

Roland Täbijs

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Accurate empirical rovibrational energies and transitions of H ₂ ¹⁶ O. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3473-3495.	2.8	54
2	Spectroscopic-network-assisted precision spectroscopy and its application to water. <i>Nature Communications</i> , 2020, 11, 1708.	12.8	35
3	Critical evaluation of measured rotational-vibrational transitions of four sulphur isotopologues of S16O2. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 208, 152-163.	2.3	32
4	The W2020 Database of Validated Rovibrational Experimental Transitions and Empirical Energy Levels of Water Isotopologues. II. H217O and H218O with an Update to H216O. <i>Journal of Physical and Chemical Reference Data</i> , 2020, 49, .	4.2	28
5	W2020: A Database of Validated Rovibrational Experimental Transitions and Empirical Energy Levels of H216O. <i>Journal of Physical and Chemical Reference Data</i> , 2020, 49, .	4.2	23
6	An improved rovibrational linelist of formaldehyde, H ₂ C. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 200, 1-10. $\text{H}_2\text{C} = \text{H}-\overset{\text{H}}{\text{C}}-\text{H}$	2.3	21
7	MAVEL analysis on the measured high-resolution spectra of ammonia. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 200, 1-10. $\text{NH}_3 = \text{N}(\text{H})_3$	1.2	20
8	Empirical rovibrational energy levels of ammonia up to 7500 cm ⁻¹ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 251, 107027.	2.3	20
9	Cycle bases to the rescue. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 557-564.	2.3	17
10	Network-Based Design of Near-Infrared Lamb-Dip Experiments and the Determination of Pure Rotational Energies of H218O at kHz Accuracy. <i>Journal of Physical and Chemical Reference Data</i> , 2021, 50, .	4.2	10
11	Simple algebraic solutions to the kinetic problems of triangle, quadrangle and pentangle reactions. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 85-99.	1.5	9
12	Ultraprecise relative energies in the (2 0 0) vibrational band of H ₂ ¹⁶ O. <i>Molecular Physics</i> , 2022, 120, .	1.7	8
13	First-order chemical reaction networks I: theoretical considerations. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 1863-1878.	1.5	5
14	autoECART: Automatic energy conservation analysis of rovibronic transitions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107756.	2.3	5
15	Vector algebra and molecular symmetry: a tribute to Professor Josiah Willard Gibbs. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 2187-2195.	1.5	2
16	Definitive thermochemistry and kinetics of the interconversions among conformers of n-butane and n-pentane. <i>Journal of Computational Chemistry</i> , 2018, 39, 424-437.	3.3	2
17	Normal-Mode Vibrational Analysis of Weakly Bound Oligomers at Constrained Stationary Points of Arbitrary Order. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1788-1798.	5.3	1