

Mary Ann H Smith

List of Publications by Year in descending order

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39
papers

10,031
citations

331670

21
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

6660
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudoline parameters to represent n-butane (n-C ₄ H ₁₀) cross-sections measured in the 7–15 μm region for the Titan atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 251, 107011.	2.3	6
2	Recommendation of a consensus value of the ozone absorption cross-section at 253.65 μm based on a literature review. <i>Metrologia</i> , 2019, 56, 034001.	1.2	22
3	Supplementary files for pressure-induced line shifts in the 1-0 and 2-0 bands of HF and in the 2-0 bands of H ₃₅ Cl and H ₃₇ Cl. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 227, 1-3.	2.3	0
4	Multispectrum analysis of air-broadened spectra in the $\hat{1}/2$ Q branch of 12CH ₄ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 409-429.	2.3	7
5	Assignment and modelling of 12CH ₄ spectra in the 5550–5695, 5718–5725 and 5792–5814 cm^{-1} regions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 219, 323-332.	2.3	13
6	FT-IR measurements of cold propene (C ₃ H ₆) cross-sections at temperatures between 150 and 299 K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 213, 119-132.	2.3	16
7	Positions, intensities and line shape parameters for the $\hat{1}/0$ bands of CO isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 218, 203-230.	2.3	14
8	Spectroscopic line parameters of 12 CH ₄ for atmospheric composition retrievals in the 4300–4500 cm^{-1} region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 106-117.	2.3	21
9	Measurements and modeling of long-path 12CH ₄ spectra in the 5300–5550 cm^{-1} region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 255-264.	2.3	20
10	Line parameters including temperature dependences of self- and air-broadened line shapes of 12C16O ₂ : 1.6–1.4 μm region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 117-144.	2.3	52
11	Line parameters including temperature dependences of air- and self-broadened line shapes of 12C16O ₂ : 2.06–1.4 μm region. <i>Journal of Molecular Spectroscopy</i> , 2016, 326, 21-47.	1.2	42
12	Spectral line parameters including line shapes in the $2\hat{1}/2$ Q branch of 12CH ₄ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 152-169.	2.3	25
13	Temperature dependences of N ₂ -broadening and shift coefficients in the $\hat{1}/26$ perpendicular band of 12CH ₃ D. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 163, 120-141.	2.3	11
14	Self- and air-broadened line shapes in the $2\hat{1}/2$ P and R branches of 12CH ₄ . <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 114-136.	1.2	37
15	Self- and air-broadened line shape parameters in the $\hat{1}/22+\hat{1}/23$ band of 12CH ₄ : 4500–4630 cm^{-1} . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 152, 149-165.	2.3	21
16	The $\hat{1}/24$, $\hat{1}/29$, $\hat{1}/210$ and $\hat{1}/26+\hat{1}/211$ bands of 12CH ₃ 13CH ₃ between 1345 and 1557 cm^{-1} . <i>Journal of Molecular Spectroscopy</i> , 2014, 302, 36-49.	1.2	5
17	A cryogenic Herriott cell vacuum-coupled to a Bruker IFS-125HR. <i>Journal of Molecular Spectroscopy</i> , 2014, 304, 12-24.	1.2	25
18	Air- and self-broadened half widths, pressure-induced shifts, and line mixing in the $\hat{1}/22$ band of 12CH ₄ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 133, 217-234.	2.3	19

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19	Line positions and intensities for the $\hat{1}/2_{12}$ band of $^{13}\text{C}^{12}\text{CH}_6$. Journal of Molecular Spectroscopy, 2014, 301, 28-38.	1.2	4
20	Methane line parameters in the HITRAN2012 database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 201-219.	2.3	121
21	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	2.3	2,810
22	FT-IR measurements of cold C_3H_8 cross sections at $7\hat{a}\text{€}15\hat{1}/4\text{m}$ for Titan atmosphere. Icarus, 2013, 226, 1499-1513.	2.5	36
23	Spectral line parameters including temperature dependences of air-broadening for the $2\hat{a}\dagger_0$ bands of $^{13}\text{C}^{16}\text{O}$ and $^{12}\text{C}^{18}\text{O}$ at $2.3\hat{1}/4\text{m}$. Journal of Molecular Spectroscopy, 2012, 276-277, 33-48.	1.2	20
24	Spectral line parameters including temperature dependences of self- and air-broadening in the $2\hat{a}\dagger_0$ band of CO at $2.3\hat{1}/4\text{m}$. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1013-1033.	2.3	59
25	The 2009 edition of the GEISA spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2395-2445.	2.3	306
26	A multispectrum analysis of the $\hat{1}/2_4$ band of $^{13}\text{CH}_4$: Widths, shifts, and line mixing coefficients. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 952-968.	2.3	15
27	Multispectrum analysis of $^{12}\text{CH}_4$ in the $\hat{1}/2_4$ spectral region: II. Self-broadened half widths, pressure-induced shifts, temperature dependences and line mixing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1152-1166.	2.3	29
28	Cryogenic absorption cells operating inside a Bruker IFS-125HR: First results for $^{13}\text{CH}_4$ at $7\hat{1}/4\text{m}$. Journal of Molecular Spectroscopy, 2010, 262, 122-134.	1.2	29
29	The HITRAN 2008 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 533-572.	2.3	3,129
30	Multispectrum analysis of $^{12}\text{CH}_4$ in the $\hat{1}/2_4$ band: I.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 639-653.	2.3	32
31	The HITRAN 2004 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 96, 139-204.	2.3	2,601
32	A multispectrum analysis of the $\hat{1}/2_2$ band of $\text{H}^{12}\text{C}^{14}\text{N}$: Part I. Intensities, broadening, and shift coefficients. Journal of Molecular Spectroscopy, 2005, 231, 66-84.	1.2	15
33	A multispectrum analysis of widths and shifts in the $2010\hat{a}\text{€}2260\text{cm}\hat{a}^{-1}$ region of $^{12}\text{C}^{16}\text{O}$ broadened by Helium at temperatures between 80 and 297K. Journal of Molecular Structure, 2005, 742, 99-110.	3.6	38
34	A multispectrum analysis of the $\hat{1}/2_2$ band of $\text{H}^{12}\text{C}^{14}\text{N}$: Part II. Theoretical calculations of self-broadening, self-induced shifts, and their temperature dependences. Journal of Molecular Spectroscopy, 2005, 231, 85-95.	1.2	11
35	SELF-BROADENING AND SELF-SHIFT COEFFICIENTS IN THE FUNDAMENTAL BAND OF $^{12}\text{C}^{16}\text{O}$. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 815-824.	2.3	24
36	A multispectrum nonlinear least squares fitting technique. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 53, 705-721.	2.3	263

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37	Temperature dependence of broadening and shifts of methane lines in the $\hat{1}\frac{1}{2}4$ band. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 1257-1272.	0.1	57
38	Spectrum of $^{13}\text{C}^{16}\text{O}_2$ at $2.8\ \hat{1}\frac{1}{4}\mu\text{m}$. Journal of Molecular Spectroscopy, 1982, 94, 351-362.	1.2	28
39	Measurements of pressure-induced shifts in the 1-0 and 2-0 bands of HF and in the 2-0 bands of H^{35}Cl and H^{37}Cl . Journal of Quantitative Spectroscopy and Radiative Transfer, 1978, 20, 35-47.	2.3	41