

Markus Hermann

List of Publications by Year in descending order

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33
papers

1,512
citations

394421

19
h-index

395702

33
g-index

39
all docs

39
docs citations

39
times ranked

2498
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-global aerosol mapping in the upper troposphere and lowermost stratosphere with data from the CARIBIC project. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 875.	1.6	15
2	Sources of increase in lowermost stratospheric sulphurous and carbonaceous aerosol background concentrations during 1999–2008 derived from CARIBIC flights. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 66, 23428.	1.6	17
3	Global-scale atmosphere monitoring by in-service aircraft – current achievements and future prospects of the European Research Infrastructure IAGOS. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 28452.	1.6	118
4	Long-term trends of black carbon and particle number concentration in the lower free troposphere in Central Europe. <i>Environmental Sciences Europe</i> , 2021, 33, .	5.5	12
5	Decreasing trends of particle number and black carbon mass concentrations at 16 observational sites in Germany from 2009 to 2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7049-7068.	4.9	28
6	Intercomparison of in-situ aircraft and satellite aerosol measurements in the stratosphere. <i>Scientific Reports</i> , 2019, 9, 15576.	3.3	6
7	Formation and composition of the UTLS aerosol. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	21
8	Airborne observations of newly formed boundary layer aerosol particles under cloudy conditions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8249-8264.	4.9	21
9	Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11595-E11603.	7.1	89
10	Mercury distribution in the upper troposphere and lowermost stratosphere according to measurements by the IAGOS-CARIBIC observatory: 2014–2016. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12329-12343.	4.9	23
11	Particulate sulfur in the upper troposphere and lowermost stratosphere – sources and climate forcing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10937-10953.	4.9	9
12	Atmospheric mercury measurements onboard the CARIBIC passenger aircraft. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2291-2302.	3.1	33
13	An optical particle size spectrometer for aircraft-borne measurements in IAGOS-CARIBIC. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2179-2194.	3.1	14
14	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	23.0	265
15	An Observational Case Study on the Influence of Atmospheric Boundary-Layer Dynamics on New Particle Formation. <i>Boundary-Layer Meteorology</i> , 2016, 158, 67-92.	2.3	66
16	Influence of volcanic eruptions on midlatitude upper tropospheric aerosol and consequences for cirrus clouds. <i>Earth and Space Science</i> , 2015, 2, 285-300.	2.6	10
17	Corrigendum to ‘‘Comparison between CARIBIC Aerosol Samples Analysed by Accelerator-Based Methods and Optical Particle Counter Measurements’’ published in <i>Atmos. Meas. Tech.</i> , 7, 2581–2596, 2014. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 367-367.	3.1	1
18	ALADINA – an unmanned research aircraft for observing vertical and horizontal distributions of ultrafine particles within the atmospheric boundary layer. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1627-1639.	3.1	84

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19	Significant radiative impact of volcanic aerosol in the lowermost stratosphere. Nature Communications, 2015, 6, 7692.	12.8	74
20	Mercury Plumes in the Global Upper Troposphere Observed during Flights with the CARIBIC Observatory from May 2005 until June 2013. Atmosphere, 2014, 5, 342-369.	2.3	24
21	Comparison between CARIBIC Aerosol Samples Analysed by Accelerator-Based Methods and Optical Particle Counter Measurements. Atmospheric Measurement Techniques, 2014, 7, 2581-2596.	3.1	22
22	Composition and evolution of volcanic aerosol from eruptions of Kasatochi, Sarychev and Eyjafjallaj�rkull in 2008�2010 based on CARIBIC observations. Atmospheric Chemistry and Physics, 2013, 13, 1781-1796.	4.9	38
23	CARIBIC aircraft measurements of Eyjafjallaj�rkull volcanic clouds in April/May 2010. Atmospheric Chemistry and Physics, 2012, 12, 879-902.	4.9	25
24	Sub�micrometer aerosol particles in the upper troposphere/lowermost stratosphere as measured by CARIBIC and modeled using the MIT�CAM3 global climate model. Journal of Geophysical Research, 2012, 117, .	3.3	8
25	Pollution events observed during CARIBIC flights in the upper troposphere between South China and the Philippines. Atmospheric Chemistry and Physics, 2010, 10, 1649-1660.	4.9	26
26	Origin of aerosol particles in the mid-latitude and subtropical upper troposphere and lowermost stratosphere from cluster analysis of CARIBIC data. Atmospheric Chemistry and Physics, 2009, 9, 8413-8430.	4.9	15
27	Gaseous mercury distribution in the upper troposphere and lower stratosphere observed onboard the CARIBIC passenger aircraft. Atmospheric Chemistry and Physics, 2009, 9, 1957-1969.	4.9	57
28	Particle Penetration Through a 300 m Inlet Pipe for Sampling Atmospheric Aerosols from a Tall Meteorological Tower. Aerosol Science and Technology, 2007, 41, 811-817.	3.1	25
29	Civil Aircraft for the regular investigation of the atmosphere based on an instrumented container: The new CARIBIC system. Atmospheric Chemistry and Physics, 2007, 7, 4953-4976.	4.9	289
30	Characteristics and origin of lowermost stratospheric aerosol at northern midlatitudes under volcanically quiescent conditions based on CARIBIC observations. Journal of Geophysical Research, 2005, 110, .	3.3	26
31	Aerosol elemental concentrations in the tropopause region from intercontinental flights with the Civil Aircraft for Regular Investigation of the Atmosphere Based on an Instrument Container (CARIBIC) platform. Journal of Geophysical Research, 2002, 107, AAC 3-1-AAC 3-14.	3.3	24
32	Number and sulfur derived 3-parameter aerosol size distributions in the tropopause region from CARIBIC flights between Germany and the Indic. Journal of Aerosol Science, 2002, 33, 595-608.	3.8	6
33	Fine mode participate sulphur in the tropopause region measured from intercontinental flights (CARIBIC). Geophysical Research Letters, 2001, 28, 1175-1178.	4.0	20