Clara Orbe

List of Publications by Year
in descending order

41 papers	1,139 citations	471371 17 h-index	414303 32 g-index
45 all docs	45 docs citations	45 times ranked	1567 citing authors

#	Article	IF	Citations
1	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	1.3	234
2	Stratospheric influence on the tropospheric circulation revealed by idealized ensemble forecasts. Geophysical Research Letters, 2009, 36, .	1.5	84
3	Recent Decline in Extratropical Lower Stratospheric Ozone Attributed to Circulation Changes. Geophysical Research Letters, 2018, 45, 5166-5176.	1.5	71
4	Largeâ€Scale Atmospheric Transport in <scp>GEOS</scp> Replay Simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 2545-2560.	1.3	64
5	Uncertainty in the Response of Sudden Stratospheric Warmings and Stratosphereâ€Troposphere Coupling to Quadrupled CO₂ Concentrations in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032345.	1.2	50
6	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	1.3	49
7	Airâ€mass origin in the tropical lower stratosphere: The influence of Asian boundary layer air. Geophysical Research Letters, 2015, 42, 4240-4248.	1.5	44
8	Tropospheric transport differences between models using the same largeâ€scale meteorological fields. Geophysical Research Letters, 2017, 44, 1068-1078.	1.5	34
9	Large-scale tropospheric transport in the Chemistryâ€“Climate Model Initiative (CCMI) simulations. Atmospheric Chemistry and Physics, 2018, 18, 7217-7235.	1.9	32
10	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphereâ€”Model Structure, Climatology, Variability, and Climate Sensitivity. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032204.	1.2	32
11	Airâ€mass origin as a diagnostic of tropospheric transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1459-1470.	1.2	31
12	Isentropic transport and the seasonal cycle amplitude of CO₂. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8106-8124.	1.2	30
13	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. Journals of the Atmospheric Sciences, 2016, 73, 3785-3802.	0.6	26
14	Mechanisms Linked to Recent Ozone Decreases in the Northern Hemisphere Lower Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031631.	1.2	25
15	The Brewerâ€“Dobson circulation in CMIP6. Atmospheric Chemistry and Physics, 2021, 21, 13571-13591.	1.9	25
16	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	22
17	Representation of Modes of Variability in Six U.S. Climate Models. Journal of Climate, 2020, 33, 7591-7617.	1.2	21
18	Flux distributions as robust diagnostics of stratosphereâ€troposphere exchange. Journal of Geophysical Research, 2012, 117, .	3.3	18

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19	Airmass Origin in the Arctic. Part I: Seasonality. Journal of Climate, 2015, 28, 4997-5014.	1.2	18
20	Spatial and temporal variability of interhemispheric transport times. Atmospheric Chemistry and Physics, 2018, 18, 7439-7452.	1.9	18
21	The MJO-QBO Relationship in a GCM with Stratospheric Nudging. Journal of Climate, 2021, , 1-69.	1.2	17
22	Description and Evaluation of the specified-dynamics experiment in the Chemistry-Climate Model Initiative. Atmospheric Chemistry and Physics, 2020, 20, 3809-3840.	1.9	16
23	Multi-model impacts of climate change on pollution transport from global emission source regions. Atmospheric Chemistry and Physics, 2017, 17, 14219-14237.	1.9	14
24	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphereâ€”2. Validation of Largeâ€Scale Transport and Evaluation of Climate Response. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033151.	1.2	14
25	An epidemiological approach to the spread of political third parties. Discrete and Continuous Dynamical Systems - Series B, 2011, 15, 707-738.	0.5	14
26	The Simulation of Stratospheric Water Vapor Over the Asian Summer Monsoon in CESM1(WACCM) Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11377-11391.	1.2	13
27	Evaluating Simulations of Interhemispheric Transport: Interhemispheric Exchange Time Versus SF₆ Age. Geophysical Research Letters, 2019, 46, 1113-1120.	1.5	12
28	Air-mass Origin in the Arctic. Part II: Response to Increases in Greenhouse Gases. Journal of Climate, 2015, 28, 9105-9120.	1.2	11
29	The role of monsoonâ€like zonally asymmetric heating in interhemispheric transport. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3282-3298.	1.2	11
30	Fast Transport Pathways Into the Northern Hemisphere Upper Troposphere and Lower Stratosphere During Northern Summer. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031552.	1.2	11
31	Dynamical and Trace Gas Responses of the Quasiâ€Biennial Oscillation to Increased CO₂. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034151.	1.2	11
32	GCAP 2.0: a global 3-D chemical-transport model framework for past, present, and future climate scenarios. Geoscientific Model Development, 2021, 14, 5789-5823.	1.3	11
33	Nonâ€Monotonic Response of the Climate System to Abrupt CO₂ Forcing. Geophysical Research Letters, 2021, 48, e2020GL090861.	1.5	10
34	Large-scale transport into the Arctic: the roles of the midlatitude jet and the Hadley Cell. Atmospheric Chemistry and Physics, 2019, 19, 5511-5528.	1.9	8
35	Stratospheric mean residence time and mean age on the tropopause: Connections and implications for observational constraints. Journal of Geophysical Research, 2012, 117, .	3.3	7
36	Seasonal ventilation of the stratosphere: Robust diagnostics from oneâ€way flux distributions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 293-306.	1.2	7

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37	Summertime Transport Pathways From Different Northern Hemisphere Regions Into the Arctic. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033811.	1.2	7
38	Asymmetric Warming/Cooling Response to CO₂ Increase/Decrease Mainly Due To Nonâ€Logarithmic Forcing, Not Feedbacks. Geophysical Research Letters, 2022, 49, .	1.5	6
39	Response of the Quasiâ€Biennial Oscillation to Historical Volcanic Eruptions. Geophysical Research Letters, 2021, 48, e2021GL095412.	1.5	5
40	Tropospheric Ageâ€ofâ€Air: Influence of SF₆ Emissions on Recent Surface Trends and Model Biases. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035451.	1.2	3
41	Dependence of Atmospheric Transport Into the Arctic on the Meridional Extent of the Hadley Cell. Geophysical Research Letters, 2020, 47, .	1.5	2