Julia Marshall

List of Publications by Year
in descending order

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	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	3.7	824
2	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
3	Evaluation of various observing systems for the global monitoring of CO₂ surface fluxes. Atmospheric Chemistry and Physics, 2010, 10, 10503-10520.	1.9	112
4	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
5	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
6	Reviews and syntheses: Carbonyl sulfide as aÂmulti-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657.	1.3	98
7	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	1.8	88
8	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
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	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
11	Atmospheric CO₂inversion validation using vertical profile measurements: Analysis of four independent inversion models. Journal of Geophysical Research, 2011, 116, .	3.3	41
12	Accounting for the vertical distribution of emissions in atmospheric CO₂ simulations. Atmospheric Chemistry and Physics, 2019, 19, 4541-4559.	1.9	37
13	Cloud albedo increase from carbonaceous aerosol. Atmospheric Chemistry and Physics, 2010, 10, 7669-7684.	1.9	33
14	How Much CO2 Is Taken Up by the European Terrestrial Biosphere?. Bulletin of the American Meteorological Society, 2017, 98, 665-671.	1.7	33
15	Analysis of total column CO₂ and CH₄ measurements in Berlin with WRF-GHG. Atmospheric Chemistry and Physics, 2019, 19, 11279-11302.	1.9	30
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	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
18	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

#	Article	IF	Citations
19	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
20	Understanding nighttime methane signals at the Amazon Tall Tower Observatory (ATTO). Atmospheric Chemistry and Physics, 2020, 20, 6583-6606.	1.9	11
21	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
22	Optical Properties of Aerosol Particles over the Northeast Pacific. Journal of Applied Meteorology and Climatology, 2005, 44, 1206-1220.	1.7	8
23	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
24	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
25	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
26	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
27	Aerosol scattering as a function of altitude in a coastal environment. Journal of Geophysical Research, 2007, 112, .	3.3	5
28	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
29	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
30	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
31	CH4 and CO2 IPDA Lidar Measurements During the Comet 2018 Airborne Field Campaign. EPJ Web of Conferences, 2020, 237, 03005.	0.1	1
32	Using NO2 Satellite Observations to Support Satellite-based CO2 Emission Estimates of Cities and Power Plants. , 2018, , .		0