

J T Fasullo

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

16,597
citations

30551

56
h-index

18944

123
g-index

136
all docs

136
docs citations

136
times ranked

17367
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Another Record: Ocean Warming Continues through 2021 despite La Niña Conditions. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 373-385. | 1.9 | 47 |
| 2 | Spurious Late Historical Era Warming in CESM2 Driven by Prescribed Biomass Burning Emissions. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 29 |
| 3 | 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. | 3.3 | 42 |
| 4 | Evaluating Twenty-Year Trends in Earth's Energy Flows From Observations and Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, . | 1.2 | 13 |
| 5 | Impact of climate change on volcanic processes: current understanding and future challenges. <i>Bulletin of Volcanology</i> , 2022, 84, . | 1.1 | 13 |
| 6 | Historical and projected low-frequency variability in the Somali Jet and Indian Summer Monsoon. <i>Climate Dynamics</i> , 2021, 56, 749-765. | 1.7 | 13 |
| 7 | Upper Ocean Temperatures Hit Record High in 2020. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 523-530. | 1.9 | 99 |
| 8 | Potential Influences of Volcanic Eruptions on Future Global Land Monsoon Precipitation Changes. <i>Earth's Future</i> , 2021, 9, e2020EF001803. | 2.4 | 10 |
| 9 | Past, Present, and Future Pacific Sea Level Change. <i>Earth's Future</i> , 2021, 9, e2020EF001839. | 2.4 | 11 |
| 10 | Regional Energy and Water Budget of a Precipitating Atmosphere over Ocean. <i>Journal of Climate</i> , 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. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 3286-3296. | 1.0 | 2 |
| 12 | Coupled Climate Responses to Recent Australian Wildfire and COVID-19 Emissions Anomalies Estimated in CESM2. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093841. | 1.5 | 19 |
| 13 | Understanding Diverse Model Projections of Future Extreme El Niño. <i>Journal of Climate</i> , 2021, 34, 449-464. | 1.2 | 24 |
| 14 | Land subsidence contributions to relative sea level rise at tide gauge Galveston Pier 21, Texas. <i>Scientific Reports</i> , 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. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016030. | 1.0 | 8 |
| 16 | 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. | 3.3 | 20 |
| 17 | The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916. | 1.3 | 935 |
| 18 | Investigating the Acceleration of Regional Sea Level Rise During the Satellite Altimeter Era. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086528. | 1.5 | 30 |

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|----|--|-----|-----------|
| 19 | Record-Setting Ocean Warmth Continued in 2019. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 137-142. | 1.9 | 126 |
| 20 | Understanding of Contemporary Regional Sea Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672. | 9.0 | 74 |
| 21 | Representation of Modes of Variability in Six U.S. Climate Models. <i>Journal of Climate</i> , 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. <i>Journal of Climate</i> , 2020, 33, 6911-6927. | 1.2 | 5 |
| 23 | Evaluation of Leading Modes of Climate Variability in the CMIP Archives. <i>Journal of Climate</i> , 2020, 33, 5527-5545. | 1.2 | 47 |
| 24 | Dynamical Characteristics of Drought in the Caribbean from Observations and Simulations. <i>Journal of Climate</i> , 2020, 33, 10773-10797. | 1.2 | 13 |
| 25 | Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. <i>Journal of Climate</i> , 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). <i>Geoscientific Model Development</i> , 2020, 13, 3627-3642. | 1.3 | 35 |
| 27 | Paleoclimate Constraints on the Spatiotemporal Character of Past and Future Droughts. <i>Journal of Climate</i> , 2020, 33, 9883-9903. | 1.2 | 13 |
| 28 | High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337. | 1.5 | 249 |
| 29 | The Influence of Volcanic Aerosol Meridional Structure on Monsoon Responses over the Last Millennium. <i>Geophysical Research Letters</i> , 2019, 46, 12350-12359. | 1.5 | 15 |
| 30 | Quantifying human contributions to past and future ocean warming and thermohaline sea level rise. <i>Environmental Research Letters</i> , 2019, 14, 074020. | 2.2 | 24 |
| 31 | Observation-Based Estimates of Global and Basin Ocean Meridional Heat Transport Time Series. <i>Journal of Climate</i> , 2019, 32, 4567-4583. | 1.2 | 45 |
| 32 | Evolution of Ocean Heat Content Related to ENSO. <i>Journal of Climate</i> , 2019, 32, 3529-3556. | 1.2 | 53 |
| 33 | Uncovering the Pattern of Forced Sea Level Rise in the Satellite Altimeter Record. <i>Geophysical Research Letters</i> , 2019, 46, 4844-4853. | 1.5 | 28 |
| 34 | Asymmetric Response of Land Storage to ENSO Phase and Duration. <i>Water (Switzerland)</i> , 2019, 11, 2249. | 1.2 | 1 |
| 35 | 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. | 1.2 | 73 |
| 36 | 2018 Continues Record Global Ocean Warming. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 249-252. | 1.9 | 54 |

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|----|--|-----|-----------|
| 37 | Forced changes to twentieth century ENSO diversity in a last Millennium context. <i>Climate Dynamics</i> , 2019, 52, 7359-7374. | 1.7 | 19 |
| 38 | Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes. <i>Journal of Climate</i> , 2018, 31, 4309-4327. | 1.2 | 47 |
| 39 | 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. | 3.3 | 700 |
| 40 | Applications of an Updated Atmospheric Energetics Formulation. <i>Journal of Climate</i> , 2018, 31, 6263-6279. | 1.2 | 30 |
| 41 | CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. <i>Bulletin of the American Meteorological Society</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12944-12949. | 3.3 | 61 |
| 43 | Exacerbation of the 2013-2016 Pan-Caribbean Drought by Anthropogenic Warming. <i>Geophysical Research Letters</i> , 2018, 45, 10619-10626. | 1.5 | 39 |
| 44 | Persistent polar ocean warming in a strategically geoengineered climate. <i>Nature Geoscience</i> , 2018, 11, 910-914. | 5.4 | 29 |
| 45 | Importance of the Resolution of Surface Topography in Indian Monsoon Simulation. <i>Journal of Climate</i> , 2018, 31, 4879-4898. | 1.2 | 16 |
| 46 | Hurricane Harvey Links to Ocean Heat Content and Climate Change Adaptation. <i>Earth's Future</i> , 2018, 6, 730-744. | 2.4 | 218 |
| 47 | ENSO's Changing Influence on Temperature, Precipitation, and Wildfire in a Warming Climate. <i>Geophysical Research Letters</i> , 2018, 45, 9216-9225. | 1.5 | 118 |
| 48 | Improved estimates of ocean heat content from 1960 to 2015. <i>Science Advances</i> , 2017, 3, e1601545. | 4.7 | 460 |
| 49 | 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. | 3.3 | 101 |
| 50 | Atlantic meridional heat transports computed from balancing Earth's energy locally. <i>Geophysical Research Letters</i> , 2017, 44, 1919-1927. | 1.5 | 81 |
| 51 | The amplifying influence of increased ocean stratification on a future year without a summer. <i>Nature Communications</i> , 2017, 8, 1236. | 5.8 | 29 |
| 52 | On the Relationship between Regional Ocean Heat Content and Sea Surface Height. <i>Journal of Climate</i> , 2017, 30, 9195-9211. | 1.2 | 17 |
| 53 | The global monsoon across time scales: Mechanisms and outstanding issues. <i>Earth-Science Reviews</i> , 2017, 174, 84-121. | 4.0 | 290 |
| 54 | 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. | 1.1 | 54 |

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|----|---|-----|-----------|
| 55 | Interannual Variability in Global Mean Sea Level Estimated from the CESM Large and Last Millennium Ensembles. <i>Water</i> (Switzerland), 2016, 8, 491. | 1.2 | 25 |
| 56 | Are GRACE-era Terrestrial Water Trends Driven by Anthropogenic Climate Change?. <i>Advances in Meteorology</i> , 2016, 2016, 1-9. | 0.6 | 14 |
| 57 | Insights into Earth's Energy Imbalance from Multiple Sources. <i>Journal of Climate</i> , 2016, 29, 7495-7505. | 1.2 | 95 |
| 58 | Metrics for the Diurnal Cycle of Precipitation: Toward Routine Benchmarks for Climate Models. <i>Journal of Climate</i> , 2016, 29, 4461-4471. | 1.2 | 73 |
| 59 | Is the detection of accelerated sea level rise imminent?. <i>Scientific Reports</i> , 2016, 6, 31245. | 1.6 | 50 |
| 60 | ENSO-driven energy budget perturbations in observations and CMIP models. <i>Climate Dynamics</i> , 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. <i>Climate Dynamics</i> , 2016, 46, 3239-3257. | 1.7 | 49 |
| 62 | 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. | 1.7 | 382 |
| 63 | El Niño Like Hydroclimate Responses to Last Millennium Volcanic Eruptions. <i>Journal of Climate</i> , 2016, 29, 2907-2921. | 1.2 | 138 |
| 64 | Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. <i>Journal of Climate</i> , 2015, 28, 9298-9312. | 1.2 | 26 |
| 65 | 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. | 1.2 | 14 |
| 66 | 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. | 1.2 | 62 |
| 67 | TROPICAL METEOROLOGY AND CLIMATE Monsoon. , 2015, , 151-164. | | 3 |
| 68 | Recent Progress in Constraining Climate Sensitivity With Model Ensembles. <i>Current Climate Change Reports</i> , 2015, 1, 268-275. | 2.8 | 15 |
| 69 | Attribution of climate extreme events. <i>Nature Climate Change</i> , 2015, 5, 725-730. | 8.1 | 605 |
| 70 | The global monsoon across timescales: coherent variability of regional monsoons. <i>Climate of the Past</i> , 2014, 10, 2007-2052. | 1.3 | 152 |
| 71 | Earth's Energy Imbalance. <i>Journal of Climate</i> , 2014, 27, 3129-3144. | 1.2 | 275 |
| 72 | Seasonal aspects of the recent pause in surface warming. <i>Nature Climate Change</i> , 2014, 4, 911-916. | 8.1 | 276 |

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|----|--|-----|-----------|
| 73 | Evaluating Modes of Variability in Climate Models. <i>Eos</i> , 2014, 95, 453-455. | 0.1 | 84 |
| 74 | Australia's unique influence on global sea level in 2010–2011. <i>Geophysical Research Letters</i> , 2013, 40, 4368-4373. | 1.5 | 174 |
| 75 | 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. | 9.0 | 367 |
| 76 | Rainfall's oceanic underpinnings. <i>Nature Geoscience</i> , 2013, 6, 901-902. | 5.4 | 0 |
| 77 | Externally Forced and Internally Generated Decadal Climate Variability Associated with the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , 2013, 26, 7298-7310. | 1.2 | 405 |
| 78 | An apparent hiatus in global warming?. <i>Earth's Future</i> , 2013, 1, 19-32. | 2.4 | 527 |
| 79 | North American water and energy cycles. <i>Geophysical Research Letters</i> , 2013, 40, 365-369. | 1.5 | 30 |
| 80 | Spatial Decomposition of Climate Feedbacks in the Community Earth System Model. <i>Journal of Climate</i> , 2013, 26, 3544-3561. | 1.2 | 17 |
| 81 | Regional Energy and Water Cycles: Transports from Ocean to Land. <i>Journal of Climate</i> , 2013, 26, 7837-7851. | 1.2 | 76 |
| 82 | The Response of Tropical Atmospheric Energy Budgets to ENSO*. <i>Journal of Climate</i> , 2013, 26, 4710-4724. | 1.2 | 32 |
| 83 | Climate Data Guide Spurs Discovery and Understanding. <i>Eos</i> , 2013, 94, 121-122. | 0.1 | 44 |
| 84 | The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,036. | 1.2 | 202 |
| 85 | True to Milankovitch: Glacial Inception in the New Community Climate System Model. <i>Journal of Climate</i> , 2012, 25, 2226-2239. | 1.2 | 38 |
| 86 | A Less Cloudy Future: The Role of Subtropical Subsidence in Climate Sensitivity. <i>Science</i> , 2012, 338, 792-794. | 6.0 | 145 |
| 87 | 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 |
| 88 | The 2011 La Niña: So strong, the oceans fell. <i>Geophysical Research Letters</i> , 2012, 39, . | 1.5 | 279 |
| 89 | A mechanism for land–ocean contrasts in global monsoon trends in a warming climate. <i>Climate Dynamics</i> , 2012, 39, 1137-1147. | 1.7 | 62 |
| 90 | Tracking Earth's Energy: From El Niño to Global Warming. <i>Surveys in Geophysics</i> , 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. <i>Nature Climate Change</i> , 2011, 1, 360-364. | 8.1 | 610 |
| 92 | Issues in Establishing Climate Sensitivity in Recent Studies. <i>Remote Sensing</i> , 2011, 3, 2051-2056. | 1.8 | 9 |
| 93 | Constraints on Climate Sensitivity from Radiation Patterns in Climate Models. <i>Journal of Climate</i> , 2011, 24, 1034-1052. | 1.2 | 40 |
| 94 | Atmospheric Moisture Transports from Ocean to Land and Global Energy Flows in Reanalyses. <i>Journal of Climate</i> , 2011, 24, 4907-4924. | 1.2 | 459 |
| 95 | Tracking Earth's Energy: From El Niño to Global Warming. <i>Space Sciences Series of ISSI</i> , 2011, , 81-94. | 0.0 | 3 |
| 96 | Black carbon aerosols and the third polar ice cap. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4559-4571. | 1.9 | 268 |
| 97 | Patterns of Indian Ocean sea-level change in a warming climate. <i>Nature Geoscience</i> , 2010, 3, 546-550. | 5.4 | 203 |
| 98 | Robust Land-Ocean Contrasts in Energy and Water Cycle Feedbacks*. <i>Journal of Climate</i> , 2010, 23, 4677-4693. | 1.2 | 61 |
| 99 | Simulation of Present-Day and Twenty-First-Century Energy Budgets of the Southern Oceans. <i>Journal of Climate</i> , 2010, 23, 440-454. | 1.2 | 371 |
| 100 | Relationships between tropical sea surface temperature and top-of-atmosphere radiation. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 66 |
| 101 | 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 |
| 102 | Tracking Earth's Energy. <i>Science</i> , 2010, 328, 316-317. | 6.0 | 163 |
| 103 | Changes in the flow of energy through the Earth's climate system. <i>Meteorologische Zeitschrift</i> , 2009, 18, 369-377. | 0.5 | 13 |
| 104 | Earth's Global Energy Budget. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 311-324. | 1.7 | 1,417 |
| 105 | Global warming due to increasing absorbed solar radiation. <i>Geophysical Research Letters</i> , 2009, 36, . | 1.5 | 117 |
| 106 | Energy budgets of Atlantic hurricanes and changes from 1970. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, . | 1.0 | 14 |
| 107 | The Annual Cycle of the Energy Budget. Part II: Meridional Structures and Poleward Transports. <i>Journal of Climate</i> , 2008, 21, 2313-2325. | 1.2 | 198 |
| 108 | The Annual Cycle of the Energy Budget. Part I: Global Mean and Land-Ocean Exchanges. <i>Journal of Climate</i> , 2008, 21, 2297-2312. | 1.2 | 142 |

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|-----|--|-----|-----------|
| 109 | An Observational Estimate of Inferred Ocean Energy Divergence. <i>Journal of Physical Oceanography</i> , 2008, 38, 984-999. | 0.7 | 62 |
| 110 | Estimates of the Global Water Budget and Its Annual Cycle Using Observational and Model Data. <i>Journal of Hydrometeorology</i> , 2007, 8, 758-769. | 0.7 | 716 |
| 111 | Water and energy budgets of hurricanes: Case studies of Ivan and Katrina. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 56 |
| 112 | Water and energy budgets of hurricanes and implications for climate change. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 62 |
| 113 | Assessing tropical cyclone trends in the context of potential sampling biases. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 3 |
| 114 | Atmospheric Hydrology of the Anomalous 2002 Indian Summer Monsoon. <i>Monthly Weather Review</i> , 2005, 133, 2996-3014. | 0.5 | 15 |
| 115 | Trends and variability in column-integrated atmospheric water vapor. <i>Climate Dynamics</i> , 2005, 24, 741-758. | 1.7 | 663 |
| 116 | Warming of the Eurasian Landmass Is Making the Arabian Sea More Productive. <i>Science</i> , 2005, 308, 545-547. | 6.0 | 212 |
| 117 | A Stratified Diagnosis of the Indian Monsoon's Eurasian Snow Cover Relationship. <i>Journal of Climate</i> , 2004, 17, 1110-1122. | 1.2 | 123 |
| 118 | Biennial Characteristics of Indian Monsoon Rainfall. <i>Journal of Climate</i> , 2004, 17, 2972-2982. | 1.2 | 29 |
| 119 | A Hydrological Definition of Indian Monsoon Onset and Withdrawal. <i>Journal of Climate</i> , 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. <i>Journal of Climate</i> , 2003, 16, 2425-2432. | 1.2 | 53 |
| 122 | The monsoon as a self-regulating coupled ocean-atmosphere system. <i>International Geophysics</i> , 2002, , 198-219. | 0.6 | 27 |
| 123 | Hydrological Signatures Relating the Asian Summer Monsoon and ENSO. <i>Journal of Climate</i> , 2002, 15, 3082-3095. | 1.2 | 64 |
| 124 | Radiative Sensitivity to Water Vapor under All-Sky Conditions. <i>Journal of Climate</i> , 2001, 14, 2798-2807. | 1.2 | 14 |
| 125 | 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. | 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 |