

# Ilsa R Cooke

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

695  
citations

759233

12  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

748  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Search for Heterocycles in GOTHAM Observations of TMC-1. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2716-2728.	2.5	25
2	Collisional excitation of HNC by He found to be stronger than for structural isomer HCN in experiments at the low temperatures of interstellar space. <i>Nature Chemistry</i> , 2022, 14, 811-815.	13.6	8
3	PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 054301.	3.1	26
4	Collisional Energy Transfer in Uniform Supersonic Flows. , 2022, , 393-434.		0
5	Discovery of Interstellar trans-cyanovinylacetylene ( $\text{HC} \equiv \text{CCH} = \text{CHC} \equiv \text{N}$ ) and vinylcyanoacetylene ( $\text{H}_2\text{C} = \text{CHC} \equiv \text{N}$ ) in GOTHAM Observations of TMC-1. <i>Astrophysical Journal Letters</i> , 2021, 908, L11.	8.3	13
6	Detection of two interstellar polycyclic aromatic hydrocarbons via spectral matched filtering. <i>Science</i> , 2021, 371, 1265-1269.	12.6	236
7	Discovery of the Pure Polycyclic Aromatic Hydrocarbon Indene ( $\text{C}_9\text{H}_8$ ) with GOTHAM Observations of TMC-1. <i>Astrophysical Journal Letters</i> , 2021, 913, L18.	8.3	96
8	Rate Constants of the CN + Toluene Reaction from 15 to 294 K and Interstellar Implications. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7950-7958.	2.5	7
9	Design and performance of an E-band chirped pulse spectrometer for kinetics applications: OCS $\alpha$ He pressure broadening. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 250, 107001.	2.3	8
10	Benzonitrile as a Proxy for Benzene in the Cold ISM: Low-temperature Rate Coefficients for $\text{CN} + \text{C}_6\text{H}_6$ . <i>Astrophysical Journal Letters</i> , 2020, 891, L41.	8.3	49
11	Low Temperature Kinetics of the Reaction Between Methanol and the CN Radical. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9995-10003.	2.5	7
12	Experimental Studies of Gas-Phase Reactivity in Relation to Complex Organic Molecules in Star-Forming Regions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1109-1134.	2.7	34
13	Reassessing the origin and chronology of the unique achondrite Asuka 881394: Implications for distribution of $^{26}\text{Al}$ in the early Solar System. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 478-501.	3.9	24
14	Uranium isotope evidence for two episodes of deoxygenation during Oceanic Anoxic Event 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2918-2923.	7.1	100
15	CO Diffusion and Desorption Kinetics in $\text{CO}_2$ Ices. <i>Astrophysical Journal</i> , 2018, 852, 75.	4.5	20
16	Kinetic Monte Carlo simulations of water ice porosity: extrapolations of deposition parameters from the laboratory to interstellar space. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5553-5568.	2.8	14
17	Monte Carlo Modeling of Astrophysically-Relevant Temperature-Programmed Desorption Experiments. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 326-329.	0.0	0
18	$\text{CO}_2$ INFRARED PHONON MODES IN INTERSTELLAR ICE MIXTURES. <i>Astrophysical Journal</i> , 2016, 832, 5.	4.5	18

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19	A NEW SOURCE OF CO <sub>2</sub> IN THE UNIVERSE: A PHOTOACTIVATED ELEY-RIDEAL SURFACE REACTION ON WATER ICES. <i>Astrophysical Journal Letters</i> , 2014, 791, L21.	8.3	10