

Jeremy J Harrison

List of Publications by Year in descending order

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59
papers

7,748
citations

394421

19
h-index

149698

56
g-index

59
all docs

59
docs citations

59
times ranked

6530
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 3-69.	2.3	2,840
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 HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107949.	2.3	770
4	The 2015 edition of the GEISA spectroscopic database. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 31-72.	1.2	311
5	The ACE-FTS atlas of the infrared solar spectrum. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 521-528.	2.3	119
6	Infrared absorption cross sections for ethane (C ₂ H ₆) in the 3 $\frac{1}{4}$ μ m region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 357-363.	2.3	86
7	Demonstration of a Mid-Infrared Cavity Enhanced Absorption Spectrometer for Breath Acetone Detection. <i>Analytical Chemistry</i> , 2013, 85, 846-850.	6.5	57
8	Infrared absorption cross sections for propane (C ₃ H ₈) in the 3 $\frac{1}{4}$ μ m region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1282-1288.	2.3	44
9	Growth in stratospheric chlorine from short-lived chemicals not controlled by the Montreal Protocol. <i>Geophysical Research Letters</i> , 2015, 42, 4573-4580.	4.0	42
10	Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 230, 172-221.	2.3	41
11	Observations of peroxyacetyl nitrate (PAN) in the upper troposphere by the Atmospheric Chemistry Experiment-Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5601-5613.	4.9	38
12	Recent Trends in Stratospheric Chlorine From Very Short-Lived Substances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2318-2335.	3.3	34
13	Spectroscopic requirements for ACCURATE, a microwave and infrared-laser occultation satellite mission. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2347-2354.	2.3	30
14	Infrared absorption cross sections for methanol. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2189-2196.	2.3	30
15	Einstein A coefficients and absolute line intensities for the E ² \rightarrow X ² + transition of CaH. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 67-74.	2.3	30
16	Mid-infrared absorption cross sections for acetone (propanone). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 457-464.	2.3	27
17	First remote sensing observations of trifluoromethane (HFC ₂₃) in the upper troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
18	Infrared absorption cross sections for acetone (propanone) in the 3 $\frac{1}{4}$ μ m region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 53-58.	2.3	21

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19	Infrared absorption cross sections for 1,1,1,2-tetrafluoroethane. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 151, 210-216.	2.3	20
20	Magnetic Circular Dichroism and Absorption Spectra of Phosphinidene in Noble-Gas Matrices. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1343-1347.	2.5	19
21	New and improved infrared absorption cross sections for dichlorodifluoromethane (CFC-12). <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3197-3207.	3.1	19
22	Measurement of the Magnetic Properties of FeH in Its $X^4\hat{1}^+$ and $F^4\hat{1}^+$ States from Sunspot Spectra. <i>Astrophysical Journal</i> , 2008, 686, 1426-1431.	4.5	17
23	Acetonitrile (CH ₃ CN) infrared absorption cross sections in the 3 $\hat{1}$ / ₄ m region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1961-1966.	2.3	17
24	ACE-FTS observations of acetonitrile in the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7405-7413.	4.9	17
25	On-line in-situ characterization of CO ₂ RESS processes for benzoic acid, cholesterol and aspirin. <i>Green Chemistry</i> , 2007, 9, 351.	9.0	15
26	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere–lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13541-13559.	4.9	15
27	The rotational spectrum of CoF in all three spin-orbit components of the X^1_3 state. <i>Journal of Chemical Physics</i> , 2007, 127, 194308.	3.0	14
28	The Zeeman Effect on Lines in the (1,0) Band of the $F^4\hat{1}^+ \leftarrow X^4\hat{1}^+$ Transition of the FeH Radical. <i>Astrophysical Journal</i> , 2008, 679, 854-861.	4.5	14
29	Infrared absorption cross sections for trifluoromethane. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 359-364.	2.3	14
30	New and improved infrared absorption cross sections for chlorodifluoromethane (HCFC-22). <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2593-2601.	3.1	14
31	Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10501-10519.	4.9	14
32	Improved Frequencies of Rotational Transitions of ⁵² CrH in the $\hat{1}^+_0$ + Ground State. <i>Astrophysical Journal</i> , 2006, 637, 1143-1147.	4.5	13
33	Mid- and long-wave infrared absorption cross sections for acetonitrile. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 221-225.	2.3	13
34	Satellite observations of stratospheric carbonyl fluoride. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11915-11933.	4.9	13
35	New and improved infra-red absorption cross sections and ACE-FTS retrievals of carbon tetrachloride (CCl ₄). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 139-149.	2.3	12
36	Greenhouse gas measurements over a 144 km open path in the Canary Islands. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2309-2319.	3.1	11

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37	New and improved infrared absorption cross sections for trichlorofluoromethane (CFC-11). Atmospheric Measurement Techniques, 2018, 11, 5827-5836.	3.1	11
38	A molecular-beam optical Stark study of lines in the (1,0) band of the $F^{1}7\hat{\cdot}24X\hat{\cdot}7\hat{\cdot}24$ transition of iron monohydride, FeH. Journal of Chemical Physics, 2006, 124, 184307.	3.0	10
39	An analysis of the rotational, fine and hyperfine effects in the (0,0) band of the $A7\hat{\cdot}X7\hat{\cdot}+$ transition of manganese monohydride, MnH. Journal of Molecular Spectroscopy, 2007, 241, 192-199.	1.2	10
40	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorine-Containing Very Short Lived Substances. Geophysical Research Letters, 2019, 46, 1032-1039.	4.0	10
41	The first remote-sensing measurements of HFC-32 in the Earth's atmosphere by the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107804.	2.3	10
42	Seasonal variations of acetone in the upper troposphere-lower stratosphere of the northern midlatitudes as observed by ACE-FTS. Journal of Molecular Spectroscopy, 2016, 323, 67-77.	1.2	9
43	New infrared absorption cross sections for the infrared limb sounding of sulfur hexafluoride (SF ₆). Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107202.	2.3	9
44	On-line and in situ optical detection of particles of organic molecules formed by rapid expansion of supercritical solutions (RESS) of CO ₂ . Physical Chemistry Chemical Physics, 2003, 5, 5467.	2.8	8
45	Fifteen Years of HFC-134a Satellite Observations: Comparisons With SLIMCAT Calculations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033208.	3.3	7
46	Magneto-Optical Investigations of Imidogen in Inert-Gas Matrices. Journal of Physical Chemistry A, 2004, 108, 2633-2637.	2.5	5
47	Long-term evolution and seasonal modulation of methanol above Jungfraujoch (46.5° N, 8.0° E): optimisation of the retrieval strategy, comparison with model simulations and independent observations. Atmospheric Measurement Techniques, 2014, 7, 3861-3872.	3.1	5
48	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754.	4.9	5
49	Retrieval and validation of carbon dioxide, methane and water vapor for the Canary Islands IR-laser occultation experiment. Atmospheric Measurement Techniques, 2015, 8, 3315-3336.	3.1	5
50	Impact of the June 2018 Saddleworth Moor wildfires on air quality in northern England. Environmental Research Communications, 2020, 2, 031001.	2.3	5
51	Infrared absorption cross sections for air-broadened 1,1-dichloro-1-fluoroethane (HCFC-141b). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106489.	2.3	4
52	REPRINT OF: Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106708.	2.3	3
53	Spectral Emissivity (SE) Measurement Uncertainties across 2.5-14 μ m Derived from a Round-Robin Study Made across International Laboratories. Remote Sensing, 2021, 13, 102.	4.0	3
54	MIPAS IMK/IAA carbon tetrachloride (CCl ₄) retrieval and first comparison with other instruments. Atmospheric Measurement Techniques, 2017, 10, 2727-2743.	3.1	2

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55	New infrared absorption cross sections for the infrared limb sounding of carbon tetrafluoride (CF ₄). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107432.	2.3	2
56	New infrared absorption cross sections of difluoromethane (HFC-32) for atmospheric remote sensing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107639.	2.3	2
57	Magnetic Circular Dichroism and Absorption Spectra of Phosphinidene in Noble-Gas Matrices. ChemInform, 2005, 36, no.	0.0	0
58	Magnetic Circular Dichroism and Absorption Spectra of Methylidyne in a Krypton Matrix. Journal of Physical Chemistry A, 2011, 115, 8643-8649.	2.5	0
59	Corrigendum to "Greenhouse gas measurements over a 144 km open path in the Canary Islands" published in Atmos. Meas. Tech., 5, 2309-2319, 2012. Atmospheric Measurement Techniques, 2012, 5, 2349-2349.	3.1	0