

Sylvia C Sullivan

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

667
citations

840776

11
h-index

888059

17
g-index

34
all docs

34
docs citations

34
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Large increase in global storm runoff extremes driven by climate and anthropogenic changes. <i>Nature Communications</i> , 2018, 9, 4389.	12.8	260
2	Does the Hook Structure Constrain Future Flood Intensification Under Anthropogenic Climate Warming?. <i>Water Resources Research</i> , 2021, 57, e2020WR028491.	4.2	78
3	Projected increases in magnitude and socioeconomic exposure of global droughts in 1.5 and 2°C warmer climates. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 451-472.	4.9	69
4	Initiation of secondary ice production in clouds. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1593-1610.	4.9	53
5	The impact of secondary ice production on Arctic stratocumulus. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1301-1316.	4.9	42
6	Role of updraft velocity in temporal variability of global cloud hydrometeor number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5791-5796.	7.1	38
7	Investigating the contribution of secondary ice production to cloud ice crystal numbers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9391-9412.	3.3	22
8	The effect of secondary ice production parameterization on the simulation of a cold frontal rainband. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16461-16480.	4.9	19
9	Understanding cirrus ice crystal number variability for different heterogeneous ice nucleation spectra. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2611-2629.	4.9	12
10	Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). <i>Geoscientific Model Development</i> , 2018, 11, 4021-4041.	3.6	12
11	The Response of Tropical Organized Convection to El Niño Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8481-8500.	3.3	12
12	Environmental Controls on Tropical Mesoscale Convective System Precipitation Intensity. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 4233-4249.	1.7	12
13	Reply to "Increases in temperature do not translate to increased flooding". <i>Nature Communications</i> , 2019, 10, 5675.	12.8	10
14	Changes in Tropical Precipitation Intensity With El Niño Warming. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087663.	4.0	7
15	Cold cloud microphysical process rates in a global chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1485-1505.	4.9	7
16	Quantifying sensitivities of ice crystal number and sources of ice crystal number variability in CAM 5.1 using the adjoint of a physically based cirrus formation parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2834-2854.	3.3	6
17	Ice microphysical processes exert a strong control on the simulated radiative energy budget in the tropics. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	5