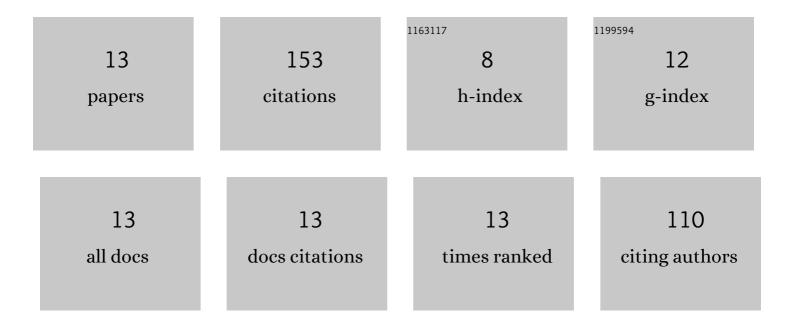
Bastien Vispoel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the temperature dependence of half-widths and line shifts for molecular transitions in the microwave and infrared regions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 440-452.	2.3	43
2	Total internal partition sums for the HITRAN2020 database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107713.	2.3	35
3	Line shape parameters for the H2O–H2 collision system for application to exoplanet and planetary atmospheres. Icarus, 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 N2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 79-89.	2.3	10
5	Vibrational dependence, temperature dependence, and prediction of line shape parameters for the H2O-N2 collision system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107030.	2.3	10
6	Line shape parameters of air-broadened water vapor transitions in the ν1 and ν3 spectral region. Journal of Molecular Spectroscopy, 2018, 348, 13-36.	1.2	9
7	Partition sums for non-local thermodynamic equilibrium conditions for nine molecules of importance in planetary atmospheres. Icarus, 2022, 378, 114947.	2.5	9
8	Vibrational dependence, temperature dependence, and prediction of line shape parameters for the H2O-H2 collision system. Icarus, 2019, 326, 186-196.	2.5	8
9	N2-shift coefficients in the ν3 band of 12CH4 at room temperature. Journal of Molecular Spectroscopy, 2014, 298, 7-10.	1.2	6
10	CO2-broadening coefficients in the ν3 fundamental band of methane. Journal of Molecular Spectroscopy, 2019, 360, 1-6.	1.2	5
11	Reduced matrix elements for collisionally induced transitions of 12CH4. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 31-39.	2.3	3
12	N2-collisional shift coefficients of lines in the ν3 band of methane from low to high temperatures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106654.	2.3	2
13	Reduced matrix elements in semi-classical line shape calculations: Application to H2O-H2. Journal of Physics: Conference Series, 2019, 1289, 012023.	0.4	Ο