

Kyle N Crabtree

List of Publications by Year in descending order

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42
papers

857
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516561

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all docs

44
docs citations

44
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotational and Vibrational Spectra of the Pyridyl Radicals: A Coupled-Cluster Study. <i>Journal of Physical Chemistry A</i> , 2022, , .	1.1	2
2	Multireference configuration interaction study of the predissociation of C2 via its $\hat{1}^1\hat{b}^1$ state. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	5
3	Correction to "Rotational and Vibrational Spectra of the Pyridyl Radicals: A Coupled-Cluster Study". <i>Journal of Physical Chemistry A</i> , 2022, 126, 4562-4562.	1.1	0
4	Coupled Cluster Characterization of 1-, 2-, and 3-Pyrrolyl: Parameters for Vibrational and Rotational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1257-1268.	1.1	4
5	Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4342-4342.	1.5	0
6	Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1680-1680.	1.1	0
7	Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1973-1973.	1.2	0
8	Ab Initio Study of Ground-state CS Photodissociation via Highly Excited Electronic States. <i>Astrophysical Journal</i> , 2019, 882, 86.	1.6	8
9	Rotational Spectrum of the $\hat{1}^2$ -Cyanovinyl Radical: A Possible Astrophysical N-Heterocycle Precursor. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5171-5177.	1.1	7
10	Oxygen-18 Isotopic Studies of HOOO and DOOO. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6296-6303.	1.1	4
11	TRES survey of variable diffuse interstellar bands. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2835-2844.	1.6	5
12	Automated microwave double resonance spectroscopy: A tool to identify and characterize chemical compounds. <i>Journal of Chemical Physics</i> , 2016, 144, 124202.	1.2	39
13	Spontaneous and Selective Formation of HSNO, a Crucial Intermediate Linking H ₂ S and Nitroso Chemistries. <i>Journal of the American Chemical Society</i> , 2016, 138, 11441-11444.	6.6	60
14	Isotopic studies of <i>trans</i> - and <i>cis</i> -HOCO using rotational spectroscopy: Formation, chemical bonding, and molecular structures. <i>Journal of Chemical Physics</i> , 2016, 144, 124304.	1.2	21
15	Microwave spectral taxonomy: A semi-automated combination of chirped-pulse and cavity Fourier-transform microwave spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 144, 124201.	1.2	54
16	The ortho:para ratio of H3+ in laboratory and astrophysical plasmas. , 2015, , .		1
17	Spectroscopic and structural characterization of three silaisocyanides: exploring an elusive class of reactive molecules at high resolution. <i>Chemical Communications</i> , 2015, 51, 11305-11308.	2.2	10
18	An Accurate Molecular Structure of Phenyl, the Simplest Aryl Radical. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1808-1811.	7.2	16

#	ARTICLE	IF	CITATIONS
19	A LABORATORY STUDY OF C ₃ H ⁺ AND THE C ₃ H RADICAL IN THREE NEW VIBRATIONALLY EXCITED ² Σ STATES USING A PIN-HOLE NOZZLE DISCHARGE SOURCE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 10.	3.0	8
20	INTERACTION BETWEEN THE BROAD-LINED TYPE Ic SUPERNOVA 2012ap AND CARRIERS OF DIFFUSE INTERSTELLAR BANDS. <i>Astrophysical Journal Letters</i> , 2014, 782, L5.	3.0	21
21	Gas-Phase Structure Determination of Dihydroxycarbene, One of the Smallest Stable Singlet Carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4089-4092.	7.2	16
22	MOLECULAR STRUCTURE OF THE PHENYL RADICAL (C ₆ H ₅)., 2014, , .		0
23	THE SIMPLEST CRIEGEE INTERMEDIATE (H ₂ C=O ⁺): EQUILIBRIUM STRUCTURE AND POSSIBLE FORMATION FROM ATMOSPHERIC LIGHTNING. , 2014, , .		0
24	Detection of Two Highly Stable Silicon Nitrides: HSiSi and H ₃ SiSi. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11282-11288.	1.1	15
25	Detection and Structure of HOON: Microwave Spectroscopy Reveals an O ⁺ O Bond Exceeding 1.9 Å... <i>Science</i> , 2013, 342, 1354-1357.	6.0	29
26	DETECTION OF E-CYANOMETHANIMINE TOWARD SAGITTARIUS B2(N) IN THE GREEN BANK TELESCOPE PRIMOS SURVEY. <i>Astrophysical Journal Letters</i> , 2013, 765, L10.	3.0	99
27	Microwave Detection of Sulfoxylic Acid (HOSO ₂ H). <i>Journal of Physical Chemistry A</i> , 2013, 117, 3608-3613.	1.1	24
28	On the Symmetry and Degeneracy of H ₃ ⁺ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9950-9958.	1.1	4
29	Detection of Nitrogen-Protonated Nitrous Oxide (HNNO ⁺) by Rotational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9968-9974.	1.1	10
30	The Simplest Criegee Intermediate (H ₂ C=O ⁺): Isotopic Spectroscopy, Equilibrium Structure, and Possible Formation from Atmospheric Lightning. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4133-4139.	2.1	88
31	The ortho:para ratio of H ₃ ⁺ in laboratory and astrophysical plasmas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5055-5065.	1.6	8
32	Storage ring measurements of the dissociative recombination of H ₃ ⁺ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5088-5100.	1.6	12
33	Sub-Doppler mid-infrared spectroscopy of molecular ions. <i>Chemical Physics Letters</i> , 2012, 551, 1-6.	1.2	34
34	ON THE ORTHO:PARA RATIO OF H ₃ ⁺ IN DIFFUSE MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2011, 729, 15.	1.6	67
35	Nuclear spin dependence of the reaction of $\{^m\text{H}\}_3^+ + \text{H}_3^+$ with H ₂ . I. Kinetics and modeling. <i>Journal of Chemical Physics</i> , 2011, 134, 194310.	1.2	27
36	Nuclear spin dependence of the reaction of $\{^m\text{H}\}_3^+ + \text{H}_3^+$ with H ₂ . II. Experimental measurements. <i>Journal of Chemical Physics</i> , 2011, 134, 194311.	1.2	33

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37	High-resolution storage-ring measurements of the dissociative recombination of H^+ a supersonic expansion ion source. <i>Physical Review A</i> , 2010, 82, .	1.0	48
38	Note: A modular and robust continuous supersonic expansion discharge source. <i>Review of Scientific Instruments</i> , 2010, 81, 086103.	0.6	6
39	Communications: Development and characterization of a source of rotationally cold, enriched para-H3+. <i>Journal of Chemical Physics</i> , 2010, 132, 081103.	1.2	6
40	Dissociative recombination of highly enriched para-H3+. <i>Journal of Chemical Physics</i> , 2009, 130, 031101.	1.2	31
41	Comparative Study of the Photochemistry of the Azidopyridine 1-Oxides. <i>Journal of Organic Chemistry</i> , 2008, 73, 3441-3451.	1.7	16
42	The Photochemistry of 4-Azidopyridine-1-oxide. <i>Journal of Organic Chemistry</i> , 2006, 71, 9023-9029.	1.7	11