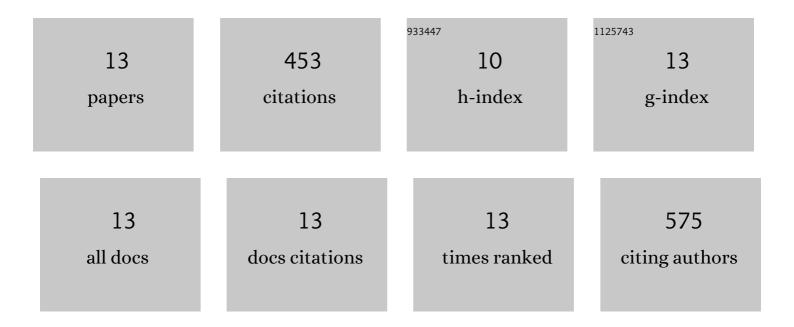
## **Christian Boulet**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11177892/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Update of the HITRAN collision-induced absorption section. Icarus, 2019, 328, 160-175.	2.5	105
2	Recent advances in collisional effects on spectra of molecular gases and their practical consequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 178-227.	2.3	85
3	Semiclassical calculations of half-widths and line shifts for transitions in the 30012â†00001 and 30013â†00001 bands of CO2. III: Self collisions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1536-1546.	2.3	45
4	Semiclassical calculations of half-widths and line shifts for transitions in the 30012â†00001 and 30013â†00001 bands of CO2, I: Collisions with N2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 976-990.	2.3	43
5	Semiclassical calculations of half-widths and line shifts for transitions in the 30012â†00001 and 30013â†00001 bands of CO2 II: Collisions with O2 and air. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 991-1003.	2.3	41
6	Far infrared measurements of absorptions by CH4 + CO2 and H2 + CO2 mixtures and implications for greenhouse warming on early Mars. Icarus, 2019, 321, 189-199.	2.5	31
7	Measurements and semi-empirical calculations of CO2 + CH4 and CO2 + H2 collision-induced absorptic across a wide range of wavelengths and temperatures. Application for the prediction of early Mars surface temperature. Icarus, 2020, 346, 113762.	on 2.5	31
8	Comparison of quantum, semi-classical and classical methods in the calculation of nitrogen self-broadened linewidths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1887-1897.	2.3	27
9	Effect of humidity on the absorption continua of CO2 and N2 near 4 <i>μ</i> m: Calculations, comparisons with measurements, and consequences for atmospheric spectra. Journal of Chemical Physics, 2018, 148, 054304.	3.0	16
10	Line interference effects using a refined Robert-Bonamy formalism: The test case of the isotropic Raman spectra of autoperturbed N2. Journal of Chemical Physics, 2014, 140, 084310.	3.0	14
11	Line coupling effects in the isotropic Raman spectra of N2: A quantum calculation at room temperature. Journal of Chemical Physics, 2014, 140, 044303.	3.0	6
12	Line mixing effects in isotropic Raman spectra of pure N2: A classical trajectory study. Journal of Chemical Physics, 2014, 141, 184306.	3.0	5
13	Toward measurements of the speed-dependence of line-mixing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107510.	2.3	4