Sean M R Crowell

List of Publications by Year
in descending order

22 papers	1,005 citations	687363 13 h-index	713466 21 g-index
41 all docs	41 docs citations	41 times ranked	1467 citing authors

#	Article	IF	Citations
1	Four years of global carbon cycle observed from the Orbiting Carbon Observatory 2 (OCO-2) versionÂ9 and in situ data and comparison to OCO-2 versionÂ7. Atmospheric Chemistry and Physics, 2022, 22, 1097-1130.	4.9	44
2	Multiâ€Season Evaluation of CO₂ Weather in OCOâ€2 MIP Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	5
3	On the role of atmospheric model transport uncertainty in estimating the Chinese land carbon sink. Nature, 2022, 603, E13-E14.	27.8	21
4	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON). Atmospheric Measurement Techniques, 2022, 15, 2433-2463.	3.1	10
5	Large loss and rapid recovery of vegetation cover and aboveground biomass over forest areas in Australia during 2019â€“2020. Remote Sensing of Environment, 2022, 278, 113087.	11.0	26
6	Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon. Nature Climate Change, 2021, 11, 442-448.	18.8	166
7	Implementation of Improved Parameterization of Terrestrial Flux in WRFâ€VPRM Improves the Simulation of Nighttime CO₂ Peaks and a Daytime CO₂ Band Ahead of a Cold Front. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034362.	3.3	15
8	Multisensor and Multimodel Monitoring and Investigation of a Wintertime Air Pollution Event Ahead of a Cold Front Over Eastern China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033538.	3.3	14
9	Solar-induced chlorophyll fluorescence from the Geostationary Carbon Cycle Observatory (GeoCarb): An extensive simulation study. Remote Sensing of Environment, 2021, 263, 112565.	11.0	9
10	Terrestrial CO₂ Fluxes, Concentrations, Sources and Budget in Northeast China: Observational and Modeling Studies. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031686.	3.3	15
11	Dynamical Downscaling of CO₂ in 2016 Over the Contiguous United States Using WRFâ€VPRM, a Weatherâ€Biosphereâ€Onlineâ€Coupled Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001875.	3.8	21
12	A scanning strategy optimized for signal-to-noise ratio for the Geostationary Carbon Cycle Observatory (GeoCarb) instrument. Atmospheric Measurement Techniques, 2019, 12, 3317-3334.	3.1	7
13	The 2015â€“2016 carbon cycle as seen from OCO-2 and the global in situ network. Atmospheric Chemistry and Physics, 2019, 19, 9797-9831.	4.9	113
14	Quantifying the Impact of Atmospheric Transport Uncertainty on CO₂ Surface Flux Estimates. Global Biogeochemical Cycles, 2019, 33, 484-500.	4.9	95
15	On the Ability of Spaceâ€Based Passive and Active Remote Sensing Observations of CO₂ to Detect Flux Perturbations to the Carbon Cycle. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1460-1477.	3.3	25
16	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. Atmospheric Measurement Techniques, 2018, 11, 6539-6576.	3.1	188
17	The Potential of the Geostationary Carbon Cycle Observatory (GeoCarb) to Provide Multi-scale Constraints on the Carbon Cycle in the Americas. Frontiers in Environmental Science, 2018, 6, .	3.3	60
18	Model structures amplify uncertainty in predicted soil carbon responses to climate change. Nature Communications, 2018, 9, 2171.	12.8	88

#	Article	IF	Citations
19	Impacts of atmospheric state uncertainty on O₂ measurement requirements for the ASCENDS mission. Atmospheric Measurement Techniques, 2015, 8, 2685-2697.	3.1	5
20	Constraining regional greenhouse gas emissions using geostationary concentration measurements: a theoretical study. Atmospheric Measurement Techniques, 2014, 7, 3285-3293.	3.1	46
21	Estimation of near surface wind speeds in strongly rotating flows. Applied Mathematics and Computation, 2014, 235, 201-211.	2.2	0
22	Comparison of Traditional and Novel Discretization Methods for Advection Models in Numerical Weather Prediction. Lecture Notes in Computer Science, 2009, , 263-272.	1.3	2