Edward Gryspeerdt

List of Publications by Year
in descending order

30	1,865	331642 21	454934 30
papers	citations	h-index	g-index

78	78	78	2267
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660.	23.0	424
2	Constraining the aerosol influence on cloud fraction. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3566-3583.	3.3	129
3	Broad range of 2050 warming from an observationally constrained large climate model ensemble. Nature Geoscience, 2012, 5, 256-260.	12.9	109
4	Will a perfect model agree with perfect observations? The impact of spatial sampling. Atmospheric Chemistry and Physics, 2016, 16, 6335-6353.	4.9	108
5	Constraining the aerosol influence on cloud liquid water path. Atmospheric Chemistry and Physics, 2019, 19, 5331-5347.	4.9	104
6	On the spatio-temporal representativeness of observations. Atmospheric Chemistry and Physics, 2017, 17, 9761-9780.	4.9	84
7	Satellite observations of cloud regime development: the role of aerosol processes. Atmospheric Chemistry and Physics, 2014, 14, 1141-1158.	4.9	81
8	Regimeâ€based analysis of aerosolâ€cloud interactions. Geophysical Research Letters, 2012, 39, .	4.0	77
9	Constraining the instantaneous aerosol influence on cloud albedo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4899-4904.	7.1	77
10	Ice crystal number concentration estimates from lidarâ€“radar satellite remote sensing â€“ Part 1: Method and evaluation. Atmospheric Chemistry and Physics, 2018, 18, 14327-14350.	4.9	61
11	Analysis of polarimetric satellite measurements suggests stronger cooling due to aerosol-cloud interactions. Nature Communications, 2019, 10, 5405.	12.8	55
12	Constraining the Twomey effect from satellite observations: issues and perspectives. Atmospheric Chemistry and Physics, 2020, 20, 15079-15099.	4.9	49
13	Wet scavenging limits the detection of aerosol effects on precipitation. Atmospheric Chemistry and Physics, 2015, 15, 7557-7570.	4.9	46
14	Uncertainty from the choice of microphysics scheme in convection-permitting models significantly exceeds aerosol effects. Atmospheric Chemistry and Physics, 2017, 17, 12145-12175.	4.9	46
15	Cloud fraction mediates the aerosol optical depthâ€cloud top height relationship. Geophysical Research Letters, 2014, 41, 3622-3627.	4.0	45
16	Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674.	4.9	44
17	Surprising similarities in model and observational aerosol radiative forcing estimates. Atmospheric Chemistry and Physics, 2020, 20, 613-623.	4.9	39
18	Links between satellite-retrieved aerosol and precipitation. Atmospheric Chemistry and Physics, 2014, 14, 9677-9694.	4.9	37

#	Article	IF	Citations
19	Ice crystal number concentration estimates from lidarâ€“radar satellite remote sensing â€“ PartÂ2: Controls on the ice crystal number concentration. Atmospheric Chemistry and Physics, 2018, 18, 14351-14370.	4.9	34
20	Community Intercomparison Suite (CIS) v1.4.0: a tool for intercomparing models and observations. Geoscientific Model Development, 2016, 9, 3093-3110.	3.6	33
21	The Impact of Ship Emission Controls Recorded by Cloud Properties. Geophysical Research Letters, 2019, 46, 12547-12555.	4.0	32
22	Assessment of simulated aerosol effective radiative forcings in the terrestrial spectrum. Geophysical Research Letters, 2017, 44, 1001-1007.	4.0	27
23	Observing the timescales of aerosolâ€“cloud interactions in snapshot satellite images. Atmospheric Chemistry and Physics, 2021, 21, 6093-6109.	4.9	23
24	Climate impact of aircraft-induced cirrus assessed from satellite observations before and during COVID-19. Environmental Research Letters, 2021, 16, 064051.	5.2	21
25	Separating radiative forcing by aerosolâ€“cloud interactions and rapid cloud adjustments in the ECHAMâ€“HAMMOZ aerosolâ€“climate model using the method of partial radiative perturbations. Atmospheric Chemistry and Physics, 2019, 19, 15415-15429.	4.9	16
26	The impact of sampling strategy on the cloud droplet number concentration estimated from satellite data. Atmospheric Measurement Techniques, 2022, 15, 3875-3892.	3.1	15
27	Stability-dependent increases in liquid water with droplet number in the Arctic. Atmospheric Chemistry and Physics, 2022, 22, 5743-5756.	4.9	9
28	Addressing the difficulties in quantifying droplet number response to aerosol from satellite observations. Atmospheric Chemistry and Physics, 2022, 22, 7353-7372.	4.9	9
29	An automated cirrus classification. Atmospheric Chemistry and Physics, 2018, 18, 6157-6169.	4.9	5
30	Meteorological Conditions Favorable for Strong Anthropogenic Aerosol Impacts on Clouds. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	2