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	Asymmetric Warming/Cooling Response to CO₂ Increase/Decrease Mainly Due To Nonâ€Logarithmic Forcing, Not Feedbacks. Geophysical Research Letters, 2022, 49, .	1.5	6
2	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	22
3	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	1.3	49
4	Summertime Transport Pathways From Different Northern Hemisphere Regions Into the Arctic. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033811.	1.2	7
5	The MJO-QBO Relationship in a GCM with Stratospheric Nudging. Journal of Climate, 2021, , 1-69.	1.2	17
6	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
7	Nonâ€Monotonic Response of the Climate System to Abrupt CO₂ Forcing. Geophysical Research Letters, 2021, 48, e2020GL090861.	1.5	10
8	The Breweâ€“Dobson circulation in CMIP6. Atmospheric Chemistry and Physics, 2021, 21, 13571-13591.	1.9	25
9	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
10	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
11	Response of the Quasiâ€Biennial Oscillation to Historical Volcanic Eruptions. Geophysical Research Letters, 2021, 48, e2021GL095412.	1.5	5
12	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	1.3	234
13	Mechanisms Linked to Recent Ozone Decreases in the Northern Hemisphere Lower Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031631.	1.2	25
14	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
15	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
16	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
17	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
18	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

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19	Representation of Modes of Variability in Six U.S. Climate Models. Journal of Climate, 2020, 33, 7591-7617.	1.2	21
20	Dependence of Atmospheric Transport Into the Arctic on the Meridional Extent of the Hadley Cell. Geophysical Research Letters, 2020, 47, .	1.5	2
21	Evaluating Simulations of Interhemispheric Transport: Interhemispheric Exchange Time Versus SF₆ Age. Geophysical Research Letters, 2019, 46, 1113-1120.	1.5	12
22	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
23	Large-scale tropospheric transport in the Chemistryâ€“Climate Model Initiative (CCMI) simulations. Atmospheric Chemistry and Physics, 2018, 18, 7217-7235.	1.9	32
24	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
25	Recent Decline in Extratropical Lower Stratospheric Ozone Attributed to Circulation Changes. Geophysical Research Letters, 2018, 45, 5166-5176.	1.5	71
26	Spatial and temporal variability of interhemispheric transport times. Atmospheric Chemistry and Physics, 2018, 18, 7439-7452.	1.9	18
27	The role of monsoonâ€like zonally asymmetric heating in interhemispheric transport. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3282-3298.	1.2	11
28	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
29	Largeâ€Scale Atmospheric Transport in <scp>GEOS</scp> Replay Simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 2545-2560.	1.3	64
30	Tropospheric transport differences between models using the same largeâ€scale meteorological fields. Geophysical Research Letters, 2017, 44, 1068-1078.	1.5	34
31	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. Journals of the Atmospheric Sciences, 2016, 73, 3785-3802.	0.6	26
32	Isentropic transport and the seasonal cycle amplitude of CO₂. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8106-8124.	1.2	30
33	Air-mass Origin in the Arctic. Part II: Response to Increases in Greenhouse Gases. Journal of Climate, 2015, 28, 9105-9120.	1.2	11
34	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
35	Airmass Origin in the Arctic. Part I: Seasonality. Journal of Climate, 2015, 28, 4997-5014.	1.2	18
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	Airâ€mass origin as a diagnostic of tropospheric transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1459-1470.	1.2	31
38	Flux distributions as robust diagnostics of stratosphereâ€troposphere exchange. Journal of Geophysical Research, 2012, 117, .	3.3	18
39	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
40	An epidemiological approach to the spread of political third parties. Discrete and Continuous Dynamical Systems - Series B, 2011, 15, 707-738.	0.5	14
41	Stratospheric influence on the tropospheric circulation revealed by idealized ensemble forecasts. Geophysical Research Letters, 2009, 36, .	1.5	84