

John C Fyfe

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

5,687
citations

87723

38
h-index

82410

72
g-index

77
all docs

77
docs citations

77
times ranked

6252
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020, 10, 277-286.	8.1	436
2	The Arctic and Antarctic oscillations and their projected changes under global warming. <i>Geophysical Research Letters</i> , 1999, 26, 1601-1604.	1.5	384
3	Decadal modulation of global surface temperature by internal climate variability. <i>Nature Climate Change</i> , 2015, 5, 555-559.	8.1	368
4	Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014, 7, 185-189.	5.4	364
5	Making sense of the early-2000s warming slowdown. <i>Nature Climate Change</i> , 2016, 6, 224-228.	8.1	333
6	Observed and simulated changes in the Southern Hemisphere surface westerly wind stress. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	253
7	Twenty-five winters of unexpected Eurasian cooling unlikely due to Arctic sea-ice loss. <i>Nature Geoscience</i> , 2016, 9, 838-842.	5.4	247
8	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021, 12, 253-293.	2.7	236
9	Empirical Orthogonal Functions: The Medium is the Message. <i>Journal of Climate</i> , 2009, 22, 6501-6514.	1.2	209
10	Large near-term projected snowpack loss over the western United States. <i>Nature Communications</i> , 2017, 8, 14996.	5.8	203
11	Simulated changes in the extratropical Southern Hemisphere winds and currents. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	191
12	Changes in winter cyclone frequencies and strengths simulated in enhanced greenhouse warming experiments: results from the models participating in the IPCC diagnostic exercise. <i>Climate Dynamics</i> , 2006, 26, 713-728.	1.7	190
13	Seasonal forecast skill of Arctic sea ice area in a dynamical forecast system. <i>Geophysical Research Letters</i> , 2013, 40, 529-534.	1.5	118
14	Has the ozone hole contributed to increased Antarctic sea ice extent?. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	115
15	The influence of recent Antarctic ice sheet retreat on simulated sea ice area trends. <i>Geophysical Research Letters</i> , 2013, 40, 4328-4332.	1.5	114
16	A pause in Southern Hemisphere circulation trends due to the Montreal Protocol. <i>Nature</i> , 2020, 579, 544-548.	13.7	106
17	Attribution of observed sea level pressure trends to greenhouse gas, aerosol, and ozone changes. <i>Geophysical Research Letters</i> , 2013, 40, 2302-2306.	1.5	86
18	Comparing Trends in the Southern Annular Mode and Surface Westerly Jet. <i>Journal of Climate</i> , 2015, 28, 8840-8859.	1.2	80

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19	Ice-free Arctic projections under the Paris Agreement. <i>Nature Climate Change</i> , 2018, 8, 404-408.	8.1	77
20	Human influence on joint changes in temperature, rainfall and continental aridity. <i>Nature Climate Change</i> , 2020, 10, 726-731.	8.1	75
21	Surface response to stratospheric aerosol changes in a coupled atmosphere-ocean model. <i>Geophysical Research Letters</i> , 2013, 40, 584-588.	1.5	73
22	The preferred structure of variability of the northern hemisphere atmospheric circulation. <i>Geophysical Research Letters</i> , 2001, 28, 1019-1022.	1.5	71
23	Tropical Pacific impacts on cooling North American winters. <i>Nature Climate Change</i> , 2016, 6, 970-974.	8.1	65
24	Remarkable separability of circulation response to Arctic sea ice loss and greenhouse gas forcing. <i>Geophysical Research Letters</i> , 2017, 44, 7955-7964.	1.5	63
25	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006788.	1.9	60
26	Increasing ENSO rainfall variability due to changes in future tropical temperature-rainfall relationship. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	58
27	The Antarctic Sea Ice Response to the Ozone Hole in Climate Models. <i>Journal of Climate</i> , 2014, 27, 1336-1342.	1.2	57
28	Observed and simulated changes in Antarctic sea ice extent over the past 50 years. <i>Geophysical Research Letters</i> , 2015, 42, 90-95.	1.5	54
29	Observed multivariable signals of late 20th and early 21st century volcanic activity. <i>Geophysical Research Letters</i> , 2015, 42, 500-509.	1.5	50
30	The role of poleward energy transport in Arctic temperature evolution. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	48
31	Response of the global carbon cycle to human-induced changes in Southern Hemisphere winds. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	47
32	Southern Ocean Response to Strengthening Winds in an Eddy-Permitting Global Climate Model. <i>Journal of Climate</i> , 2010, 23, 5332-5343.	1.2	47
33	Southern Ocean warming due to human influence. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	46
34	Significant impact of forcing uncertainty in a large ensemble of climate model simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	46
35	Drivers of past and future Southern Ocean change: Stratospheric ozone versus greenhouse gas impacts. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	45
36	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	42

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37	Human influence on extratropical Southern Hemisphere summer precipitation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	40
38	Skillful predictions of decadal trends in global mean surface temperature. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	39
39	Aerosol-driven increase in Arctic sea ice over the middle of the twentieth century. <i>Geophysical Research Letters</i> , 2017, 44, 7338-7346.	1.5	32
40	Quantifying stochastic uncertainty in detection time of human-caused climate signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19821-19827.	3.3	32
41	Phase-locked and asymmetric correlations of the wintertime atmospheric patterns with the ENSO. <i>Atmosphere - Ocean</i> , 1998, 36, 213-239.	0.6	30
42	Impact of aerosol emission controls on future Arctic sea ice cover. <i>Geophysical Research Letters</i> , 2015, 42, 8481-8488.	1.5	29
43	The United States "warming hole": Quantifying the forced aerosol response given large internal variability. <i>Geophysical Research Letters</i> , 2017, 44, 1928-1937.	1.5	29
44	Potential near-future carbon uptake overcomes losses from a large insect outbreak in British Columbia, Canada. <i>Geophysical Research Letters</i> , 2016, 43, 2590-2598.	1.5	25
45	No Impact of Anthropogenic Aerosols on Early 21st Century Global Temperature Trends in a Large Initial-Condition Ensemble. <i>Geophysical Research Letters</i> , 2018, 45, 9245-9252.	1.5	25
46	Comparing variability and trends in observed and modelled global mean surface temperature. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	24
47	Quantifying the influence of short-term emission reductions on climate. <i>Science Advances</i> , 2021, 7, .	4.7	24
48	Future Southern Ocean warming linked to projected ENSO variability. <i>Nature Climate Change</i> , 2022, 12, 649-654.	8.1	23
49	Ocean carbon uptake and storage influenced by wind bias in global climate models. <i>Nature Climate Change</i> , 2012, 2, 47-52.	8.1	22
50	Does the ocean impact the atmospheric response to stratospheric ozone depletion?. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	20
51	Modeling evidence that ozone depletion has impacted extreme precipitation in the austral summer. <i>Geophysical Research Letters</i> , 2013, 40, 4054-4059.	1.5	20
52	Decreasing subseasonal temperature variability in the northern extratropics attributed to human influence. <i>Nature Geoscience</i> , 2021, 14, 719-723.	5.4	19
53	Arctic sea ice response to the eruptions of Agung, El Chichón, and Pinatubo. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8071-8078.	1.2	17
54	Anthropogenic Aerosols Dominate Forced Multidecadal Sahel Precipitation Change through Distinct Atmospheric and Oceanic Drivers. <i>Journal of Climate</i> , 2020, 33, 10187-10204.	1.2	16

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55	Effects of time averaging on climate regimes. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	15
56	Ongoing AMOC and related sea-level and temperature changes after achieving the Paris targets. <i>Nature Climate Change</i> , 2020, 10, 672-677.	8.1	15
57	Antarctica and the Southern Ocean. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S287-S320.	1.7	15
58	Contrasting Recent Trends in Southern Hemisphere Westerlies Across Different Ocean Basins. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088890.	1.5	13
59	Anthropogenic speed-up of oceanic planetary waves. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	11
60	Northern Hemisphere circulation regimes: observed, simulated and predicted. <i>Climate Dynamics</i> , 2007, 28, 867-879.	1.7	11
61	The Ocean Carbon Response to COVID-Related Emissions Reductions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092263.	1.5	9
62	Midlatitudes unaffected by sea ice loss. <i>Nature Climate Change</i> , 2019, 9, 649-650.	8.1	8
63	Arctic polar vortex variability in the Canadian middle atmosphere model. <i>Atmosphere - Ocean</i> , 2001, 39, 457-469.	0.6	7
64	On Annular Modes and Zonal Jets. <i>Journal of Climate</i> , 2008, 21, 1963-1978.	1.2	7
65	Evolving Sahel Rainfall Response to Anthropogenic Aerosols Driven by Shifting Regional Oceanic and Emission Influences. <i>Journal of Climate</i> , 2022, , 1-27.	1.2	7
66	Arctic change reduces risk of cold extremes. <i>Science</i> , 2022, 375, 729-729.	6.0	7
67	Robust Anthropogenic Signal Identified in the Seasonal Cycle of Tropospheric Temperature. <i>Journal of Climate</i> , 2022, 35, 6075-6100.	1.2	6
68	Upper-boundary effects in a contour dynamics/surgery model of the polar stratospheric vortex. <i>Atmosphere - Ocean</i> , 1997, 35, 189-207.	0.6	4
69	The effect of ocean mixing parametrisation on the enhanced CO ₂ response of the Southern Hemisphere midlatitude jet. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	4
70	On the Detection of COVID-Driven Changes in Atmospheric Carbon Dioxide. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095396.	1.5	2
71	On the Southern Hemisphere Stratospheric Response to ENSO and Its Impacts on Tropospheric Circulation. <i>Journal of Climate</i> , 2022, 35, 1963-1981.	1.2	2