

Jean-Michel Hartmann

List of Publications by Year in descending order

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23
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865
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations of pressure-broadened symmetric-top gas spectra. Application to CH ₃ F-Ar and CH ₃ F-He mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108031.	1.1	1
2	Room temperature measurements of the collision-induced absorption by H ₂ +CO ₂ mixtures near 2.4 μm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108161.	1.1	1
3	Direct calculations of the CH ₄ +CO ₂ far infrared collision-induced absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108148.	1.1	0
4	Toward measurements of the speed-dependence of line-mixing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107510.	1.1	4
5	Note on the two possible formulations of the Hartmann-Tran line profile. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 233, 76-77.	1.1	4
6	The CO ₂ "broadened H ₂ O continuum in the 100–1500 cm ⁻¹ region: Measurements, predictions and empirical model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 75-80.	1.1	7
7	Update of the HITRAN collision-induced absorption section. Icarus, 2019, 328, 160-175.	1.1	105
8	Far infrared measurements of absorptions by CH ₄ +CO ₂ and H ₂ +CO ₂ mixtures and implications for greenhouse warming on early Mars. Icarus, 2019, 321, 189-199.	1.1	31
9	Effect of humidity on the absorption continua of CO ₂ and N ₂ near 4 μm: Calculations, comparisons with measurements, and consequences for atmospheric spectra. Journal of Chemical Physics, 2018, 148, 054304.	1.2	16
10	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
11	Super- and sub-Lorentzian effects in the Ar-broadened line wings of HCl gas. Journal of Chemical Physics, 2017, 146, 194305.	1.2	15
12	Comment on "Ortho-Para-Dependent Pressure Effects Observed in the Near Infrared Band of Acetylene by Dual-Comb Spectroscopy". Physical Review Letters, 2017, 119, 069401.	2.9	5
13	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq1 1 0.784314 rgBT / Over 0,9 225		
14	Ab initio calculations for the far infrared collision induced absorption by N ₂ gas. Journal of Chemical Physics, 2014, 140, 054309.	1.2	13
15	Semiclassical calculations of half-widths and line shifts for transitions in the 30012 and 30013 bands of CO ₂ , I: Collisions with N ₂ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 976-990.	1.1	43
16	Semiclassical calculations of half-widths and line shifts for transitions in the 30012 and 30013 bands of CO ₂ II: Collisions with O ₂ and air. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 991-1003.	1.1	41
17	Decrease of the carbon tetrachloride (CCl ₄) loading above Jungfraujoch, based on high resolution infrared solar spectra recorded between 1999 and 2011. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1322-1329.	1.1	11
18	Semiclassical calculations of half-widths and line shifts for transitions in the 30012 and 30013 bands of CO ₂ . III: Self collisions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1536-1546.	1.1	45

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19	Collisional parameters of H ₂ O lines: effects of vibration. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 83, 119-147.	1.1	82
20	An intercomparison of measured pressure-broadening and pressure-shifting parameters of water vapor. Canadian Journal of Chemistry, 2004, 82, 1013-1027.	0.6	62
21	Influence of line mixing on absorption by CH ₄ in atmospheric balloon-borne spectra near 3.3 μ m. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 117-133.	1.1	26
22	Influence of line mixing on absorption by CO ₂ branches in atmospheric balloon-borne spectra near 13 μ m. Journal of Geophysical Research, 1997, 102, 12891-12899.	3.3	8
23	Infrared collision-induced absorption by N ₂ near 43 μ m for atmospheric applications: measurements and empirical modeling. Applied Optics, 1996, 35, 5911.	2.1	76