Laura M Mccaslin

List of Publications by Year
in descending order

21	353	1040056 9	794594 19
papers	citations	h-index	g-index

23	23	23	607
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast infrared transient absorption spectroscopy of gas-phase Ni(CO)4 photodissociation at 261 nm. Journal of Chemical Physics, 2022, 156, 144306.	3.0	4
2	Size-Dependent Onset of Nitric Acid Dissociation in Cs⁺Â·(HNO₃)(H₂O)_{n=0â€“11} Clusters at 20 K. Journal of Physical Chemistry Letters, 2021, 12, 3335-3342.	4.6	7
3	Ultraviolet photodissociation of gas-phase iron pentacarbonyl probed with ultrafast infrared spectroscopy. Journal of Chemical Physics, 2021, 154, 134308.	3.0	15
4	Hydration and Hydrogen Bond Order of Octadecanoic Acid and Octadecanol Films on Water at 21 and 1 Â°C. Journal of Physical Chemistry A, 2021, 125, 10065-10078.	2.5	8
5	Gas-Phase Optical Detection of 3-Ethynylcyclopentenyl: A Resonance-Stabilized C7H7 Radical with an Embedded 1-Vinylpropargyl Chromophore. Journal of the American Chemical Society, 2020, 142, 10400-10411.	13.7	10
6	Isomer-specific cryogenic ion vibrational spectroscopy of the D₂ tagged Cs⁺(HNO₃)(H₂O)_{n=0â€“2} complexes: ion-driven enhancement of the acidic H-bond to water. Physical Chemistry Chemical Physics, 2020, 22, 4501-4507.	2.8	9
7	Infrared photodissociation spectroscopy of D₂-tagged CH₃CO₂^{â^’}(H₂O)_{0â^’2} anions. Molecular Physics, 2020, 118, e1749953.	1.7	9
8	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	3.2	1
9	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	3.2	1
10	Ion reactions in atmospherically-relevant clusters: mechanisms, dynamics and spectroscopic signatures. Faraday Discussions, 2019, 217, 342-360.	3.2	3
11	UV photofragmentation dynamics of acetaldehyde cations prepared by single-photon VUV ionization. Physical Chemistry Chemical Physics, 2019, 21, 14214-14225.	2.8	4
12	A VSEPR-inspired force field for determining molecular properties of PF₅. Molecular Physics, 2019, 117, 1344-1350.	1.7	0
13	Mechanisms and competition of halide substitution and hydrolysis in reactions of N ₂ O ₅ with seawater. Science Advances, 2019, 5, eaav6503.	10.3	16
14	Double Photodetachment of F^{â€“}Â·H₂O: Experimental and Theoretical Studies of [FÂ·H₂O]⁺. Journal of Physical Chemistry Letters, 2018, 9, 6808-6813.	4.6	5
15	Communication: Thermal unimolecular decomposition of syn-CH3CHOO: A kinetic study. Journal of Chemical Physics, 2016, 145, 131102.	3.0	38
16	Reactive intermediates in 4He nanodroplets: Infrared laser Stark spectroscopy of dihydroxycarbene. Journal of Chemical Physics, 2015, 142, 144309.	3.0	6
17	Gasâ€Phase Structure Determination of Dihydroxycarbene, One of the Smallest Stable Singlet Carbenes. Angewandte Chemie - International Edition, 2014, 53, 4089-4092.	13.8	16
18	Chirped-Pulse Fourier Transform Microwave Spectroscopy Coupled with a Flash Pyrolysis Microreactor: Structural Determination of the Reactive Intermediate Cyclopentadienone. Journal of Physical Chemistry Letters, 2014, 5, 2201-2207.	4.6	27

#	Article	IF	Citations
19	Calculation of fundamental frequencies for small polyatomic molecules: a comparison between correlation consistent and atomic natural orbital basis sets. Molecular Physics, 2013, 111, 1492-1496.	1.7	80
20	The Performance of Density Functionals for Sulfateâ€“Water Clusters. Journal of Chemical Theory and Computation, 2013, 9, 1368-1380.	5.3	69
21	Refined energetic ordering for sulphateâ€“water (nâ€‰=â€‰3â€“6) clusters using high-level electronic structure calculations. Molecular Physics, 2012, 110, 2513-2521.	1.7	22