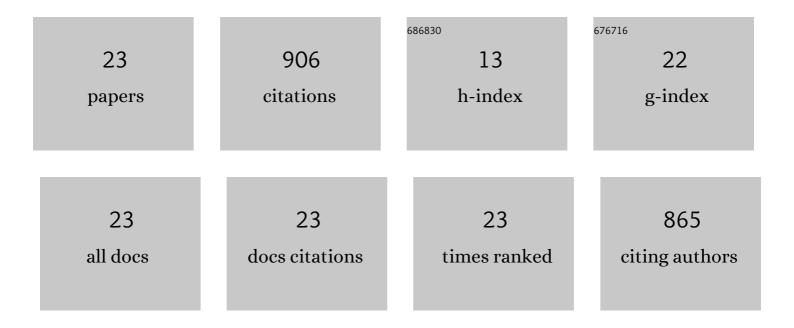
## Jean-Michel Hartmann

List of Publications by Year in descending order

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| #  | Article  | IF       | CITATIONS    |
|----|--|----------|--------------|
| 1  | Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq1 1  | 0.784314 | l rgBT /Over |
| 2  | Update of the HITRAN collision-induced absorption section. Icarus, 2019, 328, 160-175.   | 1.1      | 105          |
| 3  | 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.  | 1.1      | 85           |
| 4  | Collisional parameters of H2O lines: effects of vibration. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 83, 119-147.   | 1.1      | 82           |
| 5  | Infrared collision-induced absorption by N_2 near 43 μm for atmospheric applications: measurements and empirical modeling. Applied Optics, 1996, 35, 5911.   | 2.1      | 76           |
| 6  | An intercomparison of measured pressure-broadening and pressure-shifting parameters of water vapor. Canadian Journal of Chemistry, 2004, 82, 1013-1027.  | 0.6      | 62           |
| 7  | 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.            | 1.1      | 45           |
| 8  | Semiclassical calculations of half-widths and line shifts for transitions in the 30012â†00001 and<br>30013â†00001 bands of CO2, I: Collisions with N2. Journal of Quantitative Spectroscopy and Radiative<br>Transfer, 2012, 113, 976-990.       | 1.1      | 43           |
| 9  | 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.    | 1.1      | 41           |
| 10 | 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.   | 1.1      | 31           |
| 11 | Influence of line mixing on absorption by CH4 in atmospheric balloon-borne spectra near 3.3 μm.<br>Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 117-133.   | 1.1      | 26           |
| 12 | Effect of humidity on the absorption continua of CO2 and N2 near 4 <i>μ</i> m: Calculations,<br>comparisons with measurements, and consequences for atmospheric spectra. Journal of Chemical<br>Physics, 2018, 148, 054304.                      | 1.2      | 16           |
| 13 | Super- and sub-Lorentzian effects in the Ar-broadened line wings of HCl gas. Journal of Chemical Physics, 2017, 146, 194305.   | 1.2      | 15           |
| 14 | <i>Ab initio</i> calculations for the far infrared collision induced absorption by N2 gas. Journal of<br>Chemical Physics, 2014, 140, 054309.  | 1.2      | 13           |
| 15 | Decrease of the carbon tetrachloride (CCl4) loading above Jungfraujoch, based on high resolution<br>infrared solar spectra recorded between 1999 and 2011. Journal of Quantitative Spectroscopy and<br>Radiative Transfer, 2012, 113, 1322-1329. | 1.1      | 11           |
| 16 | Influence of line mixing on absorption by CO2Q branches in atmospheric balloon-borne spectra near<br>13 μm. Journal of Geophysical Research, 1997, 102, 12891-12899.   | 3.3      | 8            |
| 17 | The CO2–broadened H2O continuum in the 100–1500â€ <sup>–</sup> cm-1 region: Measurements, predictions and empirical model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 75-80.  | 1.1      | 7            |
| 18 | Comment on "Ortho-Para-Dependent Pressure Effects Observed in the Near Infrared Band of Acetylene<br>by Dual-Comb Spectroscopy― Physical Review Letters, 2017, 119, 069401.  | 2.9      | 5            |

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|----|--|-----|-----------|
| 19 | Note on the two possible formulations of the Hartmann-Tran line profile. Journal of Quantitative<br>Spectroscopy and Radiative Transfer, 2019, 233, 76-77.   | 1.1 | 4         |
| 20 | Toward measurements of the speed-dependence of line-mixing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107510.  | 1.1 | 4         |
| 21 | Molecular dynamics simulations of pressure-broadened symmetric-top gas spectra. Application to<br>CH3F-Ar and CH3F-He mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278,<br>108031. | 1.1 | 1         |
| 22 | Room temperature measurements of the collision-induced absorption by H2+CO2 mixtures near 2.4µm.<br>Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108161.                                | 1.1 | 1         |
| 23 | Direct calculations of the CH4+CO2 far infrared collision-induced absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108148.  | 1.1 | 0         |