Julia Marshall

List of Publications by Year
in descending order

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32 papers	1,967 citations	516561 16 h-index	454834 30 g-index
71 all docs	71 docs citations	71 times ranked	3732 citing authors

#	Article	IF	Citations
1	Global-scale atmosphere monitoring by in-service aircraft â€“ current achievements and future prospects of the European Research Infrastructure IAGOS. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28452.	0.8	118
2	The CO₂ record at the Amazon Tall Tower Observatory: A new opportunity to study processes on seasonal and interâ€annual scales. Global Change Biology, 2022, 28, 588-611.	4.2	8
3	Effects of point source emission heights in WRFâ€“STILT: a step towards exploiting nocturnal observations in models. Geoscientific Model Development, 2022, 15, 5391-5406.	1.3	8
4	In situ observations of greenhouse gases over Europe during the CoMet 1.0 campaign aboard the HALO aircraft. Atmospheric Measurement Techniques, 2021, 14, 1525-1544.	1.2	15
5	Using TROPOspheric Monitoring Instrument (TROPOMI) measurements and Weather Research and Forecasting (WRF) CO modelling to understand the contribution of meteorology and emissions to an extreme air pollution event in India. Atmospheric Chemistry and Physics, 2021, 21, 5393-5414.	1.9	10
6	The CO2 Human Emissions (CHE) Project: First Steps Towards a European Operational Capacity to Monitor Anthropogenic CO2 Emissions. Frontiers in Remote Sensing, 2021, 2, .	1.3	13
7	Quantification of CH₄ coal mining emissions in Upper Silesia by passive airborne remote sensing observations with the Methane Airborne MAPper (MAMAP) instrument during the CO₂ and Methane (CoMet) campaign. Atmospheric Chemistry and Physics, 2021, 21, 17345-17371.	1.9	16
8	Understanding nighttime methane signals at the Amazon Tall Tower Observatory (ATTO). Atmospheric Chemistry and Physics, 2020, 20, 6583-6606.	1.9	11
9	Toward an Operational Anthropogenic CO2 Emissions Monitoring and Verification Support Capacity. Bulletin of the American Meteorological Society, 2020, 101, E1439-E1451.	1.7	63
10	Short-term forecasting of regional biospheric CO₂ fluxes in Europe using a light-use-efficiency model (VPRM, MPI-BGC version 1.2). Geoscientific Model Development, 2020, 13, 4091-4106.	1.3	3
11	CH4 and CO2 IPDA Lidar Measurements During the Comet 2018 Airborne Field Campaign. EPJ Web of Conferences, 2020, 237, 03005.	0.1	1
12	Analysis of total column CO₂ and CH₄ measurements in Berlin with WRF-GHG. Atmospheric Chemistry and Physics, 2019, 19, 11279-11302.	1.9	30
13	Accounting for the vertical distribution of emissions in atmospheric CO₂ simulations. Atmospheric Chemistry and Physics, 2019, 19, 4541-4559.	1.9	37
14	Detectability of CO₂ emission plumes of cities and power plants with the Copernicus Anthropogenic CO₂ Monitoring (CO2M) mission. Atmospheric Measurement Techniques, 2019, 12, 6695-6719.	1.2	66
15	Multi-species inversion and IAGOS airborne data for a better constraint of continental-scale fluxes. Atmospheric Chemistry and Physics, 2018, 18, 9225-9241.	1.9	7
16	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.	1.2	23
17	Reviews and syntheses: Carbonyl sulfide as aÂmulti-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657.	1.3	98
18	Using NO2 Satellite Observations to Support Satellite-based CO2 Emission Estimates of Cities and Power Plants. , 2018, , .		0

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19	How Much CO2 Is Taken Up by the European Terrestrial Biosphere?. Bulletin of the American Meteorological Society, 2017, 98, 665-671.	1.7	33
20	The constraint of CO₂ measurements made onboard passenger aircraft on surfaceâ€“atmosphere fluxes: the impact of transport model errors in vertical mixing. Atmospheric Chemistry and Physics, 2017, 17, 5665-5675.	1.9	4
21	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	1.8	88
22	Extending methane profiles from aircraft into the stratosphere for satellite total column validation using the ECMWF C-IFS and TOMCAT/SLIMCAT 3-D model. Atmospheric Chemistry and Physics, 2017, 17, 6663-6678.	1.9	6
23	Tracking city CO₂ emissions from space using a high-resolution inverse modelling approach: a case study for Berlin, Germany. Atmospheric Chemistry and Physics, 2016, 16, 9591-9610.	1.9	51
24	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	3.7	824
25	An intercomparison of inverse models for estimating sources and sinks of CO₂ using GOSAT measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5253-5266.	1.2	105
26	Atmospheric CO₂inversion validation using vertical profile measurements: Analysis of four independent inversion models. Journal of Geophysical Research, 2011, 116, .	3.3	41
27	Evaluation of various observing systems for the global monitoring of CO₂ surface fluxes. Atmospheric Chemistry and Physics, 2010, 10, 10503-10520.	1.9	112
28	Cloud albedo increase from carbonaceous aerosol. Atmospheric Chemistry and Physics, 2010, 10, 7669-7684.	1.9	33
29	The importance of transport model uncertainties for the estimation of CO₂ sources and sinks using satellite measurements. Atmospheric Chemistry and Physics, 2010, 10, 9981-9992.	1.9	98
30	Aerosol scattering as a function of altitude in a coastal environment. Journal of Geophysical Research, 2007, 112, .	3.3	5
31	Optical Properties of Aerosol Particles over the Northeast Pacific. Journal of Applied Meteorology and Climatology, 2005, 44, 1206-1220.	1.7	8
32	The greenhouse gas project of ESAâ€™s climate change initiative (GHG-CCI): overview, achievements and future plans. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 165-172.	0.2	1