# Jeremy J Harrison

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/253741/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949. | 2.3 | 770 |
| 2 | New infrared absorption cross sections for the infrared limb sounding of carbon tetrafluoride (CF4). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107432. | 2.3 | 2 |
| 3 | Fifteen Years of HFCâ€134a Satellite Observations: Comparisons With SLIMCAT Calculations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033208. | 3.3 | 7 |
| 4 | 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 |
| 5 | 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 |
| 6 | Spectral Emissivity (SE) Measurement Uncertainties across 2.5â€“14 Î¼m Derived from a Round-Robin Study Made across International Laboratories. Remote Sensing, 2021, 13, 102. | 4.0 | 3 |
| 7 | New infrared absorption cross sections for the infrared limb sounding of sulfur hexafluoride (SF6). Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107202. | 2.3 | 9 |
| 8 | Impact of the June 2018 Saddleworth Moor wildfires on air quality in northern England. Environmental Research Communications, 2020, 2, 031001. | 2.3 | 5 |
| 9 | 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 |
| 10 | Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335. | 3.3 | 34 |
| 11 | Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 172-221. | 2.3 | 41 |
| 12 | Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorineâ€Containing Very Short Lived Substances. Geophysical Research Letters, 2019, 46, 1032-1039. | 4.0 | 10 |
| 13 | 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 |
| 14 | New and improved infrared absorption cross sections for trichlorofluoromethane (CFC-11). Atmospheric Measurement Techniques, 2018, 11, 5827-5836. | 3.1 | 11 |
| 15 | New and improved infra-red absorption cross sections and ACE-FTS retrievals of carbon tetrachloride (CCl4). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 139-149. | 2.3 | 12 |
| 16 | The HITRAN2016 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 3-69. | 2.3 | 2,840 |
| 17 | MIPAS IMK/IAA carbon tetrachloride (CCl<sub>4</sub>) retrieval and first comparison with other instruments. Atmospheric Measurement Techniques, 2017, 10, 2727-2743. | 3.1 | 2 |
| 18 | New and improved infrared absorption cross sections for chlorodifluoromethane (HCFC-22). Atmospheric Measurement Techniques, 2016, 9, 2593-2601. | 3.1 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The 2015 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2016, 327, 31-72. | 1.2 | 311 |
| 20 | Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphereâ€“lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 13541-13559. | 4.9 | 15 |
| 21 | Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. Atmospheric Chemistry and Physics, 2016, 16, 10501-10519. | 4.9 | 14 |
| 22 | Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754. | 4.9 | 5 |
| 23 | Seasonal variations of acetone in the upper troposphereâ€“lower stratosphere of the northern midlatitudes as observed by ACE-FTS. Journal of Molecular Spectroscopy, 2016, 323, 67-77. | 1.2 | 9 |
| 24 | Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580. | 4.0 | 42 |
| 25 | New and improved infrared absorption cross sections for dichlorodifluoromethane (CFC-12). Atmospheric Measurement Techniques, 2015, 8, 3197-3207. | 3.1 | 19 |
| 26 | Infrared absorption cross sections for 1,1,1,2-tetrafluoroethane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 210-216. | 2.3 | 20 |
| 27 | 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 |
| 28 | Long-term evolution and seasonal modulation of methanol above Jungfraujoch (46.5Â° N, 8.0Â° E): optimisation of the retrieval strategy, comparison with model simulations and independent observations. Atmospheric Measurement Techniques, 2014, 7, 3861-3872. | 3.1 | 5 |
| 29 | Satellite observations of stratospheric carbonyl fluoride. Atmospheric Chemistry and Physics, 2014, 14, 11915-11933. | 4.9 | 13 |
| 30 | Infrared absorption cross sections for trifluoromethane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 359-364. | 2.3 | 14 |
| 31 | Demonstration of a Mid-Infrared Cavity Enhanced Absorption Spectrometer for Breath Acetone Detection. Analytical Chemistry, 2013, 85, 846-850. | 6.5 | 57 |
| 32 | The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50. | 2.3 | 2,810 |
| 33 | Observations of peroxyacetyl nitrate (PAN) in the upper troposphere by the Atmospheric Chemistry Experiment-Fourier Transform Spectrometer (ACE-FTS). Atmospheric Chemistry and Physics, 2013, 13, 5601-5613. | 4.9 | 38 |
| 34 | ACE-FTS observations of acetonitrile in the lower stratosphere. Atmospheric Chemistry and Physics, 2013, 13, 7405-7413. | 4.9 | 17 |
| 35 | 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 |
| 36 | Greenhouse gas measurements over a 144 km open path in the Canary Islands. Atmospheric Measurement Techniques, 2012, 5, 2309-2319. | 3.1 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Infrared absorption cross sections for methanol. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2189-2196. | 2.3 | 30 |
| 38 | First remote sensing observations of trifluoromethane (HFCâ€23) in the upper troposphere and lower stratosphere. Journal of Geophysical Research, 2012, 117, . | 3.3 | 22 |
| 39 | Einstein A coefficients and absolute line intensities for the E2Îâ€“X2Î£+ transition of CaH. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 67-74. | 2.3 | 30 |
| 40 | Mid- and long-wave infrared absorption cross sections for acetonitrile. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 221-225. | 2.3 | 13 |
| 41 | Magnetic Circular Dichroism and Absorption Spectra of Methylidyne in a Krypton Matrix. Journal of Physical Chemistry A, 2011, 115, 8643-8649. | 2.5 | 0 |
| 42 | Spectroscopic requirements for ACCURATE, a microwave and infrared-laser occultation satellite mission. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2347-2354. | 2.3 | 30 |
| 43 | Infrared absorption cross sections for acetone (propanone) in the 3Î¼m region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 53-58. | 2.3 | 21 |
| 44 | Mid-infrared absorption cross sections for acetone (propanone). Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 457-464. | 2.3 | 27 |
| 45 | Acetonitrile (CH3CN) infrared absorption cross sections in the 3Î¼m region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1961-1966. | 2.3 | 17 |
| 46 | Infrared absorption cross sections for ethane (C2H6) in the 3Î¼m region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 357-363. | 2.3 | 86 |
| 47 | The ACE-FTS atlas of the infrared solar spectrum. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 521-528. | 2.3 | 119 |
| 48 | Infrared absorption cross sections for propane (C3H8) in the 3Î¼m region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1282-1288. | 2.3 | 44 |
| 49 | Measurement of the Magnetic Properties of FeH in ItsX<sup>4</sup>Î" andF<sup>4</sup>Î" States from Sunspot Spectra. Astrophysical Journal, 2008, 686, 1426-1431. | 4.5 | 17 |
| 50 | The Zeeman Effect on Lines in the (1,0) Band of theF4Î"â€"X4Î" Transition of the FeH Radical. Astrophysical Journal, 2008, 679, 854-861. | 4.5 | 14 |
| 51 | The rotational spectrum of CoF in all three spin-orbit components of the XÎ¦i3 state. Journal of Chemical Physics, 2007, 127, 194308. | 3.0 | 14 |
| 52 | On-line in-situ characterization of CO2 RESS processes for benzoic acid, cholesterol and aspirin. Green Chemistry, 2007, 9, 351. | 9.0 | 15 |
| 53 | An analysis of the rotational, fine and hyperfine effects in the (0,0) band of the A7Îâ€“X7Î£+ transition of manganese monohydride, MnH. Journal of Molecular Spectroscopy, 2007, 241, 192-199. | 1.2 | 10 |
| 54 | Improved Frequencies of Rotational Transitions of52CrH in the6Î£+Ground State. Astrophysical Journal, 2006, 637, 1143-1147. | 4.5 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A molecular-beam optical Stark study of lines in the (1,0) band of the FÎ”7âˆ•24-XÎ”7âˆ•24 transition of iron monohydride, FeH. Journal of Chemical Physics, 2006, 124, 184307. | 3.0 | 10 |
| 56 | Magnetic Circular Dichroism and Absorption Spectra of Phosphinidene in Noble-Gas Matrices. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 57 | Magnetic Circular Dichroism and Absorption Spectra of Phosphinidene in Noble-Gas Matrices. Journal of Physical Chemistry A, 2005, 109, 1343-1347. | 2.5 | 19 |
| 58 | Magneto-Optical Investigations of Imidogen in Inert-Gas Matrices. Journal of Physical Chemistry A, 2004, 108, 2633-2637. | 2.5 | 5 |
| 59 | On-line and in situ optical detection of particles of organic molecules formed by rapid expansion of supercritical solutions (RESS) of CO2. Physical Chemistry Chemical Physics, 2003, 5, 5467. | 2.8 | 8 |