Charles L Curry

List of Publications by Year
in descending order

33 papers	3,808 citations	304743 22 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	5098 citing authors

#	Article	IF	Citations
1	The Global Methane Budget 2000â€“2017. Earth System Science Data, 2020, 12, 1561-1623.	9.9	1,199
2	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	9.9	824
3	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 8320-8332.	3.3	226
4	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	3.3	202
5	Modeling the soil consumption of atmospheric methane at the global scale. Global Biogeochemical Cycles, 2007, 21, .	4.9	148
6	The Effect of Terrestrial Photosynthesis Down Regulation on the Twentieth-Century Carbon Budget Simulated with the CCCma Earth System Model. Journal of Climate, 2009, 22, 6066-6088.	3.2	135
7	The impact of abrupt suspension of solar radiation management (termination effect) in experiment G2 of the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 9743-9752.	3.3	129
8	Molecular oxygen in the Ï•â€‰Ophiuchi cloud. Astronomy and Astrophysics, 2007, 466, 999-1003.	5.1	121
9	A multi-model assessment of regional climate disparities caused by solar geoengineering. Environmental Research Letters, 2014, 9, 074013.	5.2	101
10	Low upper limits on the O2abundance from the Odin satellite. Astronomy and Astrophysics, 2003, 402, L77-L81.	5.1	84
11	A multimodel examination of climate extremes in an idealized geoengineering experiment. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3900-3923.	3.3	75
12	The global carbon cycle in the Canadian Earth system model (CanESM1): Preindustrial control simulation. Journal of Geophysical Research, 2010, 115, .	3.3	66
13	Solar radiation management impacts on agriculture in China: A case study in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2014, 119, 8695-8711.	3.3	53
14	Composite Polytrope Models of Molecular Clouds. I. Theory. Astrophysical Journal, 2000, 528, 734-755.	4.5	41
15	The consumption of atmospheric methane by soil in a simulated future climate. Biogeosciences, 2009, 6, 2355-2367.	3.3	39
16	The gas environment of the young stellar object GL 2591 studied by infrared spectroscopy. Astrophysical Journal, 1989, 341, 1020.	4.5	36
17	Embedded, Selfâ€Gravitating Equilibria in Sheetlike and Filamentary Molecular Clouds. Astrophysical Journal, 2000, 541, 831-840.	4.5	33
18	On the global stability of magnetized accretion disks. 1: Axisymmetric modes. Astrophysical Journal, 1994, 434, 206.	4.5	33

#	Article	IF	Citations
19	Statistical downscaling of historical monthly mean winds over a coastal region of complex terrain. I. Predicting wind speed. Climate Dynamics, 2012, 38, 1281-1299.	3.8	30
20	Shapes of Molecular Cloud Cores and the Filamentary Mode of Star Formation. Astrophysical Journal, 2002, 576, 849-859.	4.5	28
21	Atmospheric Rivers Increase Future Flood Risk in Western Canada's Largest Pacific River. Geophysical Research Letters, 2019, 46, 1651-1661.	4.0	27
22	Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering. Atmospheric Chemistry and Physics, 2018, 18, 10133-10156.	4.9	25
23	Statistical downscaling of historical monthly mean winds over a coastal region of complex terrain. II. Predicting wind components. Climate Dynamics, 2012, 38, 1301-1311.	3.8	22
24	Quantifying projected changes in runoff variability and flow regimes of the Fraser River Basin, British Columbia. Hydrology and Earth System Sciences, 2019, 23, 811-828.	4.9	21
25	Examining controls on peak annual streamflow and floods in the Fraser River Basin of British Columbia. Hydrology and Earth System Sciences, 2018, 22, 2285-2309.	4.9	20
26	Overlap of Solar and Infrared Spectra and the Shortwave Radiative Effect of Methane. Journals of the Atmospheric Sciences, 2010, 67, 2372-2389.	1.7	19
27	Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO₂. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5226-5239.	3.3	19
28	The Structure and Evolution of Magnetized Cloud Cores in a Zeroâ€Density Background. Astrophysical Journal, 2001, 555, 160-177.	4.5	18
29	Model-Based Projections and Uncertainties of Near-Surface Wind Climate in Western Canada. Journal of Applied Meteorology and Climatology, 2016, 55, 2229-2245.	1.5	9
30	Searching for Added Value in Simulating Climate Extremes with a High-Resolution Regional Climate Model over Western Canada. Atmosphere - Ocean, 2016, 54, 364-384.	1.6	6
31	An assessment of Pinus contorta seed production in British Columbia: Geographic variation and dynamically-downscaled climate correlates from the Canadian Regional Climate Model. Agricultural and Forest Meteorology, 2017, 236, 194-210.	4.8	6
32	Relaxing the well-mixed greenhouse gas approximation in climate simulations: Consequences for stratospheric climate. Journal of Geophysical Research, 2006, 111, .	3.3	5
33	Searching for Added Value in Simulating Climate Extremes with a High-Resolution Regional Climate Model over Western Canada. II: Basin-Scale Results. Atmosphere - Ocean, 2016, 54, 385-402.	1.6	3