

Andreas Fix

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,476
citations

304368

22
h-index

243296

44
g-index

94
all docs

94
docs citations

94
times ranked

2798
citing authors

#	ARTICLE	IF	CITATIONS
1	Depolarization ratio profiling at several wavelengths in pure Saharan dust during SAMUM 2006. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 165.	0.8	436
2	Aerosol classification by airborne high spectral resolution lidar observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2487-2505.	1.9	209
3	Airborne high spectral resolution lidar for measuring aerosol extinction and backscatter coefficients. <i>Applied Optics</i> , 2008, 47, 346.	2.1	142
4	ACRIDICONâ€“CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1885-1908.	1.7	124
5	Permafrost carbon emissions in a changing Arctic. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 55-67.	12.2	124
6	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 271-288.	1.7	107
7	The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1607-1637.	1.7	105
8	Evidence for inertia gravity waves forming polar stratospheric clouds over Scandinavia. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 30-1.	3.3	103
9	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , 2017, 9, 1052.	1.8	88
10	EUREC<sup>4</sup</sup>A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	3.7	88
11	CHARM-Fâ€“a new airborne integrated-path differential-absorption lidar for carbon dioxide and methane observations: measurement performance and quantification of strong point source emissions. <i>Applied Optics</i> , 2017, 56, 5182.	2.1	87
12	On the onset of bora and the formation of rotors and jumps near a mountain gap. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 21-46.	1.0	80
13	Spatial distribution and optical properties of Saharan dust observed by airborne high spectral resolution lidar during SAMUM 2006. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 131.	0.8	71
14	Low stratospheric water vapor measured by an airborne DIAL. <i>Journal of Geophysical Research</i> , 1999, 104, 31351-31359.	3.3	44
15	Optical parametric oscillators and amplifiers for airborne and spaceborne active remote sensing of CO ₂ and CH ₄ . <i>Proceedings of SPIE</i> , 2011, , .	0.8	44
16	Latent heat flux measurements over complex terrain by airborne water vapour and wind lidars. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 190-203.	1.0	42
17	Quantifying CH<sub>4</sub</sub> emissions from hard coal mines using mobile sun-viewing Fourier transform spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5217-5230.	1.2	38
18	Estimating CH<sub>4</sub</sub>, CO<sub>2</sub</sub> and CO emissions from coal mining and industrial activities in the Upper Silesian Coal Basin using an aircraft-based mass balance approach. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12675-12695.	1.9	36

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19	Upconversion-based lidar measurements of atmospheric CO ₂ . <i>Optics Express</i> , 2016, 24, 5152.	1.7	31
20	Crosslinking of progesterone receptor to DNA using tuneable nanosecond, picosecond and femtosecond UV laser pulses. <i>Nucleic Acids Research</i> , 1997, 25, 2478-2484.	6.5	30
21	Potential of airborne lidar measurements for cirrus cloud studies. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2745-2755.	1.2	29
22	How stratospheric are deep stratospheric intrusions? LUAMI ²⁰⁰⁸ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8791-8815.	1.9	29
23	Atmospheric CO ₂ Sensing with a Random Modulation Continuous Wave Integrated Path Differential Absorption Lidar. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 157-167.	1.9	24
24	Upconversion detector for range-resolved DIAL measurement of atmospheric CH ₄ . <i>Optics Express</i> , 2018, 26, 3850.	1.7	24
25	Error Budget of the MEthane Remote Lidar mission and Its Impact on the Uncertainties of the Global Methane Budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,766.	1.2	23
26	Airborne high spectral resolution lidar observation of pollution aerosol during EUCAARI-LONGREX. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2435-2444.	1.9	22
27	Analysis of a potential-vorticity streamer crossing the Alps during MAP IOP 15 on 6 November 1999. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 609-632.	1.0	18
28	Estimating Upper Silesian coal mine methane emissions from airborne in situ observations and dispersion modeling. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8791-8807.	1.9	18
29	Validation of MIPAS-ENVISAT H ₂ O operational data collected between July 2002 and March 2004. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5791-5811.	1.9	17
30	Potential of Spaceborne Lidar Measurements of Carbon Dioxide and Methane Emissions from Strong Point Sources. <i>Remote Sensing</i> , 2017, 9, 1137.	1.8	16
31	Quantification of CH ₄ coal mining emissions in Upper Silesia by passive airborne remote sensing observations with the Methane Airborne MAPper (MAMAP) instrument during the CO ₂ and Methane (CoMet) campaign. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17345-17371.	1.9	16
32	Influence of molecular scattering models on aerosol optical properties measured by high spectral resolution lidar. <i>Applied Optics</i> , 2009, 48, 5143.	2.1	15
33	In situ observations of greenhouse gases over Europe during the CoMet 1.0 campaign aboard the HALO aircraft. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1525-1544.	1.2	15
34	Development and application of an airborne differential absorption lidar for the simultaneous measurement of ozone and water vapor profiles in the tropopause region. <i>Applied Optics</i> , 2019, 58, 5892.	0.9	14
35	Hindcasting and forecasting of regional methane from coal mine emissions in the Upper Silesian Coal Basin using the online nested global regional chemistry climate model MECO(n) (MESSy v2.53). <i>Geoscientific Model Development</i> , 2020, 13, 1925-1943.	1.3	14
36	CoMet: an airborne mission to simultaneously measure CO ₂ and CH ₄ using lidar, passive remote sensing, and in-situ techniques. <i>EPJ Web of Conferences</i> , 2018, 176, 02003.	0.1	13

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37	Determination of the emission rates of CO ₂ point sources with airborne lidar. Atmospheric Measurement Techniques, 2021, 14, 2717-2736.	1.2	13
38	Injection-seeded optical parametric oscillator for airborne water vapour DIAL. Journal of Optics, 1998, 7, 837-852.	0.5	11
39	Investigations on the beam pointing stability of a pulsed optical parametric oscillator. Optics Express, 2013, 21, 10720.	1.7	9
40	Denitrification inside the stratospheric vortex in the winter of 1999â€“2000 by sedimentation of large nitric acid trihydrate particles. Journal of Geophysical Research, 2002, 107, AAC 11-1.	3.3	8
41	Energy calibration of integrated path differential absorption lidars. Applied Optics, 2018, 57, 7501.	0.9	8
42	Compact, passively Q-switched, all-solid-state master oscillator-power amplifier-optical parametric oscillator (MOPA-OPO) system pumped by a fiber-coupled diode laser generating high-brightness, tunable, ultraviolet radiation. Applied Optics, 2009, 48, 3839.	2.1	7
43	Detection and Analysis of Water Vapor Transport by Airborne Lidars. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1189-1193.	2.3	7
44	INNOSLAB-based single-frequency MOPA for airborne lidar detection of CO ₂ and methane. , 2014, , .		7
45	Fast-switching system for injection seeding of a high-power Ti:sapphire laser. Review of Scientific Instruments, 2009, 80, 073110.	0.6	6
46	Mixing at the extratropical tropopause as characterized by collocated airborne H ₂ O and O ₃ lidar observations. Atmospheric Chemistry and Physics, 2021, 21, 5217-5234.	1.9	6
47	Development and First Results of a new Near-IR Airborne Greenhouse Gas Lidar. , 2015, , .		4
48	Feasibility and performance study for a space-borne 1645nm OPO for French-German satellite mission MERLIN. , 2014, , .		3
49	Measurement characteristics of an airborne microwave temperature profiler (MTP). Atmospheric Measurement Techniques, 2021, 14, 1689-1713.	1.2	3
50	Tunable Light Sources for Lidar Applications. Research Topics in Aerospace, 2012, , 509-527.	0.6	3
51	Depolarization ratio profiling at several wavelengths in pure Saharan dust during SAMUM 2006. Tellus, Series B: Chemical and Physical Meteorology, 2009, 61, .	0.8	3
52	Investigations on frequency and energy references for a space-borne integrated path differential absorption lidar. , 2017, , .		3
53	Feasibility and performance study for a space-borne 1645 nm OPO for French-German satellite mission MERLIN. Proceedings of SPIE, 2014, , .	0.8	2
54	Airborne Differential Absorption and High Spectral Resolution Lidar Measurements for Cirrus Cloud Studies. EPJ Web of Conferences, 2016, 119, 11003.	0.1	2

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55	Challenges and Solutions for Frequency and Energy References for Spaceborne and Airborne Integrated Path Differential Absorption Lidars. EPJ Web of Conferences, 2016, 119, 06012.	0.1	2
56	On the benefit of airborne demonstrators for space borne lidar missions. , 2017, , .		2
57	Development and First Results of a new Near-IR Airborne Greenhouse Gas Lidar. , 2015, , .		2
58	<title>Injection-seeded optical parametric oscillator for airborne DIAL</title>. , 1997, , .		1
59	Water vapour and wind profiles from collocated airborne lidars during COPS 2007. Proceedings of SPIE, 2007, 6750, 207.	0.8	1
60	Airborne lidar observations of water vapor transport. , 2012, , .		1
61	OPO resonator length stabilisation for injection seeding using fibre coupled heterodyne detection. , 2008, , .		1
62	CH4 and CO2 IPDA Lidar Measurements During the Comet 2018 Airborne Field Campaign. EPJ Web of Conferences, 2020, 237, 03005.	0.1	1
63	<title>Design and performance of efficient narrowband and mode-locked optical parametric oscillators of BBO and KTP</title>. , 1993, , .		0
64	Spectral purity investigation of a KTP optical parametric oscillator. , 2006, , .		0
65	Airborne measurements of ground reflectance at 1.6 Î¼m. Proceedings of SPIE, 2008, , .	0.8	0
66	Performance of Charm-F â€” the airborne demonstrator for Merlin. EPJ Web of Conferences, 2018, 176, 01002.	0.1	0
67	Upconversion-based lidar measurements of atmospheric CO2. , 2016, , .		0
68	Upconversion Detector for Methane Atmospheric Sensor. , 2017, , .		0