Michael C Pitts

List of Publications by Year
in descending order

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22 papers	1,422 citations	687363 13 h-index	677142 22 g-index
42 all docs	42 docs citations	42 times ranked	1899 citing authors

#	Article	IF	Citations
1	Unprecedented Arctic ozone loss in 2011. Nature, 2011, 478, 469-475.	27.8	572
2	The CALIPSO version 4 automated aerosol classification and lidar ratio selection algorithm. Atmospheric Measurement Techniques, 2018, 11, 6107-6135.	3.1	334
3	Polar stratospheric cloud climatology based on Stratospheric Aerosol Measurement II observations from 1978 to 1989. Journal of Geophysical Research, 1994, 99, 13083.	3.3	121
4	A unified, long-term, high-latitude stratospheric aerosol and cloud database using SAM II, SAGE II, and POAM II/III data: Algorithm description, database definition, and climatology. Journal of Geophysical Research, 2003, 108, .	3.3	55
5	Polar stratospheric cloud climatology based on CALIPSO spaceborne lidar measurements from 2006 to 2017. Atmospheric Chemistry and Physics, 2018, 18, 10881-10913.	4.9	55
6	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. Reviews of Geophysics, 2021, 59, e2020RG000702.	23.0	49
7	A climatology of polar stratospheric cloud composition between 2002 and 2012 based on MIPAS/Envisat observations. Atmospheric Chemistry and Physics, 2018, 18, 5089-5113.	4.9	38
8	Multilevel Cloud Structures over Svalbard. Monthly Weather Review, 2017, 145, 1149-1159.	1.4	24
9	A multi-wavelength classification method for polar stratospheric cloud types using infrared limb spectra. Atmospheric Measurement Techniques, 2016, 9, 3619-3639.	3.1	21
10	Widespread polar stratospheric ice clouds in the 2015â€"2016 Arctic winter â€" implications for ice nucleation. Atmospheric Chemistry and Physics, 2018, 18, 15623-15641.	4.9	18
11	Polar stratospheric cloud evolution and chlorine activation measured by CALIPSO and MLS, and modeled by ATLAS. Atmospheric Chemistry and Physics, 2016, 16, 3311-3325.	4.9	15
12	Comparing simulated PSC optical properties with CALIPSO observations during the 2010 Antarctic winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1175-1202.	3.3	14
13	Comparison of Antarctic polar stratospheric cloud observations by ground-based and space-borne lidar and relevance for chemistryâ€"climate models. Atmospheric Chemistry and Physics, 2019, 19, 955-972.	4.9	14
14	Lagrangian simulation of ice particles and resulting dehydration in the polar winter stratosphere. Atmospheric Chemistry and Physics, 2019, 19, 543-563.	4.9	13
15	Spectroscopic evidence of large aspherical <i>Î²</i>-NAT particles involved in denitrification in the December 2011 Arctic stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 9505-9532.	4.9	12
16	Development of a Polar Stratospheric Cloud Model Within the Community Earth System Model: Assessment of 2010 Antarctic Winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,418.	3.3	11
17	Comment on â€œA tropical â€˜NATâ€‐likeâ€™ belt observed from spaceâ€•by H. Chepfer and V. Noel. Geophysical Research Letters, 2009, 36, .	4.0	7
18	Vortex-wide chlorine activation by a mesoscale PSC event in the Arctic winter of 2009/10. Atmospheric Chemistry and Physics, 2016, 16, 4569-4577.	4.9	7

#	Article	IF	Citations
19	Quasi-coincident observations of polar stratospheric clouds by ground-based lidar and CALIOP at Concordia (Dome C, Antarctica) from 2014 to 2018. Atmospheric Chemistry and Physics, 2021, 21, 2165-2178.	4.9	7
20	Evaluation of polar stratospheric clouds in the global chemistryâ€“climate model SOCOLv3.1 by comparison with CALIPSO spaceborne lidar measurements. Geoscientific Model Development, 2021, 14, 935-959.	3.6	7
21	The MIPAS/Envisat climatology (2002â€“2012) of polar stratospheric cloud volume density profiles. Atmospheric Measurement Techniques, 2018, 11, 5901-5923.	3.1	5
22	On the best locations for ground-based polar stratospheric cloud (PSC) observations. Atmospheric Chemistry and Physics, 2021, 21, 505-516.	4.9	5