

# Bastien Vispoel

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

153  
citations

1163117

8  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

110  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the temperature dependence of half-widths and line shifts for molecular transitions in the microwave and infrared regions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 440-452.	2.3	43
2	Total internal partition sums for the HITRAN2020 database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 271, 107713.	2.3	35
3	Line shape parameters for the H <sub>2</sub> O-H <sub>2</sub> collision system for application to exoplanet and planetary atmospheres. <i>Icarus</i> , 2018, 306, 275-284.	2.5	13
4	Modified complex Robert-Bonamy calculations of line shape parameters and their temperature dependence for water vapor in collision with N <sub>2</sub> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 228, 79-89.	2.3	10
5	Vibrational dependence, temperature dependence, and prediction of line shape parameters for the H <sub>2</sub> O-N <sub>2</sub> collision system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107030.	2.3	10
6	Line shape parameters of air-broadened water vapor transitions in the $\hat{1}\frac{1}{2}1$ and $\hat{1}\frac{1}{2}3$ spectral region. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 13-36.	1.2	9
7	Partition sums for non-local thermodynamic equilibrium conditions for nine molecules of importance in planetary atmospheres. <i>Icarus</i> , 2022, 378, 114947.	2.5	9
8	Vibrational dependence, temperature dependence, and prediction of line shape parameters for the H <sub>2</sub> O-H <sub>2</sub> collision system. <i>Icarus</i> , 2019, 326, 186-196.	2.5	8
9	N <sub>2</sub> -shift coefficients in the $\hat{1}\frac{1}{2}3$ band of 12CH <sub>4</sub> at room temperature. <i>Journal of Molecular Spectroscopy</i> , 2014, 298, 7-10.	1.2	6
10	CO <sub>2</sub> -broadening coefficients in the $\hat{1}\frac{1}{2}3$ fundamental band of methane. <i>Journal of Molecular Spectroscopy</i> , 2019, 360, 1-6.	1.2	5
11	Reduced matrix elements for collisionally induced transitions of 12CH <sub>4</sub> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 31-39.	2.3	3
12	N <sub>2</sub> -collisional shift coefficients of lines in the $\hat{1}\frac{1}{2}3$ band of methane from low to high temperatures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 239, 106654.	2.3	2
13	Reduced matrix elements in semi-classical line shape calculations: Application to H <sub>2</sub> O-H <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , 2019, 1289, 012023.	0.4	0