Fabien Gibert

List of Publications by Year
in descending order

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27	722	567281 15	526287 27
papers	citations	h-index	g-index

28	28	28	678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Side-line tunable laser transmitter for differential absorption lidar measurements of CO_2: design and application to atmospheric measurements. Applied Optics, 2008, 47, 944.	2.1	107
2	Two-micrometer heterodyne differential absorption lidar measurements of the atmospheric CO_2 mixing ratio in the boundary layer. Applied Optics, 2006, 45, 4448.	2.1	97
3	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	4.0	88
4	2-Î¼m high-power multiple-frequency single-mode Q-switched Ho:YLF laser for DIAL application. Applied Physics B: Lasers and Optics, 2014, 116, 967-976.	2.2	66
5	Vertical 2-Î¼m Heterodyne Differential Absorption Lidar Measurements of Mean CO2 Mixing Ratio in the Troposphere. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1477-1497.	1.3	50
6	Complementary study of differential absorption lidar optimization in direct and heterodyne detections. Applied Optics, 2006, 45, 4898.	2.1	36
7	Retrieval of average CO2fluxes by combining in situ CO2measurements and backscatter lidar information. Journal of Geophysical Research, 2007, 112, .	3.3	33
8	A complete study of CO2 line parameters around 4845cmâ¯1 for Lidar applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 426-434.	2.3	31
9	Laser diode absorption spectroscopy for accurate CO_2 line parameters at 2 Î¼m: consequences for space-based DIAL measurements and potential biases. Applied Optics, 2009, 48, 5475.	2.1	27
10	2-Î¼m double-pulse single-frequency Tm:fiber laser pumped Ho:YLF laser for a space-borne CO₂lidar. Applied Optics, 2018, 57, 10370.	1.8	25
11	Error Budget of the MEthane Remote LIdar missioN and Its Impact on the Uncertainties of the Global Methane Budget. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,766.	3.3	23
12	Evaluation of a HgCdTe e-APD based detector for 2â€‰â€‰Î¼m CO_2 DIAL application. Applied Optics, 2017, 56, 7577.	1.8	22
13	Tunable diode laser measurement of pressure-induced shift coefficients of CO2 around 2.05 Î¼m for Lidar application. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1411-1419.	2.3	21
14	Internal gravity waves convectively forced in the atmospheric residual layer during the morning transition. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1610-1624.	2.7	18
15	On the Correlation between Convective Plume Updrafts and Downdrafts, Lidar Reflectivity and Depolarization Ratio. Boundary-Layer Meteorology, 2007, 125, 553-573.	2.3	17
16	Can CO2 Turbulent Flux Be Measured by Lidar? A Preliminary Study. Journal of Atmospheric and Oceanic Technology, 2011, 28, 365-377.	1.3	16
17	Inter-comparison of 2Î¼m Heterodyne Differential Absorption Lidar, Laser Diode Spectrometer, LICOR NDIR analyzer and flasks measurements of near-ground atmospheric CO2 mixing ratio. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 71, 1914-1921.	3.9	9
18	Averaging bias correction for the future space-borne methane IPDA lidar mission MERLIN. Atmospheric Measurement Techniques, 2018, 11, 5865-5884.	3.1	9

#	Article	IF	Citations
19	A Case Study of CO2, CO and Particles Content Evolution in the Suburban Atmospheric Boundary Layer Using a 2-Î¼m Doppler DIAL, a 1-Î¼m Backscatter Lidar and an Array of In-situ Sensors. Boundary-Layer Meteorology, 2008, 128, 381-401.	2.3	6
20	An a Posteriori Method Based on Photo-Acoustic Cell Information to Correct for Lidar Transmitter Spectral Shift: Application to Atmospheric CO₂ Differential Absorption Lidar Measurements. Applied Spectroscopy, 2007, 61, 1068-1075.	2.2	4
21	Performances of a HGCDTE APD based direct detection lidar at 2 Î¼m. Application to dial measurements. EPJ Web of Conferences, 2018, 176, 01001.	0.3	4
22	Optical Energy Variability Induced by Speckle: The Cases of MERLIN and CHARM-F IPDA Lidar. Atmosphere, 2019, 10, 540.	2.3	4
23	2-Î¼m Coherent DIAL for CO2, H2O and Wind Field Profiling in the Lower Atmosphere: Instrumentation and Results. EPJ Web of Conferences, 2016, 119, 03005.	0.3	2
24	Numerical Simulations of a 2.05 Î¼m Q-switched Ho:YLF Laser for CO2IPDA Space Remote Sensing. EPJ Web of Conferences, 2016, 119, 05003.	0.3	1
25	Development and Validation of an End-to-End Simulator and Gas Concentration Retrieval Processor Applied to the MERLIN Lidar Mission. Remote Sensing, 2021, 13, 2679.	4.0	1
26	2-Î¼m pulsed Holmium laser for a future CO2/ H2O space lidar mission. , 2019, , .		1
27	Impact of Meteorological Uncertainties in the Methane Retrieval Ground Segment of the MERLIN Lidar Mission. Atmosphere, 2022, 13, 431.	2.3	1