Didier Mondelain

List of Publications by Year
in descending order

31 papers	1,345 citations	567281 15 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	521 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	Sub-MHz accuracy measurement of the S(2) 2â€“0 transition frequency of D2 by Comb-Assisted Cavity Ring Down spectroscopy. Journal of Molecular Spectroscopy, 2016, 326, 5-8.	1.2	48
3	The water vapour self-continuum by CRDS at room temperature in the 1.6Âµm transparency window. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 381-391.	2.3	47
4	The water vapour continuum in near-infrared windows â€“ Current understanding and prospects for its inclusion in spectroscopic databases. Journal of Molecular Spectroscopy, 2016, 327, 193-208.	1.2	42
5	Comb-assisted cavity ring down spectroscopy of 17O enriched water between 7443 and 7921 cmâˆ’1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 206-212.	2.3	37
6	The water vapour self-continuum absorption in the infrared atmospheric windows: new laser measurements near 3.3 and 2.0â€¯Âµm. Atmospheric Measurement Techniques, 2018, 11, 2159-2171.	3.1	37
7	Accurate laboratory determination of the nearâ€infrared water vapor selfâ€continuum: A test of the MT_CKD model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,180.	3.3	30
8	High sensitivity spectroscopy of the O2 band at 1.27 Âµm: (I) pure O2 line parameters above 7920 cmâˆ’1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106653.	2.3	30
9	The self- and foreign-absorption continua of water vapor by cavity ring-down spectroscopy near 2.35 Î¼m. Physical Chemistry Chemical Physics, 2015, 17, 17762-17770.	2.8	27
10	A spectroscopic database for water vapor between 5850 and 8340 cmâˆ’1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 179, 198-216.	2.3	26
11	Water vapor self-continuum absorption measurements in the 4.0 and 2.1â€¯Âµm transparency windows. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 171-179.	2.3	26
12	Temperature dependence of the water vapor selfâ€continuum by cavity ringâ€down spectroscopy in the 1.6â€‰Âµm transparency window. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5625-5639.	3.3	25
13	Accurate measurements and temperature dependence of the water vapor self-continuum absorption in the 2.1 <i>Î¼</i>m atmospheric window. Journal of Chemical Physics, 2015, 143, 134304.	3.0	24
14	Accurate absorption spectroscopy of water vapor near 1.64â€¯Âµm in support of the MEthane Remote LIdar missioN (MERLIN). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 332-342.	2.3	18
15	High sensitivity CRDS of CO 2 in the 1.74â€¯Âµm transparency window. A validation test for the spectroscopic databases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 95-103.	2.3	17
16	High pressure Cavity Ring Down Spectroscopy: Application to the absorption continuum of CO2 near 1.7Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 97-104.	2.3	15
17	The CO2 absorption spectrum in the 2.3 Âµm transparency window by high sensitivity CRDS: (II) Self-absorption continuum. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 38-43.	2.3	15
18	The water vapour self- and foreign-continua in the 1.6ÂÂµm and 2.3ÂÂµm windows by CRDS at room temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 230-238.	2.3	15

#	Article	IF	Citations
19	Accurate Laboratory Measurement of the O₂ Collisionâ€Induced Absorption Band Near 1.27ÂÎ¼m. Journal of Geophysical Research D: Atmospheres, 2019, 124, 414-423.	3.3	14
20	Transition frequencies in the (2-0) band of D2 with MHz accuracy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107020.	2.3	13
21	Analysis and theoretical modeling of the 18O enriched carbon dioxide spectrum by CRDS near 1.74â€¯Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 73-85.	2.3	12
22	High sensitivity spectroscopy of the O2 band at 1.27ÂÂµm: (II) air-broadened line profile parameters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106673.	2.3	11
23	The CO2 absorption continuum by high pressure CRDS in the 1.74 Âµm window. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 530-537.	2.3	10
24	The water vapor foreign-continuum in the 1.6ÂÂµm window by CRDS at room temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106923.	2.3	6
25	Temperature Dependence of the Collisionâ€Induced Absorption Band of O₂ Near 1.27ÂÂµm. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034860.	3.3	6
26	Measurements of the water vapor continuum absorption by OFCEAS at 3.50 Âµm and 2.32 Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108004.	2.3	6
27	Characterization of the H2O+CO2 continuum within the infrared transparency windows. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 282, 108119.	2.3	5
28	The binary absorption coefficients for H2Â+ÂCO2 mixtures in the 2.12â€“2.35ÂÂµm spectral region determined by CRDS and by semi-empirical calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107454.	2.3	4
29	Validation of spectroscopic data in the 1.27 Âµm spectral region by comparisons with ground-based atmospheric measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 261, 107495.	2.3	4
30	CRDS measurements of air-broadened lines in the 1.6 Âµm band of 12CO2: Line shape parameters with their temperature dependence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108267.	2.3	4
31	Simultaneous collision-induced transitions in H2O+CO2 gas mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 285, 108162.	2.3	1