

Paul L Raston

List of Publications by Year in descending order

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47
papers

1,005
citations

567144

15
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434063

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49
docs citations

49
times ranked

892
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the Coriolis Coupled Far-Infrared Bands of <i>syn</i> -Vinyl Alcohol. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2569-2577.	1.1	2
2	The Synchrotron-based Far-infrared Spectrum of Glycolaldehyde. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 40.	3.0	2
3	HeNDS: A program for calculating average Helium NanoDroplet Sizes. <i>SoftwareX</i> , 2021, 14, 100703.	1.2	3
4	Laser spectroscopy of helium solvated molecules: probing the inertial response. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25467-25479.	1.3	3
5	FIR spectroscopy and DFT calculations involving 2-chloroethanol: Analysis of the $\hat{1}/219\hat{A} + \hat{1}/221\hat{A} \dagger \hat{1}/221$ torsional hot band, and the solvated substitution reaction between ethylene glycol and hydrogen chloride. <i>Journal of Molecular Structure</i> , 2020, 1217, 128369.	1.8	2
6	Concerning the asymmetric top rotational partition function in astronomical spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2020, 370, 111292.	0.4	6
7	Observation of the elusive \hat{e} -oxygen-in \hat{e} -OCS dimer. <i>Journal of Chemical Physics</i> , 2020, 152, 221102.	1.2	6
8	Far-Infrared Synchrotron Spectroscopy of a Potentially Important Interstellar Isotopologue of Vinyl Alcohol: CH ₂ CHOD. <i>Journal of Physical Chemistry A</i> , 2020, 124, 704-710.	1.1	4
9	Synchrotron-based infrared spectroscopy of formic acid: Confirmation of the reassignment of Fermi-coupled 8 $\hat{1}/4m$ states. <i>AIP Advances</i> , 2019, 9, .	0.6	12
10	Laser Spectroscopy of Methanol Isotopologues in ⁴ He Nanodroplets: Probing the Inertial Response around a Moderately Light Rotor. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1630-1636.	1.1	6
11	Comment on \hat{e} Revisiting the formation of cyclic clusters in liquid ethanol \hat{e} . [J. Chem. Phys. 144, 154302 (2016)]. <i>Journal of Chemical Physics</i> , 2019, 150, 057101.	1.2	2
12	Far-Infrared Synchrotron Spectroscopy and Quantum Chemical Calculations of the Potentially Important Interstellar Molecule, 2-Chloroethanol. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1208-1216.	1.1	6
13	Quantum cascade laser spectroscopy of OCS isotopologues in 4He nanodroplets: A test of adiabatic following for a heavy rotor. <i>Journal of Chemical Physics</i> , 2018, 148, 044308.	1.2	9
14	Rotational Spectroscopic Study of Quantum Solvation in Isotopologic (<i>p</i> -H ₂) ₂ ⁺ N ⁻ CO Clusters. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3671-3678.	1.1	2
15	Far-Infrared Synchrotron Spectroscopy and Torsional Analysis of the Important Interstellar Molecule, Vinyl Alcohol. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 70-79.	1.2	14
16	Microwave spectroscopy of carbonyl sulfide isotopologues solvated with 2 \hat{e} 5 para-hydrogen molecules. <i>Journal of Molecular Spectroscopy</i> , 2017, 341, 23-26.	0.4	2
17	Infrared Spectroscopy of the Entrance Channel Complex Formed Between the Hydroxyl Radical and Methane in Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7597-7602.	1.1	6
18	Far-infrared Spectroscopic Characterization of Anti-vinyl Alcohol. <i>Astrophysical Journal</i> , 2017, 847, 67.	1.6	14

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19	Infrared Stark and Zeeman spectroscopy of OH ⁺ CO: The entrance channel complex along the OH + CO \hat{a}^+ trans-HOCO reaction pathway. <i>Journal of Chemical Physics</i> , 2016, 145, 124310.	1.2	6
20	Mid-infrared signatures of hydroxyl containing water clusters: Infrared laser Stark spectroscopy of OH ⁺ H ₂ O and OH(D ₂ O) ($n = 1-3$). <i>Journal of Chemical Physics</i> , 2015, 143, 164304.	1.2	23
21	FAR-INFRARED SPECTROSCOPY OF THE H ₂ -O ₂ VAN DER WAALS COMPLEX. <i>Astrophysical Journal</i> , 2015, 799, 65.	1.6	7
22	Kinetic studies of the infrared-induced reaction between atomic chlorine and solid parahydrogen. <i>Journal of Molecular Spectroscopy</i> , 2015, 310, 72-83.	0.4	17
23	Infrared rovibrational spectroscopy of OH ⁺ C ₂ H ₂ in 4He nanodroplets: Parity splitting due to partially quenched electronic angular momentum. <i>Journal of Chemical Physics</i> , 2015, 142, 134306.	1.2	9
24	Microwave spectroscopy of the seeded binary and ternary clusters CO-(pH ₂) ₂ , CO-pH ₂ -He, CO-HD, and CO-(oD ₂) _{N=1,2} . <i>Journal of Chemical Physics</i> , 2015, 142, 144308.	1.2	3
25	Single and double resonance spectroscopy of methanol embedded in superfluid helium nanodroplets. <i>Journal of Chemical Physics</i> , 2014, 141, 044301.	1.2	13
26	Observation of the $Q(3/2)$ \hat{b} -doublet transitions for $X^{2+} \hat{b}_{3/2} OD$ in helium nanodroplets. <i>Molecular Physics</i> , 2014, 112, 301-303.	0.8	4
27	Liquid Hot NAGMA Cooled to 0.4 K: Benchmark Thermochemistry of a Gas-Phase Peptide. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9692-9700.	1.1	14
28	Helium Nanodroplet Isolation and Infrared Spectroscopy of the Isolated Ion-Pair 1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9047-9056.	1.1	34
29	Rovibrational spectroscopy of formaldehyde in helium nanodroplets. <i>Journal of Molecular Spectroscopy</i> , 2013, 292, 15-19.	0.4	11
30	The ethyl radical in superfluid helium nanodroplets: Rovibrational spectroscopy and <i>ab initio</i> computations. <i>Journal of Chemical Physics</i> , 2013, 138, 194303.	1.2	26
31	Infrared spectroscopy and tunneling dynamics of the vinyl radical in 4He nanodroplets. <i>Journal of Chemical Physics</i> , 2013, 138, 174302.	1.2	12
32	Dipole Moment of the HOOO Radical: Resolution of a Structural Enigma. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3584-3589.	2.1	23
33	Rotational Dynamics of the Methyl Radical in Superfluid ⁴ He Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11640-11647.	1.1	27
34	Anomalous \hat{b} -Doubling in the Infrared Spectrum of the Hydroxyl Radical in Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8103-8110.	1.1	24
35	High-resolution infrared spectroscopy of atomic bromine in solid parahydrogen and orthodeuterium. <i>Journal of Chemical Physics</i> , 2013, 139, 134304.	1.2	12
36	Helium Nanodroplet Isolation Spectroscopy and <i>ab Initio</i> Calculations of HO ₃ (O ₂) _n Clusters. <i>ChemPhysChem</i> , 2013, 14, 764-770.	1.0	6

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37	Infrared spectroscopy of H ₂ O ₂ and D ₂ O ₂ in 4He nanodroplets. <i>Journal of Chemical Physics</i> , 2012, 137, 184302.	1.2	30
38	Infrared spectroscopy of HOCl embedded in superfluid helium nanodroplets: Probing the dynamical response of the solvent. <i>Journal of Chemical Physics</i> , 2012, 137, 014302.	1.2	7
39	Rotovibrational spectroscopy of hydrogen peroxide embedded in superfluid helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18789.	1.3	18
40	Rotational spectroscopy of single carbonyl sulfide molecules embedded in superfluid helium nanodroplets. <i>Faraday Discussions</i> , 2009, 142, 297.	1.6	22
41	The Cl + H ₂ → HCl + H Reaction Induced by IR + UV Irradiation of Cl ₂ in Solid <i>para</i> -H ₂ : Experiment. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7621-7629.	1.1	31
42	Photodissociation of Molecular Bromine in Solid H ₂ and D ₂ : Spectroscopy of the Atomic Bromine Spin-Orbit Transition. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11153-11158.	1.1	10
43	The spin-orbit transition of atomic chlorine in solid H ₂ , HD, and D ₂ . <i>Journal of Chemical Physics</i> , 2007, 126, 021106.	1.2	32
44	Infrared spectroscopic studies of the rare gas atom perturbed S ₁ (0) rovibron band of solid parahydrogen. <i>Journal of Molecular Spectroscopy</i> , 2007, 244, 138-145.	0.4	7
45	Infrared-induced reaction of Cl atoms trapped in solid parahydrogen. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3124.	1.3	55
46	Infrared spectroscopy of chemically doped solid parahydrogen. <i>International Reviews in Physical Chemistry</i> , 2006, 25, 469-496.	0.9	89
47	A Well-Resolved Ice-like (H ₂ O) ₈ Cluster in an Organic Supramolecular Complex. <i>Journal of the American Chemical Society</i> , 2001, 123, 7192-7193.	6.6	332