

J T Fasullo

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

16,597
citations

25034

57
h-index

16183

124
g-index

136
all docs

136
docs citations

136
times ranked

15319
citing authors

#	ARTICLE	IF	CITATIONS
1	Earth's Global Energy Budget. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 311-324.	3.3	1,417
2	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	3.8	935
3	Estimates of the Global Water Budget and Its Annual Cycle Using Observational and Model Data. <i>Journal of Hydrometeorology</i> , 2007, 8, 758-769.	1.9	716
4	Climate-change-driven accelerated sea-level rise detected in the altimeter era. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2022-2025.	7.1	700
5	Trends and variability in column-integrated atmospheric water vapor. <i>Climate Dynamics</i> , 2005, 24, 741-758.	3.8	663
6	Model-based evidence of deep-ocean heat uptake during surface-temperature hiatus periods. <i>Nature Climate Change</i> , 2011, 1, 360-364.	18.8	610
7	Attribution of climate extreme events. <i>Nature Climate Change</i> , 2015, 5, 725-730.	18.8	605
8	An apparent hiatus in global warming?. <i>Earth's Future</i> , 2013, 1, 19-32.	6.3	527
9	Improved estimates of ocean heat content from 1960 to 2015. <i>Science Advances</i> , 2017, 3, e1601545.	10.3	460
10	Atmospheric Moisture Transports from Ocean to Land and Global Energy Flows in Reanalyses. <i>Journal of Climate</i> , 2011, 24, 4907-4924.	3.2	459
11	Externally Forced and Internally Generated Decadal Climate Variability Associated with the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , 2013, 26, 7298-7310.	3.2	405
12	Climate Variability and Change since 850 CE: An Ensemble Approach with the Community Earth System Model. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 735-754.	3.3	382
13	Simulation of Present-Day and Twenty-First-Century Energy Budgets of the Southern Oceans. <i>Journal of Climate</i> , 2010, 23, 440-454.	3.2	371
14	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. <i>Reviews of Geophysics</i> , 2013, 51, 450-483.	23.0	367
15	The global monsoon across time scales: Mechanisms and outstanding issues. <i>Earth-Science Reviews</i> , 2017, 174, 84-121.	9.1	290
16	A Hydrological Definition of Indian Monsoon Onset and Withdrawal. <i>Journal of Climate</i> , 2003, 16, 3200-3211.	3.2	286
17	Climate extremes and climate change: The Russian heat wave and other climate extremes of 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	284
18	The 2011 La Niña: So strong, the oceans fell. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	279

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19	Seasonal aspects of the recent pause in surface warming. <i>Nature Climate Change</i> , 2014, 4, 911-916.	18.8	276
20	Earth's Energy Imbalance. <i>Journal of Climate</i> , 2014, 27, 3129-3144.	3.2	275
21	Black carbon aerosols and the third polar ice cap. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4559-4571.	4.9	268
22	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337.	4.0	249
23	Hurricane Harvey Links to Ocean Heat Content and Climate Change Adaptation. <i>Earth's Future</i> , 2018, 6, 730-744.	6.3	218
24	Warming of the Eurasian Landmass Is Making the Arabian Sea More Productive. <i>Science</i> , 2005, 308, 545-547.	12.6	212
25	Patterns of Indian Ocean sea-level change in a warming climate. <i>Nature Geoscience</i> , 2010, 3, 546-550.	12.9	203
26	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,036.	3.3	202
27	The Annual Cycle of the Energy Budget. Part II: Meridional Structures and Poleward Transports. <i>Journal of Climate</i> , 2008, 21, 2313-2325.	3.2	198
28	Australia's unique influence on global sea level in 2010-2011. <i>Geophysical Research Letters</i> , 2013, 40, 4368-4373.	4.0	174
29	Tracking Earth's Energy. <i>Science</i> , 2010, 328, 316-317.	12.6	163
30	The global monsoon across timescales: coherent variability of regional monsoons. <i>Climate of the Past</i> , 2014, 10, 2007-2052.	3.4	152
31	A Less Cloudy Future: The Role of Subtropical Subsidence in Climate Sensitivity. <i>Science</i> , 2012, 338, 792-794.	12.6	145
32	The Annual Cycle of the Energy Budget. Part I: Global Mean and Land-Ocean Exchanges. <i>Journal of Climate</i> , 2008, 21, 2297-2312.	3.2	142
33	El Niño Like Hydroclimate Responses to Last Millennium Volcanic Eruptions. <i>Journal of Climate</i> , 2016, 29, 2907-2921.	3.2	138
34	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2361-2371.	3.3	129
35	Record-Setting Ocean Warmth Continued in 2019. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 137-142.	4.3	126
36	A Stratified Diagnosis of the Indian Monsoon-Eurasian Snow Cover Relationship. <i>Journal of Climate</i> , 2004, 17, 1110-1122.	3.2	123

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37	ENSO's Changing Influence on Temperature, Precipitation, and Wildfire in a Warming Climate. <i>Geophysical Research Letters</i> , 2018, 45, 9216-9225.	4.0	118
38	Global warming due to increasing absorbed solar radiation. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	117
39	Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. <i>Journal of Climate</i> , 2020, 33, 10357-10381.	3.2	105
40	Role of eruption season in reconciling model and proxy responses to tropical volcanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1822-1826.	7.1	101
41	Upper Ocean Temperatures Hit Record High in 2020. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 523-530.	4.3	99
42	Insights into Earth's Energy Imbalance from Multiple Sources. <i>Journal of Climate</i> , 2016, 29, 7495-7505.	3.2	95
43	Tracking Earth's Energy: From El Niño to Global Warming. <i>Surveys in Geophysics</i> , 2012, 33, 413-426.	4.6	91
44	Evaluating Modes of Variability in Climate Models. <i>Eos</i> , 2014, 95, 453-455.	0.1	84
45	Atlantic meridional heat transports computed from balancing Earth's energy locally. <i>Geophysical Research Letters</i> , 2017, 44, 1919-1927.	4.0	81
46	Regional Energy and Water Cycles: Transports from Ocean to Land. <i>Journal of Climate</i> , 2013, 26, 7837-7851.	3.2	76
47	Understanding of Contemporary Regional Sea Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672.	23.0	74
48	Metrics for the Diurnal Cycle of Precipitation: Toward Routine Benchmarks for Climate Models. <i>Journal of Climate</i> , 2016, 29, 4461-4471.	3.2	73
49	The Regional Hydroclimate Response to Stratospheric Sulfate Geoengineering and the Role of Stratospheric Heating. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12587-12616.	3.3	73
50	Relationships between tropical sea surface temperature and top-of-atmosphere radiation. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	66
51	Hydrological Signatures Relating the Asian Summer Monsoon and ENSO. <i>Journal of Climate</i> , 2002, 15, 3082-3095.	3.2	64
52	Water and energy budgets of hurricanes and implications for climate change. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	62
53	An Observational Estimate of Inferred Ocean Energy Divergence. <i>Journal of Physical Oceanography</i> , 2008, 38, 984-999.	1.7	62
54	A mechanism for land-ocean contrasts in global monsoon trends in a warming climate. <i>Climate Dynamics</i> , 2012, 39, 1137-1147.	3.8	62

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55	Climate variability and relationships between top-of-atmosphere radiation and temperatures on Earth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3642-3659.	3.3	62
56	Robust Land-Ocean Contrasts in Energy and Water Cycle Feedbacks*. <i>Journal of Climate</i> , 2010, 23, 4677-4693.	3.2	61
57	Altimeter-era emergence of the patterns of forced sea-level rise in climate models and implications for the future. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12944-12949.	7.1	61
58	Water and energy budgets of hurricanes: Case studies of Ivan and Katrina. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	56
59	The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A33.	3.3	54
60	2018 Continues Record Global Ocean Warming. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 249-252.	4.3	54
61	On the Radiative and Dynamical Feedbacks over the Equatorial Pacific Cold Tongue. <i>Journal of Climate</i> , 2003, 16, 2425-2432.	3.2	53
62	Evolution of Ocean Heat Content Related to ENSO. <i>Journal of Climate</i> , 2019, 32, 3529-3556.	3.2	53
63	Warm Pool SST Variability in Relation to the Surface Energy Balance. <i>Journal of Climate</i> , 1999, 12, 1292-1305.	3.2	50
64	Is the detection of accelerated sea level rise imminent?. <i>Scientific Reports</i> , 2016, 6, 31245.	3.3	50
65	Observational constraints on atmospheric and oceanic cross-equatorial heat transports: revisiting the precipitation asymmetry problem in climate models. <i>Climate Dynamics</i> , 2016, 46, 3239-3257.	3.8	49
66	Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes. <i>Journal of Climate</i> , 2018, 31, 4309-4327.	3.2	47
67	Evaluation of Leading Modes of Climate Variability in the CMIP Archives. <i>Journal of Climate</i> , 2020, 33, 5527-5545.	3.2	47
68	Another Record: Ocean Warming Continues through 2021 despite La Niña Conditions. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 373-385.	4.3	47
69	Observation-Based Estimates of Global and Basin Ocean Meridional Heat Transport Time Series. <i>Journal of Climate</i> , 2019, 32, 4567-4583.	3.2	45
70	MONSOON Dynamical Theory. , 2003, , 1370-1386.		44
71	Climate Data Guide Spurs Discovery and Understanding. <i>Eos</i> , 2013, 94, 121-122.	0.1	44
72	Twenty-first century hydroclimate: A continually changing baseline, with more frequent extremes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2108124119.	7.1	42

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73	Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. <i>Journal of Climate</i> , 2011, 24, 1034-1052.	3.2	40
74	Exacerbation of the 2013–2016 Pan–Caribbean Drought by Anthropogenic Warming. <i>Geophysical Research Letters</i> , 2018, 45, 10619-10626.	4.0	39
75	True to Milankovitch: Glacial Inception in the New Community Climate System Model. <i>Journal of Climate</i> , 2012, 25, 2226-2239.	3.2	38
76	Evaluating simulated climate patterns from the CMIP archives using satellite and reanalysis datasets using the Climate Model Assessment Tool (CMATv1). <i>Geoscientific Model Development</i> , 2020, 13, 3627-3642.	3.6	35
77	The Response of Tropical Atmospheric Energy Budgets to ENSO*. <i>Journal of Climate</i> , 2013, 26, 4710-4724.	3.2	32
78	North American water and energy cycles. <i>Geophysical Research Letters</i> , 2013, 40, 365-369.	4.0	30
79	Applications of an Updated Atmospheric Energetics Formulation. <i>Journal of Climate</i> , 2018, 31, 6263-6279.	3.2	30
80	Investigating the Acceleration of Regional Sea Level Rise During the Satellite Altimeter Era. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086528.	4.0	30
81	Biennial Characteristics of Indian Monsoon Rainfall. <i>Journal of Climate</i> , 2004, 17, 2972-2982.	3.2	29
82	The amplifying influence of increased ocean stratification on a future year without a summer. <i>Nature Communications</i> , 2017, 8, 1236.	12.8	29
83	Persistent polar ocean warming in a strategically geoengineered climate. <i>Nature Geoscience</i> , 2018, 11, 910-914.	12.9	29
84	Spurious Late Historical–Era Warming in CESM2 Driven by Prescribed Biomass Burning Emissions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	29
85	Uncovering the Pattern of Forced Sea Level Rise in the Satellite Altimeter Record. <i>Geophysical Research Letters</i> , 2019, 46, 4844-4853.	4.0	28
86	The monsoon as a self-regulating coupled ocean–atmosphere system. <i>International Geophysics</i> , 2002, , 198-219.	0.6	27
87	Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. <i>Journal of Climate</i> , 2015, 28, 9298-9312.	3.2	26
88	Atmospheric and surface variations during westerly wind bursts in the tropical western pacific. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 899-924.	2.7	25
89	On the relationship between Indian Ocean sea surface temperature and the transition from El Niño to La Niña. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
90	Interannual Variability in Global Mean Sea Level Estimated from the CESM Large and Last Millennium Ensembles. <i>Water (Switzerland)</i> , 2016, 8, 491.	2.7	25

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91	Quantifying human contributions to past and future ocean warming and thermosteric sea level rise. <i>Environmental Research Letters</i> , 2019, 14, 074020.	5.2	24
92	Understanding Diverse Model Projections of Future Extreme El Niño. <i>Journal of Climate</i> , 2021, 34, 449-464.	3.2	24
93	Representation of Modes of Variability in Six U.S. Climate Models. <i>Journal of Climate</i> , 2020, 33, 7591-7617.	3.2	21
94	Origin of interannual variability in global mean sea level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13983-13990.	7.1	20
95	ENSO-driven energy budget perturbations in observations and CMIP models. <i>Climate Dynamics</i> , 2016, 47, 4009-4029.	3.8	19
96	Forced changes to twentieth century ENSO diversity in a last Millennium context. <i>Climate Dynamics</i> , 2019, 52, 7359-7374.	3.8	19
97	Coupled Climate Responses to Recent Australian Wildfire and COVID-19 Emissions Anomalies Estimated in CESM2. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093841.	4.0	19
98	Spatial Decomposition of Climate Feedbacks in the Community Earth System Model. <i>Journal of Climate</i> , 2013, 26, 3544-3561.	3.2	17
99	On the Relationship between Regional Ocean Heat Content and Sea Surface Height. <i>Journal of Climate</i> , 2017, 30, 9195-9211.	3.2	17
100	Importance of the Resolution of Surface Topography in Indian Monsoon Simulation. <i>Journal of Climate</i> , 2018, 31, 4879-4898.	3.2	16
101	Atmospheric Hydrology of the Anomalous 2002 Indian Summer Monsoon. <i>Monthly Weather Review</i> , 2005, 133, 2996-3014.	1.4	15
102	Recent Progress in Constraining Climate Sensitivity With Model Ensembles. <i>Current Climate Change Reports</i> , 2015, 1, 268-275.	8.6	15
103	The Influence of Volcanic Aerosol Meridional Structure on Monsoon Responses over the Last Millennium. <i>Geophysical Research Letters</i> , 2019, 46, 12350-12359.	4.0	15
104	Radiative Sensitivity to Water Vapor under All-Sky Conditions. <i>Journal of Climate</i> , 2001, 14, 2798-2807.	3.2	14
105	Energy budgets of Atlantic hurricanes and changes from 1970. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	14
106	Relationships among top-of-atmosphere radiation and atmospheric state variables in observations and CESM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,074.	3.3	14
107	Are GRACE-era Terrestrial Water Trends Driven by Anthropogenic Climate Change?. <i>Advances in Meteorology</i> , 2016, 2016, 1-9.	1.6	14
108	Land subsidence contributions to relative sea level rise at tide gauge Galveston Pier 21, Texas. <i>Scientific Reports</i> , 2020, 10, 17905.	3.3	14

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109	Changes in the flow of energy through the Earth's climate system. Meteorologische Zeitschrift, 2009, 18, 369-377.	1.0	13
110	Historical and projected low-frequency variability in the Somali Jet and Indian Summer Monsoon. Climate Dynamics, 2021, 56, 749-765.	3.8	13
111	Dynamical Characteristics of Drought in the Caribbean from Observations and Simulations. Journal of Climate, 2020, 33, 10773-10797.	3.2	13
112	Paleoclimate Constraints on the Spatiotemporal Character of Past and Future Droughts. Journal of Climate, 2020, 33, 9883-9903.	3.2	13
113	Evaluating Twenty-Year Trends in Earth's Energy Flows From Observations and Reanalyses. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	13
114	Impact of climate change on volcanic processes: current understanding and future challenges. Bulletin of Volcanology, 2022, 84, .	3.0	13
115	Past, Present, and Future Pacific Sea-Level Change. Earth's Future, 2021, 9, e2020EF001839.	6.3	11
116	Potential Influences of Volcanic Eruptions on Future Global Land Monsoon Precipitation Changes. Earth's Future, 2021, 9, e2020EF001803.	6.3	10
117	Issues in Establishing Climate Sensitivity in Recent Studies. Remote Sensing, 2011, 3, 2051-2056.	4.0	9
118	Forced Patterns of Sea Level Rise in the Community Earth System Model Large Ensemble From 1920 to 2100. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC016030.	2.6	8
119	Atmospheric and surface variations during westerly wind bursts in the tropical western Pacific. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 899-924.	2.7	7
120	Regional Energy and Water Budget of a Precipitating Atmosphere over Ocean. Journal of Climate, 2021, 34, 4189-4205.	3.2	6
121	Sea Level Rise in the CESM Large Ensemble: The Role of Individual Climate Forcings and Consequences for the Coming Decades. Journal of Climate, 2020, 33, 6911-6927.	3.2	5
122	Assessing tropical cyclone trends in the context of potential sampling biases. Geophysical Research Letters, 2006, 33, .	4.0	3
123	TROPICAL METEOROLOGY AND CLIMATE Monsoon. , 2015, , 151-164.		3
124	Tracking Earth's Energy: From El Niño to Global Warming. Space Sciences Series of ISSI, 2011, , 81-94.	0.0	3
125	Impact of the Antarctic topography on meridional energy transport and its consequential effect in the monsoon circulation. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3286-3296.	2.7	2
126	Asymmetric Response of Land Storage to ENSO Phase and Duration. Water (Switzerland), 2019, 11, 2249.	2.7	1

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127	Rainfall's oceanic underpinnings. Nature Geoscience, 2013, 6, 901-902.	12.9	0