

Kirill Prozument

List of Publications by Year in descending order

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papers

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430874

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27
docs citations

27
times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational optimal transport for molecular spectra: The semi-discrete case. <i>Journal of Chemical Physics</i> , 2022, 156, 134117.	3.0	5
2	Substitution Reactions in the Pyrolysis of Acetone Revealed through a Modeling, Experiment, Theory Paradigm. <i>Journal of the American Chemical Society</i> , 2021, 143, 3124-3142.	13.7	28
3	Computational optimal transport for molecular spectra: The fully discrete case. <i>Journal of Chemical Physics</i> , 2021, 155, 184101.	3.0	8
4	Photodissociation transition states characterized by chirped pulse millimeter wave spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 146-151.	7.1	11
5	Mixed ortho- H ₂ and para- H ₂ clusters studied by vibrational coherent anti-Stokes Raman spectroscopy. <i>Physical Review B</i> , 2020, 101, .	3.2	3
6	Boundary-Layer Model to Predict Chemically Reacting Flow within Heated, High-Speed, Microtubular Reactors. <i>International Journal of Chemical Kinetics</i> , 2018, 50, 473-480.	1.6	12
7	Automated assignment of rotational spectra using artificial neural networks. <i>Journal of Chemical Physics</i> , 2018, 149, 104106.	3.0	29
8	The broadband rotational spectrum of fully deuterated acetaldehyde (CD ₃ CDO) in a CW supersonic expansion. <i>Journal of Molecular Spectroscopy</i> , 2017, 342, 17-24.	1.2	12
9	Pseudo-equilibrium geometry of HNO determined by an E-Band CP-FTmmW spectrometer. <i>Chemical Physics Letters</i> , 2017, 680, 101-108.	2.6	11
10	Time-Resolved Kinetic Chirped-Pulse Rotational Spectroscopy in a Room-Temperature Flow Reactor. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6180-6188.	4.6	18
11	Infrared Spectroscopy and Structure of (NO) _n Clusters. <i>Journal of Physical Chemistry A</i> , 2016, 120, 527-534.	2.5	16
12	Chirped-pulse millimeter-wave spectroscopy for dynamics and kinetics studies of pyrolysis reactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15739-15751.	2.8	54
13	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. II. Performance and applications for reaction dynamics. <i>Journal of Chemical Physics</i> , 2014, 141, 214203.	3.0	54
14	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. I. The low-temperature flow system. <i>Journal of Chemical Physics</i> , 2014, 141, 154202.	3.0	46
15	A Signature of Roaming Dynamics in the Thermal Decomposition of Ethyl Nitrite: Chirped-Pulse Rotational Spectroscopy and Kinetic Modeling. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3641-3648.	4.6	28
16	A new approach toward transition state spectroscopy. <i>Faraday Discussions</i> , 2013, 163, 33.	3.2	39
17	Chirped-pulse millimeter-wave spectroscopy: Spectrum, dynamics, and manipulation of Rydberg-Rydberg transitions. <i>Journal of Chemical Physics</i> , 2013, 138, 014301.	3.0	20
18	Chirped-Pulse Millimeter-Wave Spectroscopy of Rydberg-Rydberg Transitions. <i>Physical Review Letters</i> , 2011, 107, 143001.	7.8	22

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19	Design and evaluation of a pulsed-jet chirped-pulse millimeter-wave spectrometer for the 70–102 GHz region. <i>Journal of Chemical Physics</i> , 2011, 135, 024202.	3.0	70
20	Spectrum and infrared intensities of OH-stretching bands of water dimers. <i>Journal of Chemical Physics</i> , 2010, 132, 014304.	3.0	110
21	Hydrogen Clusters that Remain Fluid at Low Temperature. <i>Physical Review Letters</i> , 2008, 101, 205301.	7.8	40
22	Infrared Spectra and Intensities of the H ₂ O and N ₂ Complexes in the Range of the $\hat{1}/21$ - and $\hat{1}/23$ -Bands of Water. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10046-10052.	2.5	32
23	Spectra of the $\hat{1}/21$ and $\hat{1}/23$ bands of water molecules in helium droplets. <i>Chemical Physics Letters</i> , 2006, 427, 5-9.	2.6	42
24	Infrared intensity in small ammonia and water clusters. <i>Journal of Chemical Physics</i> , 2006, 124, 241101.	3.0	87
25	Satellite Band in the Rovibrational Spectrum of CO ₂ in Helium Droplets. <i>Physical Review Letters</i> , 2005, 94, 195301.	7.8	23
26	Solid hydrogen Raman shifter for the mid-infrared range (44–8 $\hat{1}/4$ μ m). <i>Applied Optics</i> , 2004, 43, 6023.	2.1	14
27	Investigations of the interference of surface plasmons on rough silver surface by scanning plasmon near-field microscope. <i>Ultramicroscopy</i> , 2001, 88, 127-138.	1.9	19