Gretchen Keppel-Aleks

List of Publications by Year
in descending order

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25 papers	2,401 citations	516710 16 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	3288 citing authors

#	Article	IF	Citations
1	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. Journal of Advances in Modeling Earth Systems, 2019, 11, 4245-4287.	3.8	692
2	Calibration of the Total Carbon Column Observing Network using aircraft profile data. Atmospheric Measurement Techniques, 2010, 3, 1351-1362.	3.1	441
3	A method for evaluating bias in global measurements of CO₂ total columns from space. Atmospheric Chemistry and Physics, 2011, 11, 12317-12337.	4.9	279
4	The International Land Model Benchmarking (ILAMB) System: Design, Theory, and Implementation. Journal of Advances in Modeling Earth Systems, 2018, 10, 2731-2754.	3.8	175
5	Sources of variations in total column carbon dioxide. Atmospheric Chemistry and Physics, 2011, 11, 3581-3593.	4.9	149
6	Total column CO₂ measurements at Darwin, Australia â€“ site description and calibration against in situ aircraft profiles. Atmospheric Measurement Techniques, 2010, 3, 947-958.	3.1	131
7	The imprint of surface fluxes and transport on variations in total column carbon dioxide. Biogeosciences, 2012, 9, 875-891.	3.3	98
8	Towards constraints on fossil fuel emissions from total column carbon dioxide. Atmospheric Chemistry and Physics, 2013, 13, 4349-4357.	4.9	79
9	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. Journal of Climate, 2013, 26, 4447-4475.	3.2	48
10	The covariation of Northern Hemisphere summertime CO₂ with surface temperature in boreal regions. Atmospheric Chemistry and Physics, 2013, 13, 9447-9459.	4.9	42
11	Separating the influence of temperature, drought, and fire on interannual variability in atmospheric CO₂. Global Biogeochemical Cycles, 2014, 28, 1295-1310.	4.9	33
12	Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO ₂ seasonal amplification. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21079-21087.	7.1	27
13	Satellite Monitoring of Natural Reforestation Efforts in China's Drylands. One Earth, 2020, 2, 98-108.	6.8	24
14	Satellite observations reveal seasonal redistribution of northern ecosystem productivity in response to interannual climate variability. Remote Sensing of Environment, 2020, 242, 111755.	11.0	23
15	The effect of atmospheric sulfate reductions on diffuse radiation and photosynthesis in the United States during 1995â€“2013. Geophysical Research Letters, 2016, 43, 9984-9993.	4.0	22
16	Behavioral adaptation to climate change in wildfireâ€prone forests. Wiley Interdisciplinary Reviews: Climate Change, 2018, 9, e553.	8.1	22
17	Addressing biases in Arcticâ€“boreal carbon cycling in the Community Land Model Version 5. Geoscientific Model Development, 2021, 14, 3361-3382.	3.6	14
18	A Geostatistical Framework for Quantifying the Imprint of Mesoscale Atmospheric Transport on Satellite Trace Gas Retrievals. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9773-9795.	3.3	12

#	Article	IF	Citations
19	Contrasting Regional Carbon Cycle Responses to Seasonal Climate Anomalies Across the Eastâ€West Divide of Temperate North America. Global Biogeochemical Cycles, 2020, 34, e2020GB006598.	4.9	12
20	Influence of Vertical Heterogeneities in the Canopy Microenvironment on Interannual Variability of Carbon Uptake in Temperate Deciduous Forests. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005658.	3.0	10
21	Interannual and Seasonal Drivers of Carbon Cycle Variability Represented by the Community Earth System Model (CESM2). Global Biogeochemical Cycles, 2021, 35, e2021GB007034.	4.9	9
22	Drivers of multi-century trends in the atmospheric CO₂ mean annual cycle in a prognostic ESM. Biogeosciences, 2017, 14, 1383-1401.	3.3	8
23	Leveraging the signature of heterotrophic respiration on atmospheric CO₂ for model benchmarking. Biogeosciences, 2020, 17, 1293-1308.	3.3	8
24	Can Land Surface Models Capture the Observed Soil Moisture Control of Water and Carbon Fluxes in Temperateâ€Toâ€Boreal Forests?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005999.	3.0	7
25	A Functional Response Metric for the Temperature Sensitivity of Tropical Ecosystems. Earth Interactions, 2018, 22, 1-20.	1.5	3