

Kyle N Crabtree

List of Publications by Year in descending order

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42
papers

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times ranked

1022
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | The Simplest Criegee Intermediate (H ₂ •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 |
| 3 | ON THE ORTHO: PARA RATIO OF H ⁺ IN DIFFUSE MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2011, 729, 15. | 1.6 | 67 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Sub-Doppler mid-infrared spectroscopy of molecular ions. <i>Chemical Physics Letters</i> , 2012, 551, 1-6. | 1.2 | 34 |
| 9 | Nuclear spin dependence of the reaction of $m H^+_3$ with H ₂ . II. Experimental measurements. <i>Journal of Chemical Physics</i> , 2011, 134, 194311. | 1.2 | 33 |
| 10 | Dissociative recombination of highly enriched para-H ₃ ⁺ . <i>Journal of Chemical Physics</i> , 2009, 130, 031101. | 1.2 | 31 |
| 11 | 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 |
| 12 | Nuclear spin dependence of the reaction of $m H^+_3$ with H ₂ . I. Kinetics and modeling. <i>Journal of Chemical Physics</i> , 2011, 134, 194310. | 1.2 | 27 |
| 13 | Microwave Detection of Sulfoxylic Acid (HOSO ₂ H). <i>Journal of Physical Chemistry A</i> , 2013, 117, 3608-3613. | 1.1 | 24 |
| 14 | 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 |
| 15 | 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 |
| 16 | Comparative Study of the Photochemistry of the Azidopyridine 1-Oxides. <i>Journal of Organic Chemistry</i> , 2008, 73, 3441-3451. | 1.7 | 16 |
| 17 | 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 |
| 18 | An Accurate Molecular Structure of Phenyl, the Simplest Aryl Radical. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1808-1811. | 7.2 | 16 |

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|----|--|-----|-----------|
| 19 | Detection of Two Highly Stable Silicon Nitrides: HSiNSi and H ₃ SiNSi. Journal of Physical Chemistry A, 2013, 117, 11282-11288. | 1.1 | 15 |
| 20 | Storage ring measurements of the dissociative recombination of H ₃ ⁺ . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5088-5100. | 1.6 | 12 |
| 21 | The Photochemistry of 4-Azidopyridine-1-oxide. Journal of Organic Chemistry, 2006, 71, 9023-9029. | 1.7 | 11 |
| 22 | Detection of Nitrogen-Protonated Nitrous Oxide (HNNO ⁺) by Rotational Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 9968-9974. | 1.1 | 10 |
| 23 | Spectroscopic and structural characterization of three silaisocyanides: exploring an elusive class of reactive molecules at high resolution. Chemical Communications, 2015, 51, 11305-11308. | 2.2 | 10 |
| 24 | The ortho:para ratio of H ₃ ⁺ in laboratory and astrophysical plasmas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5055-5065. | 1.6 | 8 |
| 25 | 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. Astrophysical Journal, Supplement Series, 2015, 217, 10. | 3.0 | 8 |
| 26 | Ab Initio Study of Ground-state CS Photodissociation via Highly Excited Electronic States. Astrophysical Journal, 2019, 882, 86. | 1.6 | 8 |
| 27 | Rotational Spectrum of the ¹ 2-Cyanovinyl Radical: A Possible Astrophysical N-Heterocycle Precursor. Journal of Physical Chemistry A, 2019, 123, 5171-5177. | 1.1 | 7 |
| 28 | Note: A modular and robust continuous supersonic expansion discharge source. Review of Scientific Instruments, 2010, 81, 086103. | 0.6 | 6 |
| 29 | Communications: Development and characterization of a source of rotationally cold, enriched para-H ₃ ⁺ . Journal of Chemical Physics, 2010, 132, 081103. | 1.2 | 6 |
| 30 | TRES survey of variable diffuse interstellar bands. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2835-2844. | 1.6 | 5 |
| 31 | Multireference configuration interaction study of the predissociation of C ₂ via its ¹ F ₁ ¹ Σ _u state. Journal of Chemical Physics, 2022, 157, . | 1.2 | 5 |
| 32 | On the Symmetry and Degeneracy of H ₃ ⁺ . Journal of Physical Chemistry A, 2013, 117, 9950-9958. | 1.1 | 4 |
| 33 | Oxygen-18 Isotopic Studies of HOOO and DOOO. Journal of Physical Chemistry A, 2017, 121, 6296-6303. | 1.1 | 4 |
| 34 | Coupled Cluster Characterization of 1-, 2-, and 3-Pyrrolyl: Parameters for Vibrational and Rotational Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 1257-1268. | 1.1 | 4 |
| 35 | Rotational and Vibrational Spectra of the Pyridyl Radicals: A Coupled-Cluster Study. Journal of Physical Chemistry A, 2022, , . | 1.1 | 2 |
| 36 | The ortho:para ratio of H ₃ ⁺ in laboratory and astrophysical plasmas. , 2015, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. Journal of Physical Chemistry C, 2021, 125, 4342-4342. | 1.5 | 0 |
| 38 | Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. Journal of Physical Chemistry A, 2021, 125, 1680-1680. | 1.1 | 0 |
| 39 | Viewpoint on ACS PHYS Division Sponsored Virtual Seminars. Journal of Physical Chemistry B, 2021, 125, 1973-1973. | 1.2 | 0 |
| 40 | MOLECULAR STRUCTURE OF THE PHENYL RADICAL (C6H5)., 2014, , . | | 0 |
| 41 | THE SIMPLEST CRIEGEE INTERMEDIATE (H2C=Oâ€“O): EQUILIBRIUM STRUCTURE AND POSSIBLE FORMATION FROM ATMOSPHERIC LIGHTNING. , 2014, , . | | 0 |
| 42 | Correction to â€œRotational and Vibrational Spectra of the Pyridyl Radicals: A Coupled-Cluster Studyâ€• Journal of Physical Chemistry A, 2022, 126, 4562-4562. | 1.1 | 0 |