

Kin Long Kelvin Lee

List of Publications by Year in descending order

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45
papers

1,158
citations

471509

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414414

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all docs

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docs citations

45
times ranked

777
citing authors

#	ARTICLE	IF	CITATIONS
1	CH ₃ -Terminated Carbon Chains in the GOTHAM Survey of TMC-1: Evidence of Interstellar CH ₃ C ₇ N. <i>Astrophysical Journal</i> , 2022, 924, 21.	4.5	9
2	The dynamics of CO production from the photolysis of acetone across the whole S1 $\hat{+}$ S0 absorption spectrum: Roaming and triple fragmentation pathways.. <i>Journal of Chemical Physics</i> , 2022, 156, 094303.	3.0	1
3	A Search for Heterocycles in GOTHAM Observations of TMC-1. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2716-2728.	2.5	25
4	Interstellar detection of the highly polar five-membered ring cyanocyclopentadiene. <i>Nature Astronomy</i> , 2021, 5, 176-180.	10.1	96
5	An investigation of spectral line stacking techniques and application to the detection of HC11N. <i>Nature Astronomy</i> , 2021, 5, 188-196.	10.1	49
6	Ubiquitous aromatic carbon chemistry at the earliest stages of star formation. <i>Nature Astronomy</i> , 2021, 5, 181-187.	10.1	49
7	Discovery of Interstellar trans-cyanovinylacetylene (HC $\hat{+}$ CCH = CHC $\hat{+}$ N) and vinylcyanoacetylene (H ₂ C = CHC ₃ N) in GOTHAM Observations of TMC-1. <i>Astrophysical Journal Letters</i> , 2021, 908, L11.	8.3	13
8	A rotational and vibrational investigation of phenylpropionitrile (C ₆ H ₅ C ₃ N). <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111425.	1.2	10
9	Rotational spectroscopy and bound state calculations of deuterated NH ₃ $\hat{+}$ H ₂ van der Waals complexes. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111442.	1.2	3
10	Detection of two interstellar polycyclic aromatic hydrocarbons via spectral matched filtering. <i>Science</i> , 2021, 371, 1265-1269.	12.6	236
11	Interstellar Detection of 2-cyanocyclopentadiene, C ₅ H ₅ CN, a Second Five-membered Ring toward TMC-1. <i>Astrophysical Journal Letters</i> , 2021, 910, L2.	8.3	33
12	A high speed fitting program for rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2021, 379, 111467.	1.2	3
13	Discovery of the Pure Polycyclic Aromatic Hydrocarbon Indene (c-C ₉ H ₈) with GOTHAM Observations of TMC-1. <i>Astrophysical Journal Letters</i> , 2021, 913, L18.	8.3	96
14	Detection of interstellar H ₂ CCCHC ₃ N. <i>Astronomy and Astrophysics</i> , 2021, 652, L12.	5.1	18
15	Machine Learning of Interstellar Chemical Inventories. <i>Astrophysical Journal Letters</i> , 2021, 917, L6.	8.3	11
16	Hunting the relatives of benzonitrile: Rotational spectroscopy of dicyanobenzenes. <i>Astronomy and Astrophysics</i> , 2021, 652, A163.	5.1	6
17	Chirped-Pulse Fourier Transform Millimeter-Wave Spectroscopy of Furan, Isotopologues, and Vibrational Excited States. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2986-2994.	2.7	11
18	Descendant of the X-ogen carrier and a $\hat{+}$ mass of 69 $\hat{+}$: infrared action spectroscopic detection of HC ₃ O ⁺ and HC ₃ S ⁺ . <i>Molecular Physics</i> , 2020, 118, e1776409.	1.7	17

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19	Automated Construction of Potential Energy Surfaces Suitable to Describe van der Waals Complexes with Highly Excited Nascent Molecules: The Rotational Spectra of Ar ⁺ CS(v) and Ar ⁺ SiS(v). <i>Journal of Physical Chemistry A</i> , 2020, 124, 4445-4454.	2.5	7
20	Exhaustive Product Analysis of Three Benzene Discharges by Microwave Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5170-5181.	2.5	38
21	Molecule Identification with Rotational Spectroscopy and Probabilistic Deep Learning. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3002-3017.	2.5	21
22	Detecting Laser-Volatilized Salts with a Miniature 100-GHz Spectrometer. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1429-1436.	2.5	2
23	Bayesian Analysis of Theoretical Rotational Constants from Low-Cost Electronic Structure Methods. <i>Journal of Physical Chemistry A</i> , 2020, 124, 898-910.	2.5	22
24	Rotational Spectra of Vibrationally Excited AlO and TiO in Oxygen-rich Stars. <i>Astrophysical Journal</i> , 2020, 904, 110.	4.5	12
25	Detection of Interstellar HC ₄ NC and an Investigation of Isocyanopolyne Chemistry under TMC-1 Conditions. <i>Astrophysical Journal Letters</i> , 2020, 900, L9.	8.3	32
26	Early Science from GOTHAM: Project Overview, Methods, and the Detection of Interstellar Propargyl Cyanide (HCCCH ₂ CN) in TMC-1. <i>Astrophysical Journal Letters</i> , 2020, 900, L10.	8.3	60
27	Generation and structural characterization of Ge carbides GeC _n (n = 4, 5, 6) by laser ablation, broadband rotational spectroscopy, and quantum chemistry. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18911-18919.	2.8	5
28	Characterization of the simplest hydroperoxide ester, hydroperoxymethyl formate, a precursor of atmospheric aerosols. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18065-18070.	2.8	13
29	Searches for Interstellar HCCSH and H ₂ CCS. <i>Astrophysical Journal</i> , 2019, 883, 201.	4.5	13
30	Gas-phase synthetic pathways to benzene and benzonitrile: a combined microwave and thermochemical investigation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2946-2956.	2.8	37
31	Dynamics and quantum yields of H ₂ + CH ₂ CO as a primary photolysis channel in CH ₃ CHO. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14284-14295.	2.8	16
32	Study of Benzene Fragmentation, Isomerization, and Growth Using Microwave Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2408-2413.	4.6	25
33	Submillimeter spectroscopy and astronomical searches of vinyl mercaptan, C ₂ H ₃ SH. <i>Astronomy and Astrophysics</i> , 2019, 623, A167.	5.1	15
34	Gas phase detection and rotational spectroscopy of ethynethiol, HCCSH. <i>Molecular Physics</i> , 2019, 117, 1381-1391.	1.7	10
35	Vibrational satellites of C ₂ S, C ₃ S, and C ₄ S: microwave spectral taxonomy as a stepping stone to the millimeter-wave band. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13870-13889.	2.8	17
36	Constraints on Metal Oxide and Metal Hydroxide Abundances in the Winds of AGB Stars: Potential Detection of FeO in R Dor. <i>Astrophysical Journal</i> , 2018, 855, 113.	4.5	20

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37	Laboratory Rotational Spectra of Silyl Isocyanide. <i>Astrophysical Journal</i> , 2018, 860, 63.	4.5	1
38	Zero-point energy conservation in classical trajectory simulations: Application to H ₂ CO. <i>Journal of Chemical Physics</i> , 2018, 148, 194113.	3.0	13
39	HSCO ⁺ and DSCO ⁺ : a multi-technique approach in the laboratory for the spectroscopy of interstellar ions. <i>Astronomy and Astrophysics</i> , 2018, 620, A184.	5.1	1
40	Photodissociation of acetone from 266 to 312 nm: Dynamics of CH ₃ + CH ₃ CO channels on the <i>S</i> and <i>T</i> states. <i>Journal of Chemical Physics</i> , 2017, 146, 044304.	3.0	19
41	Detection and structural characterization of nitrosamide H ₂ NNO: A central intermediate in deNO _x processes. <i>Journal of Chemical Physics</i> , 2017, 147, 134301.	3.0	5
42	Cation States of Ethane: HEAT Calculations and Vibronic Simulations of the Photoelectron Spectrum of Ethane. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7548-7553.	2.5	4
43	Two roaming pathways in the photolysis of CH ₃ CHO between 328 and 308 nm. <i>Chemical Science</i> , 2014, 5, 4633-4638.	7.4	49
44	Triple-Resonance Spectroscopy Reveals the Excitation Spectrum of Very Cold, Isomer-Specific Protonated Naphthalene. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3728-3732.	4.6	14
45	Carbon-13 studies of sulphur-terminated carbon chains: chemical bonding, molecular structures, and formation pathways. <i>Molecular Physics</i> , 0, , .	1.7	1