J T Fasullo

List of Publications by Year
in descending order

127 papers	16,597 citations	25014 57 h-index	16636 123 g-index
136 all docs	136 docs citations	136 times ranked	15319 citing authors

#	Article	IF	Citations
1	Another Record: Ocean Warming Continues through 2021 despite La NiÃ±a Conditions. Advances in Atmospheric Sciences, 2022, 39, 373-385.	1.9	47
2	Spurious Late Historicalâ€Era Warming in CESM2 Driven by Prescribed Biomass Burning Emissions. Geophysical Research Letters, 2022, 49, .	1.5	29
3	Twenty-first century hydroclimate: A continually changing baseline, with more frequent extremes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2108124119.	3.3	42
4	Evaluating Twentyâ€Year Trends in Earth's Energy Flows From Observations and Reanalyses. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	13
5	Impact of climate change on volcanic processes: current understanding and future challenges. Bulletin of Volcanology, 2022, 84, .	1.1	13
6	Historical and projected low-frequency variability in the Somali Jet and Indian Summer Monsoon. Climate Dynamics, 2021, 56, 749-765.	1.7	13
7	Upper Ocean Temperatures Hit Record High in 2020. Advances in Atmospheric Sciences, 2021, 38, 523-530.	1.9	99
8	Potential Influences of Volcanic Eruptions on Future Global Land Monsoon Precipitation Changes. Earth's Future, 2021, 9, e2020EF001803.	2.4	10
9	Past, Present, and Future Pacific Seaâ€Level Change. Earth's Future, 2021, 9, e2020EF001839.	2.4	11
10	Regional Energy and Water Budget of a Precipitating Atmosphere over Ocean. Journal of Climate, 2021, 34, 4189-4205.	1.2	6
11	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.	1.0	2
12	Coupled Climate Responses to Recent Australian Wildfire and COVIDâ€19 Emissions Anomalies Estimated in CESM2. Geophysical Research Letters, 2021, 48, e2021GL093841.	1.5	19
13	Understanding Diverse Model Projections of Future Extreme El NiÃ±o. Journal of Climate, 2021, 34, 449-464.	1.2	24
14	Land subsidence contributions to relative sea level rise at tide gauge Galveston Pier 21, Texas. Scientific Reports, 2020, 10, 17905.	1.6	14
15	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.	1.0	8
16	Origin of interannual variability in global mean sea level. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13983-13990.	3.3	20
17	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	1.3	935
18	Investigating the Acceleration of Regional Sea Level Rise During the Satellite Altimeter Era. Geophysical Research Letters, 2020, 47, e2019GL086528.	1.5	30

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19	Record-Setting Ocean Warmth Continued in 2019. Advances in Atmospheric Sciences, 2020, 37, 137-142.	1.9	126
20	Understanding of Contemporary Regional Seaâ€Level Change and the Implications for the Future. Reviews of Geophysics, 2020, 58, e2019RG000672.	9.0	74
21	Representation of Modes of Variability in Six U.S. Climate Models. Journal of Climate, 2020, 33, 7591-7617.	1.2	21
22	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.	1.2	5
23	Evaluation of Leading Modes of Climate Variability in the CMIP Archives. Journal of Climate, 2020, 33, 5527-5545.	1.2	47
24	Dynamical Characteristics of Drought in the Caribbean from Observations and Simulations. Journal of Climate, 2020, 33, 10773-10797.	1.2	13
25	Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. Journal of Climate, 2020, 33, 10357-10381.	1.2	105
26	Evaluating simulated climate patterns from the CMIP archives using satellite and reanalysis datasets using the Climate Model Assessment Tool (CMATv1). Geoscientific Model Development, 2020, 13, 3627-3642.	1.3	35
27	Paleoclimate Constraints on the Spatiotemporal Character of Past and Future Droughts. Journal of Climate, 2020, 33, 9883-9903.	1.2	13
28	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). Geophysical Research Letters, 2019, 46, 8329-8337.	1.5	249
29	The Influence of Volcanic Aerosol Meridional Structure on Monsoon Responses over the Last Millennium. Geophysical Research Letters, 2019, 46, 12350-12359.	1.5	15
30	Quantifying human contributions to past and future ocean warming and thermosteric sea level rise. Environmental Research Letters, 2019, 14, 074020.	2.2	24
31	Observation-Based Estimates of Global and Basin Ocean Meridional Heat Transport Time Series. Journal of Climate, 2019, 32, 4567-4583.	1.2	45
32	Evolution of Ocean Heat Content Related to ENSO. Journal of Climate, 2019, 32, 3529-3556.	1.2	53
33	Uncovering the Pattern of Forced Sea Level Rise in the Satellite Altimeter Record. Geophysical Research Letters, 2019, 46, 4844-4853.	1.5	28
34	Asymmetric Response of Land Storage to ENSO Phase and Duration. Water (Switzerland), 2019, 11, 2249.	1.2	1
35	The Regional Hydroclimate Response to Stratospheric Sulfate Geoengineering and the Role of Stratospheric Heating. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12587-12616.	1.2	73
36	2018 Continues Record Global Ocean Warming. Advances in Atmospheric Sciences, 2019, 36, 249-252.	1.9	54

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37	Forced changes to twentieth century ENSO diversity in a last Millennium context. Climate Dynamics, 2019, 52, 7359-7374.	1.7	19
38	Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes. Journal of Climate, 2018, 31, 4309-4327.	1.2	47
39	Climate-changeâ€"driven accelerated sea-level rise detected in the altimeter era. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2022-2025.	3.3	700
40	Applications of an Updated Atmospheric Energetics Formulation. Journal of Climate, 2018, 31, 6263-6279.	1.2	30
41	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. Bulletin of the American Meteorological Society, 2018, 99, 2361-2371.	1.7	129
42	Altimeter-era emergence of the patterns of forced sea-level rise in climate models and implications for the future. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12944-12949.	3.3	61
43	Exacerbation of the 2013â€"2016 Panâ€Caribbean Drought by Anthropogenic Warming. Geophysical Research Letters, 2018, 45, 10619-10626.	1.5	39
44	Persistent polar ocean warming in a strategically geoengineered climate. Nature Geoscience, 2018, 11, 910-914.	5.4	29
45	Importance of the Resolution of Surface Topography in Indian Monsoon Simulation. Journal of Climate, 2018, 31, 4879-4898.	1.2	16
46	Hurricane Harvey Links to Ocean Heat Content and Climate Change Adaptation. Earth's Future, 2018, 6, 730-744.	2.4	218
47	ENSO's Changing Influence on Temperature, Precipitation, and Wildfire in a Warming Climate. Geophysical Research Letters, 2018, 45, 9216-9225.	1.5	118
48	Improved estimates of ocean heat content from 1960 to 2015. Science Advances, 2017, 3, e1601545.	4.7	460
49	Role of eruption season in reconciling model and proxy responses to tropical volcanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1822-1826.	3.3	101
50	Atlantic meridional heat transports computed from balancing Earth's energy locally. Geophysical Research Letters, 2017, 44, 1919-1927.	1.5	81
51	The amplifying influence of increased ocean stratification on a future year without a summer. Nature Communications, 2017, 8, 1236.	5.8	29
52	On the Relationship between Regional Ocean Heat Content and Sea Surface Height. Journal of Climate, 2017, 30, 9195-9211.	1.2	17
53	The global monsoon across time scales: Mechanisms and outstanding issues. Earth-Science Reviews, 2017, 174, 84-121.	4.0	290
54	The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations. Journal of Space Weather and Space Climate, 2017, 7, A33.	1.1	54

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55	Interannual Variability in Global Mean Sea Level Estimated from the CESM Large and Last Millennium Ensembles. Water (Switzerland), 2016, 8, 491.	1.2	25
56	Are GRACE-era Terrestrial Water Trends Driven by Anthropogenic Climate Change?. Advances in Meteorology, 2016, 2016, 1-9.	0.6	14
57	Insights into Earthâ€™s Energy Imbalance from Multiple Sources. Journal of Climate, 2016, 29, 7495-7505.	1.2	95
58	Metrics for the Diurnal Cycle of Precipitation: Toward Routine Benchmarks for Climate Models. Journal of Climate, 2016, 29, 4461-4471.	1.2	73
59	Is the detection of accelerated sea level rise imminent?. Scientific Reports, 2016, 6, 31245.	1.6	50
60	ENSO-driven energy budget perturbations in observations and CMIP models. Climate Dynamics, 2016, 47, 4009-4029.	1.7	19
61	Observational constraints on atmospheric and oceanic cross-equatorial heat transports: revisiting the precipitation asymmetry problem in climate models. Climate Dynamics, 2016, 46, 3239-3257.	1.7	49
62	Climate Variability and Change since 850 CE: An Ensemble Approach with the Community Earth System Model. Bulletin of the American Meteorological Society, 2016, 97, 735-754.	1.7	382
63	â€œEl NiÃ±o Likeâ€•Hydroclimate Responses to Last Millennium Volcanic Eruptions. Journal of Climate, 2016, 29, 2907-2921.	1.2	138
64	Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. Journal of Climate, 2015, 28, 9298-9312.	1.2	26
65	Relationships among topâ€ofâ€atmosphere radiation and atmospheric state variables in observations and CESM. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,074.	1.2	14
66	Climate variability and relationships between topâ€ofâ€atmosphere radiation and temperatures on Earth. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3642-3659.	1.2	62
67	TROPICAL METEOROLOGY AND CLIMATE | Monsoon. , 2015, , 151-164.		3
68	Recent Progress in Constraining Climate Sensitivity With Model Ensembles. Current Climate Change Reports, 2015, 1, 268-275.	2.8	15
69	Attribution of climate extreme events. Nature Climate Change, 2015, 5, 725-730.	8.1	605
70	The global monsoon across timescales: coherent variability of regional monsoons. Climate of the Past, 2014, 10, 2007-2052.	1.3	152
71	Earthâ€™s Energy Imbalance. Journal of Climate, 2014, 27, 3129-3144.	1.2	275
72	Seasonal aspects of the recent pause in surfaceÂwarming. Nature Climate Change, 2014, 4, 911-916.	8.1	276

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73	Evaluating Modes of Variability in Climate Models. Eos, 2014, 95, 453-455.	0.1	84
74	Australia's unique influence on global sea level in 2010â€“2011. Geophysical Research Letters, 2013, 40, 4368-4373.	1.5	174
75	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. Reviews of Geophysics, 2013, 51, 450-483.	9.0	367
76	Rainfall's oceanic underpinnings. Nature Geoscience, 2013, 6, 901-902.	5.4	0
77	Externally Forced and Internally Generated Decadal Climate Variability Associated with the Interdecadal Pacific Oscillation. Journal of Climate, 2013, 26, 7298-7310.	1.2	405
78	An apparent hiatus in global warming?. Earth's Future, 2013, 1, 19-32.	2.4	527
79	North American water and energy cycles. Geophysical Research Letters, 2013, 40, 365-369.	1.5	30
80	Spatial Decomposition of Climate Feedbacks in the Community Earth System Model. Journal of Climate, 2013, 26, 3544-3561.	1.2	17
81	Regional Energy and Water Cycles: Transports from Ocean to Land. Journal of Climate, 2013, 26, 7837-7851.	1.2	76
82	The Response of Tropical Atmospheric Energy Budgets to ENSO*. Journal of Climate, 2013, 26, 4710-4724.	1.2	32
83	Climate Data Guide Spurs Discovery and Understanding. Eos, 2013, 94, 121-122.	0.1	44
84	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	1.2	202
85	True to Milankovitch: Glacial Inception in the New Community Climate System Model. Journal of Climate, 2012, 25, 2226-2239.	1.2	38
86	A Less Cloudy Future: The Role of Subtropical Subsidence in Climate Sensitivity. Science, 2012, 338, 792-794.	6.0	145
87	Climate extremes and climate change: The Russian heat wave and other climate extremes of 2010. Journal of Geophysical Research, 2012, 117, .	3.3	284
88	The 2011 La NiÃ±a: So strong, the oceans fell. Geophysical Research Letters, 2012, 39, .	1.5	279
89	A mechanism for landâ€“ocean contrasts in global monsoon trends in a warming climate. Climate Dynamics, 2012, 39, 1137-1147.	1.7	62
90	Tracking Earthâ€™s Energy: From El NiÃ±o to Global Warming. Surveys in Geophysics, 2012, 33, 413-426.	2.1	91

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91	Model-based evidence of deep-ocean heat uptake during surface-temperature hiatus periods. Nature Climate Change, 2011, 1, 360-364.	8.1	610
92	Issues in Establishing Climate Sensitivity in Recent Studies. Remote Sensing, 2011, 3, 2051-2056.	1.8	9
93	Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. Journal of Climate, 2011, 24, 1034-1052.	1.2	40
94	Atmospheric Moisture Transports from Ocean to Land and Global Energy Flows in Reanalyses. Journal of Climate, 2011, 24, 4907-4924.	1.2	459
95	Tracking Earthâ€™s Energy: From El NiÃ±o to Global Warming. Space Sciences Series of ISSI, 2011, , 81-94.	0.0	3
96	Black carbon aerosols and the third polar ice cap. Atmospheric Chemistry and Physics, 2010, 10, 4559-4571.	1.9	268
97	Patterns of Indian Ocean sea-level change in a warming climate. Nature Geoscience, 2010, 3, 546-550.	5.4	203
98	Robust Landâ€“Ocean Contrasts in Energy and Water Cycle Feedbacks*. Journal of Climate, 2010, 23, 4677-4693.	1.2	61
99	Simulation of Present-Day and Twenty-First-Century Energy Budgets of the Southern Oceans. Journal of Climate, 2010, 23, 440-454.	1.2	371
100	Relationships between tropical sea surface temperature and topâ€ofâ€atmosphere radiation. Geophysical Research Letters, 2010, 37, .	1.5	66
101	On the relationship between Indian Ocean sea surface temperature and the transition from El NiÃ±o to La NiÃ±a. Journal of Geophysical Research, 2010, 115, .	3.3	25
102	Tracking Earth's Energy. Science, 2010, 328, 316-317.	6.0	163
103	Changes in the flow of energy through the Earth's climate system. Meteorologische Zeitschrift, 2009, 18, 369-377.	0.5	13
104	Earth's Global Energy Budget. Bulletin of the American Meteorological Society, 2009, 90, 311-324.	1.7	1,417
105	Global warming due to increasing absorbed solar radiation. Geophysical Research Letters, 2009, 36, .	1.5	117
106	Energy budgets of Atlantic hurricanes and changes from 1970. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	14
107	The Annual Cycle of the Energy Budget. Part II: Meridional Structures and Poleward Transports. Journal of Climate, 2008, 21, 2313-2325.	1.2	198
108	The Annual Cycle of the Energy Budget. Part I: Global Mean and Landâ€“Ocean Exchanges. Journal of Climate, 2008, 21, 2297-2312.	1.2	142

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109	An Observational Estimate of Inferred Ocean Energy Divergence. Journal of Physical Oceanography, 2008, 38, 984-999.	0.7	62
110	Estimates of the Global Water Budget and Its Annual Cycle Using Observational and Model Data. Journal of Hydrometeorology, 2007, 8, 758-769.	0.7	716
111	Water and energy budgets of hurricanes: Case studies of Ivan and Katrina. Journal of Geophysical Research, 2007, 112, .	3.3	56
112	Water and energy budgets of hurricanes and implications for climate change. Journal of Geophysical Research, 2007, 112, .	3.3	62
113	Assessing tropical cyclone trends in the context of potential sampling biases. Geophysical Research Letters, 2006, 33, .	1.5	3
114	Atmospheric Hydrology of the Anomalous 2002 Indian Summer Monsoon. Monthly Weather Review, 2005, 133, 2996-3014.	0.5	15
115	Trends and variability in column-integrated atmospheric water vapor. Climate Dynamics, 2005, 24, 741-758.	1.7	663
116	Warming of the Eurasian Landmass Is Making the Arabian Sea More Productive. Science, 2005, 308, 545-547.	6.0	212
117	A Stratified Diagnosis of the Indian Monsoonâ€"Eurasian Snow Cover Relationship. Journal of Climate, 2004, 17, 1110-1122.	1.2	123
118	Biennial Characteristics of Indian Monsoon Rainfall. Journal of Climate, 2004, 17, 2972-2982.	1.2	29
119	A Hydrological Definition of Indian Monsoon Onset and Withdrawal. Journal of Climate, 2003, 16, 3200-3211.	1.2	286
120	MONSOON | Dynamical Theory. , 2003, , 1370-1386.		44
121	On the Radiative and Dynamical Feedbacks over the Equatorial Pacific Cold Tongue. Journal of Climate, 2003, 16, 2425-2432.	1.2	53
122	The monsoon as a self-regulating coupled oceanâ€"atmosphere system. International Geophysics, 2002, , 198-219.	0.6	27
123	Hydrological Signatures Relating the Asian Summer Monsoon and ENSO. Journal of Climate, 2002, 15, 3082-3095.	1.2	64
124	Radiative Sensitivity to Water Vapor under All-Sky Conditions. Journal of Climate, 2001, 14, 2798-2807.	1.2	14
125	Atmospheric and surface variations during westerly wind bursts in the tropical western pacific. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 899-924.	1.0	25
126	Atmospheric and surface variations during westerly wind bursts in the tropical western pacific. , 2000, 126, 899.		7

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127	Warm Pool SST Variability in Relation to the Surface Energy Balance. Journal of Climate, 1999, 12, 1292-1305.	1.2	50