Robert J Hargreaves

List of Publications by Year
in descending order

27 papers	653 citations	759233 12 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	880 citing authors

#	Article	IF	Citations
1	Using HITRAN to model opacities for planetary atmospheres: test case of microwave spectra of NH3, SO2, and PH3. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2864-2875.	4.4	1
2	An Accurate, Extensive, and Practical Line List of Methane for the HITEMP Database. Astrophysical Journal, Supplement Series, 2020, 247, 55.	7.7	92
3	Referencing Sources of Molecular Spectroscopic Data in the Era of Data Science: Application to the HITRAN and AMBDAS Databases. Atoms, 2020, 8, 16.	1.6	6
4	Erratum to â€œInfrared absorption spectra of hot ammoniaâ€•[J Quant Spectrosc Radiat Transf 203 (2017) 410-416]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106870.	2.3	1
5	Spectroscopic line parameters of NO, NO2, and N2O for the HITEMP database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 35-53.	2.3	59
6	Analysis of the red and green optical absorption spectrum of gas phase ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 209, 224-231.	2.3	9
7	Infrared absorption cross sections of propane broadened by hydrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 141-144.	2.3	10
8	Infrared absorption spectra of hot ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 410-416.	2.3	11
9	Temperature-dependent high resolution absorption cross sections of propane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 219-224.	2.3	19
10	High resolution absorption cross sections for propylene in the 3Âµm region at high temperatures. Molecular Astrophysics, 2016, 3-4, 16-20.	1.6	7
11	High-resolution absorption cross sections of C2H6 at elevated temperatures. Molecular Astrophysics, 2015, 1, 20-25.	1.6	14
12	EMPIRICAL LINE LISTS AND ABSORPTION CROSS SECTIONS FOR METHANE AT HIGH TEMPERATURES. Astrophysical Journal, 2015, 813, 12.	4.5	50
13	Relative drifts and biases between six ozone limb satellite measurements from the last decade. Atmospheric Measurement Techniques, 2015, 8, 4369-4381.	3.1	13
14	Relative high-resolution absorption cross sections of C2H6 at low temperatures. Journal of Molecular Spectroscopy, 2015, 315, 102-106.	1.2	8
15	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
16	Small carbon chains in circumstellar envelopes. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3721-3728.	4.4	6
17	Harmonized dataset of ozone profiles from satellite limb and occultation measurements. Earth System Science Data, 2013, 5, 349-363.	9.9	52
18	Corrigendum to "Greenhouse gas measurements over a 144 km open path in the Canary Islands" published in Atmos. Meas. Tech., 5, 2309â€“2319, 2012. Atmospheric Measurement Techniques, 2012, 5, 2349-2349.	3.1	0

#	Article	IF	Citations
19	Greenhouse gas measurements over a 144 km open path in the Canary Islands. Atmospheric Measurement Techniques, 2012, 5, 2309-2319.	3.1	11
20	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
21	HOT METHANE LINE LISTS FOR EXOPLANET AND BROWN DWARF ATMOSPHERES. Astrophysical Journal, 2012, 757, 46.	4.5	58
22	Ammonia line lists from 1650 to 4000 cmâˆ’1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 670-679.	2.3	24
23	HOT NH₃SPECTRA FOR ASTROPHYSICAL APPLICATIONS. Astrophysical Journal, 2011, 735, 111.	4.5	32
24	Analysis of high temperature ammonia spectra from 780 to 2100cmâˆ’1. Journal of Molecular Spectroscopy, 2011, 269, 104-108.	1.2	19
25	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
26	Fourier-transform infrared emission spectroscopy of BO. Journal of Molecular Spectroscopy, 2010, 263, 123-125.	1.2	2
27	HIGH-RESOLUTION 1.6 Î¼m SPECTRA OF FeH IN M AND L DWARFS[,]. Astronomical Journal, 2010, 140, 919-924.	4.7	36