonance-Stabilized C ₇ H ₇ Radical with an Embedded 1-Vinylpropargyl Chromophore. <i>Journal of the American Chemical Society</i> , 2020, 142, 10400-10411.	13.7	10
10	Isomer-specific cryogenic ion vibrational spectroscopy of the D ₂ tagged Cs ⁺ (HNO ₃)(H ₂ O) _{n=0-2} complexes: ion-driven enhancement of the acidic H-bond to water. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4501-4507.	2.8	9
11	Infrared photodissociation spectroscopy of D ₂ -tagged CH ₃ CO ₂ ⁻ (H ₂ O) _{n=0-2} anions. <i>Molecular Physics</i> , 2020, 118, e1749953.	1.7	9
12	Hydration and Hydrogen Bond Order of Octadecanoic Acid and Octadecanol Films on Water at 21 and 1 Å°C. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10065-10078.	2.5	8
13	Size-Dependent Onset of Nitric Acid Dissociation in Cs ⁺ ·(HNO ₃)(H ₂ O) _{n=0-11} Clusters at 20 K. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3335-3342.	4.6	7
14	Reactive intermediates in 4He nanodroplets: Infrared laser Stark spectroscopy of dihydroxycarbene. <i>Journal of Chemical Physics</i> , 2015, 142, 144309.	3.0	6
15	Double Photodetachment of F ⁻ ·H ₂ O: Experimental and Theoretical Studies of [F·H ₂ O] ⁻ . <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6808-6813.	4.6	5
16	UV photofragmentation dynamics of acetaldehyde cations prepared by single-photon VUV ionization. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14214-14225.	2.8	4
17	Ultrafast infrared transient absorption spectroscopy of gas-phase Ni(CO) ₄ photodissociation at 261 nm. <i>Journal of Chemical Physics</i> , 2022, 156, 144306.	3.0	4
18	Ion reactions in atmospherically-relevant clusters: mechanisms, dynamics and spectroscopic signatures. <i>Faraday Discussions</i> , 2019, 217, 342-360.	3.2	3

#	ARTICLE	IF	CITATIONS
19	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	3.2	1
20	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	3.2	1
21	A VSEPR-inspired force field for determining molecular properties of PF ₅ . Molecular Physics, 2019, 117, 1344-1350.	1.7	0