Christof Janssen

List of Publications by Year
in descending order

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30 papers	1,081 citations	516710 16 h-index	434195 31 g-index
39 all docs	39 docs citations	39 times ranked	1068 citing authors

#	Article	IF	Citations
1	Isotope Effects in the Chemistry of Atmospheric Trace Compounds. Chemical Reviews, 2003, 103, 5125-5162.	47.7	186
2	Kinetic origin of the ozone isotope effect: a critical analysis of enrichments and rate coefficients. Physical Chemistry Chemical Physics, 2001, 3, 4718-4721.	2.8	150
3	Relative formation rates of 50O3 and 52O3 in 16Oâ€“18O mixtures. Journal of Chemical Physics, 1999, 111, 7179-7182.	3.0	97
4	Isotope dependence of the O+O2 exchange reaction: Experiment and theory. Journal of Chemical Physics, 2003, 119, 4700-4712.	3.0	71
5	Ozone spectroscopy in the electronic ground state: High-resolution spectra analyses and update of line parameters since 2003. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 172-190.	2.3	63
6	Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. Journal of Molecular Spectroscopy, 2016, 327, 105-121.	1.2	57
7	Stratospheric ozone isotope fractionations derived from collected samples. Journal of Geophysical Research, 2007, 112, .	3.3	51
8	Intramolecular isotope distribution in heavy ozone (16O18O16O and16O16O18O). Journal of Geophysical Research, 2005, 110, .	3.3	42
9	Oxygen Isotope Processes and Transfer Reactions. Space Science Reviews, 2003, 106, 265-279.	8.1	39
10	Ab initio predictions and laboratory validation for consistent ozone intensities in the MW, 10 and 5 Î¼m ranges. Journal of Chemical Physics, 2019, 150, 184303.	3.0	37
11	XCO₂ in an emission hot-spot region: the COCCON Paris campaign 2015. Atmospheric Chemistry and Physics, 2019, 19, 3271-3285.	4.9	35
12	Absolute measurements of intensities, positions and self-broadening coefficients of R branch transitions in the Î½2 band of ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1950-1960.	2.3	31
13	Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations. Atmospheric Chemistry and Physics, 2016, 16, 10911-10925.	4.9	28
14	Laser spectroscopic study of ozone in the 100â†000 band for the SWIFT instrument. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 961-972.	2.3	27
15	Recommendation of a consensus value of the ozone absorption cross-section at 253.65â€‰nm based on a literature review. Metrologia, 2019, 56, 034001.	1.2	22
16	Preparation and accurate measurement of pure ozone. Review of Scientific Instruments, 2011, 82, 034102.	1.3	18
17	Optical clumped isotope thermometry of carbon dioxide. Scientific Reports, 2019, 9, 4765.	3.3	17
18	Laser Absorption Spectroscopy of Rare and Doubly Substituted Carbon Dioxide Isotopologues. Analytical Chemistry, 2019, 91, 15491-15499.	6.5	16

#	Article	IF	Citations
19	Line parameter study of ozone at 5 and 10 Î¼m using atmospheric FTIR spectra from the ground: A spectroscopic database and wavelength region comparison. Journal of Molecular Spectroscopy, 2016, 326, 48-59.	1.2	14
20	H₂ clumped isotope measurements at natural isotopic abundances. Rapid Communications in Mass Spectrometry, 2019, 33, 239-251.	1.5	12
21	On the gas dependence of thermal transpiration and a critical appraisal of correction methods for capacitive diaphragm gauges. Vacuum, 2014, 104, 77-87.	3.5	10
22	Experimental study on isotope fractionation effects in visible photolysis of O₃ and in the Oâ€‰+â€‰O₃ odd oxygen sink reaction. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4398-4416.	3.3	8
23	A new photometric ozone reference in the Huggins bands: the absolute ozone absorption cross section at the 325â€¯nm HeCd laser wavelength. Atmospheric Measurement Techniques, 2018, 11, 1707-1723.	3.1	8
24	Wavelength-dependent isotope fractionation in visible light O₃ photolysis and atmospheric implications. Geophysical Research Letters, 2015, 42, 8711-8718.	4.0	7
25	Comment on â€œLow-pressure dependency of the isotopic enrichment in ozone: Stratospheric implicationsâ€• by S. K. Bhattacharya et al.. Journal of Geophysical Research, 2003, 108, .	3.3	5
26	Retrievals of heavy ozone with MIPAS. Atmospheric Measurement Techniques, 2016, 9, 6069-6079.	3.1	5
27	Multi-spectral investigation of ozone: Part I. Setup & uncertainty budget. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108051.	2.3	5
28	Multi-spectral investigation of ozone: Part II. Line intensity measurements at one percent accuracy around 5 Âµm and 10 Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108050.	2.3	5
29	Nonlinear Frequency-Sweep Correction of Tunable Electromagnetic Sources. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1487-1491.	3.0	4
30	Direct simultaneous spectroscopic measurements of rare and doubly-substituted CO₂ isotopologues using interband cascade lasers. , 2018, , .		0