

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	The HITRAN 2008 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 533-572.	2.3	3,129
2	The HITRAN2012 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 4-50.	2.3	2,810
3	The HITRAN 2004 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 96, 139-204.	2.3	2,601
4	The 2009 edition of the GEISA spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2395-2445.	2.3	306
5	A multispectrum nonlinear least squares fitting technique. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1995, 53, 705-721.	2.3	263
6	Methane line parameters in the HITRAN2012 database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 201-219.	2.3	121
7	Spectral line parameters including temperature dependences of self- and air-broadening in the $2\hat{+}0$ band of CO at $2.3\hat{1}/4\mu\text{m}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1013-1033.	2.3	59
8	Temperature dependence of broadening and shifts of methane lines in the $\hat{1}/24$ band. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 1257-1272.	0.1	57
9	Line parameters including temperature dependences of self- and air-broadened line shapes of $12\text{C}16\text{O}_2$: $1.6\hat{1}/4\mu\text{m}$ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 117-144.	2.3	52
10	Line parameters including temperature dependences of air- and self-broadened line shapes of $12\text{C}16\text{O}_2$: $2.06\hat{1}/4\mu\text{m}$ region. <i>Journal of Molecular Spectroscopy</i> , 2016, 326, 21-47.	1.2	42
11	Measurements of pressure-induced shifts in the 1-0 and 2-0 bands of HF and in the 2-0 bands of $\text{H}35\text{Cl}$ and $\text{H}37\text{Cl}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1978, 20, 35-47.	2.3	41
12	A multispectrum analysis of widths and shifts in the $2010\hat{+}2260\text{cm}^{-1}$ region of $12\text{C}16\text{O}$ broadened by Helium at temperatures between 80 and 297K. <i>Journal of Molecular Structure</i> , 2005, 742, 99-110.	3.6	38
13	Self- and air-broadened line shapes in the $2\hat{1}/23$ P and R branches of 12CH_4 . <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 114-136.	1.2	37
14	FT-IR measurements of cold C_3H_8 cross sections at $7\hat{+}15\hat{1}/4\mu\text{m}$ for Titan atmosphere. <i>Icarus</i> , 2013, 226, 1499-1513.	2.5	36
15	Multispectrum analysis of 12CH_4 in the $\hat{1}/24$ band: I.. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 639-653.	2.3	32
16	Multispectrum analysis of 12CH_4 in the $\hat{1}/24$ spectral region: II. Self-broadened half widths, pressure-induced shifts, temperature dependences and line mixing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1152-1166.	2.3	29
17	Cryogenic absorption cells operating inside a Bruker IFS-125HR: First results for 13CH_4 at $7\hat{1}/4\mu\text{m}$. <i>Journal of Molecular Spectroscopy</i> , 2010, 262, 122-134.	1.2	29
18	Spectrum of $13\text{C}16\text{O}_2$ at $2.8\hat{1}/4\mu\text{m}$. <i>Journal of Molecular Spectroscopy</i> , 1982, 94, 351-362.	1.2	28

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19	A cryogenic Herriott cell vacuum-coupled to a Bruker IFS-125HR. <i>Journal of Molecular Spectroscopy</i> , 2014, 304, 12-24.	1.2	25
20	Spectral line parameters including line shapes in the $2\frac{1}{2}3$ Q branch of 12CH_4 . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 152-169.	2.3	25
21	SELF-BROADENING AND SELF-SHIFT COEFFICIENTS IN THE FUNDAMENTAL BAND OF $12\text{C}16\text{O}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 815-824.	2.3	24
22	Recommendation of a consensus value of the ozone absorption cross-section at 253.65 nm based on a literature review. <i>Metrologia</i> , 2019, 56, 034001.	1.2	22
23	Self- and air-broadened line shape parameters in the $\frac{1}{2}2+\frac{1}{2}3$ band of 12CH_4 : $4500\text{--}4630\text{ cm}^{-1}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 152, 149-165.	2.3	21
24	Spectroscopic line parameters of 12CH_4 for atmospheric composition retrievals in the $4300\text{--}4500\text{ cm}^{-1}$ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 106-117.	2.3	21
25	Spectral line parameters including temperature dependences of air-broadening for the $2\frac{1}{2}0$ bands of $13\text{C}16\text{O}$ and $12\text{C}18\text{O}$ at $2.3\frac{1}{4}\mu\text{m}$. <i>Journal of Molecular Spectroscopy</i> , 2012, 276-277, 33-48.	1.2	20
26	Measurements and modeling of long-path 12CH_4 spectra in the $5300\text{--}5550\text{ cm}^{-1}$ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 255-264.	2.3	20
27	Air- and self-broadened half widths, pressure-induced shifts, and line mixing in the $\frac{1}{2}2$ band of 12CH_4 . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 133, 217-234.	2.3	19
28	FT-IR measurements of cold propene (C_3H_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
29	A multispectrum analysis of the $\frac{1}{2}2$ band of $12\text{C}14\text{N}$: Part I. Intensities, broadening, and shift coefficients. <i>Journal of Molecular Spectroscopy</i> , 2005, 231, 66-84.	1.2	15
30	A multispectrum analysis of the $\frac{1}{2}4$ band of 13CH_4 : Widths, shifts, and line mixing coefficients. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 952-968.	2.3	15
31	Positions, intensities and line shape parameters for the $1\frac{1}{2}0$ bands of CO isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 218, 203-230.	2.3	14
32	Assignment and modelling of 12CH_4 spectra in the $5550\text{--}5695$, $5718\text{--}5725$ and $5792\text{--}5814\text{ cm}^{-1}$ regions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 219, 323-332.	2.3	13
33	A multispectrum analysis of the $\frac{1}{2}2$ band of $12\text{C}14\text{N}$: Part II. Theoretical calculations of self-broadening, self-induced shifts, and their temperature dependences. <i>Journal of Molecular Spectroscopy</i> , 2005, 231, 85-95.	1.2	11
34	Temperature dependences of N_2 -broadening and shift coefficients in the $\frac{1}{2}6$ perpendicular band of $12\text{CH}_3\text{D}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 163, 120-141.	2.3	11
35	Multispectrum analysis of air-broadened spectra in the $\frac{1}{2}3$ Q branch of 12CH_4 . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 409-429.	2.3	7
36	Pseudoline parameters to represent n-butane ($\text{n-C}_4\text{H}_{10}$) cross-sections measured in the $7\text{--}15\text{ }\mu\text{m}$ region for the Titan atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 251, 107011.	2.3	6

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37	The $\hat{1}/2_4$, $\hat{1}/2_9$, $\hat{1}/2_{10}$ and $\hat{1}/2_6 + \hat{1}/2_{11}$ bands of $^{12}\text{CH}_3^{13}\text{CH}_3$ between 1345 and 1557 cm^{-1} . Journal of Molecular Spectroscopy, 2014, 302, 36-49.	1.2	5
38	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
39	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 . Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 1-3.	2.3	0