

Robert J Hargreaves

List of Publications by Year in descending order

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Version: 2024-02-01

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	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
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	Spectroscopic line parameters of NO, NO ₂ , and N ₂ O for the HITEMP database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 35-53.	2.3	59
4	HOT METHANE LINE LISTS FOR EXOPLANET AND BROWN DWARF ATMOSPHERES. Astrophysical Journal, 2012, 757, 46.	4.5	58
5	Harmonized dataset of ozone profiles from satellite limb and occultation measurements. Earth System Science Data, 2013, 5, 349-363.	9.9	52
6	EMPIRICAL LINE LISTS AND ABSORPTION CROSS SECTIONS FOR METHANE AT HIGH TEMPERATURES. Astrophysical Journal, 2015, 813, 12.	4.5	50
7	HIGH-RESOLUTION 1.6 μ m SPECTRA OF FeH IN M AND L DWARFS. Astronomical Journal, 2010, 140, 919-924.	4.7	36
8	HOT NH ₃ SPECTRA FOR ASTROPHYSICAL APPLICATIONS. Astrophysical Journal, 2011, 735, 111.	4.5	32
9	Ammonia line lists from 1650 to 4000 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 670-679.	2.3	24
10	Analysis of high temperature ammonia spectra from 780 to 2100cm ⁻¹ . Journal of Molecular Spectroscopy, 2011, 269, 104-108.	1.2	19
11	Temperature-dependent high resolution absorption cross sections of propane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 219-224.	2.3	19
12	High-resolution absorption cross sections of C ₂ H ₆ at elevated temperatures. Molecular Astrophysics, 2015, 1, 20-25.	1.6	14
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	Greenhouse gas measurements over a 144 km open path in the Canary Islands. Atmospheric Measurement Techniques, 2012, 5, 2309-2319.	3.1	11
15	Infrared absorption spectra of hot ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 410-416.	2.3	11
16	Infrared absorption cross sections of propane broadened by hydrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 141-144.	2.3	10
17	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
18	Relative high-resolution absorption cross sections of C ₂ H ₆ at low temperatures. Journal of Molecular Spectroscopy, 2015, 315, 102-106.	1.2	8

#	ARTICLE	IF	CITATIONS
19	High resolution absorption cross sections for propylene in the 3 μ m region at high temperatures. <i>Molecular Astrophysics</i> , 2016, 3-4, 16-20.	1.6	7
20	Small carbon chains in circumstellar envelopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3721-3728.	4.4	6
21	Referencing Sources of Molecular Spectroscopic Data in the Era of Data Science: Application to the HITRAN and AMBDAS Databases. <i>Atoms</i> , 2020, 8, 16.	1.6	6
22	The science of EChO. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 359-370.	0.0	5
23	Retrieval and validation of carbon dioxide, methane and water vapor for the Canary Islands IR-laser occultation experiment. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3315-3336.	3.1	5
24	Fourier-transform infrared emission spectroscopy of BO. <i>Journal of Molecular Spectroscopy</i> , 2010, 263, 123-125.	1.2	2
25	Erratum to "Infrared absorption spectra of hot ammonia" [<i>J Quant Spectrosc Radiat Transf</i> 203 (2017) 410-416]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 245, 106870.	2.3	1
26	Using HITRAN to model opacities for planetary atmospheres: test case of microwave spectra of NH ₃ , SO ₂ , and PH ₃ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2864-2875.	4.4	1
27	Corrigendum to "Greenhouse gas measurements over a 144 km open path in the Canary Islands" published in <i>Atmos. Meas. Tech.</i> , 5, 2309-2319, 2012. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2349-2349.	3.1	0