

Alexey Fedorov

List of Publications by Year in descending order

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101
papers

6,547
citations

71102

41
h-index

66911

78
g-index

103
all docs

103
docs citations

103
times ranked

5534
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction between Arctic sea ice and the Atlantic meridional overturning circulation in a warming climate. <i>Climate Dynamics</i> , 2022, 58, 1811-1827.	3.8	19
2	Poleward expansion of tropical cyclone latitudes in warming climates. <i>Nature Geoscience</i> , 2022, 15, 14-28.	12.9	63
3	Sustained mid-Pliocene warmth led to deep water formation in the North Pacific. <i>Nature Geoscience</i> , 2022, 15, 658-663.	12.9	8
4	Precipitation efficiency constraint on climate change. <i>Nature Climate Change</i> , 2022, 12, 642-648.	18.8	18
5	Equatorial modons in dry and moist-convective shallow-water systems on a rotating sphere. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	3.4	1
6	Linking the Madden–Julian Oscillation, tropical cyclones and westerly wind bursts as part of El Niño development. <i>Climate Dynamics</i> , 2021, 57, 1039-1060.	3.8	10
7	Oceanic Pathways of an Active Pacific Meridional Overturning Circulation (PMOC). <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091935.	4.0	7
8	Sensitivity of the Atlantic meridional overturning circulation and climate to tropical Indian Ocean warming. <i>Climate Dynamics</i> , 2021, 57, 2433-2451.	3.8	6
9	A stronger versus weaker Walker: understanding model differences in fast and slow tropical Pacific responses to global warming. <i>Climate Dynamics</i> , 2021, 57, 2505-2522.	3.8	18
10	Intensification of Westerly Wind Bursts Caused by the Coupling of the Madden–Julian Oscillation to SST During El Niño Onset and Development. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089395.	4.0	9
11	Persistent freshening of the Arctic Ocean and changes in the North Atlantic salinity caused by Arctic sea ice decline. <i>Climate Dynamics</i> , 2021, 57, 2995-3013.	3.8	13
12	Eastern equatorial Pacific warming delayed by aerosols and thermostat response to CO2 increase. <i>Nature Climate Change</i> , 2021, 11, 696-703.	18.8	52
13	Excitation of the Madden–Julian Oscillation in Atmospheric Adjustment to Equatorial Heating. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 3933-3950.	1.7	4
14	Pliocene decoupling of equatorial Pacific temperature and pH gradients. <i>Nature</i> , 2021, 598, 457-461.	27.8	14
15	The seesaw response of the intertropical and South Pacific convergence zones to hemispherically asymmetric thermal forcing. <i>Climate Dynamics</i> , 2020, 54, 1639-1653.	3.8	6
16	Climate impacts of a weakened Atlantic Meridional Overturning Circulation in a warming climate. <i>Science Advances</i> , 2020, 6, eaaz4876.	10.3	111
17	The Role of Westerly Wind Bursts During Different Seasons Versus Ocean Heat Recharge in the Development of Extreme El Niño in Climate Models. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088381.	4.0	12
18	Indian Ocean warming as a driver of the North Atlantic warming hole. <i>Nature Communications</i> , 2020, 11, 4785.	12.8	37

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19	The Effects of Background Zonal and Meridional Winds on ENSO in a Coupled GCM. <i>Journal of Climate</i> , 2020, 33, 2075-2091.	3.2	17
20	A Sea Surface Height Perspective on El Niño Diversity, Ocean Energetics, and Energy Damping Rates. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086742.	4.0	4
21	Time Scales and Mechanisms for the Tropical Pacific Response to Global Warming: A Tug of War between the Ocean Thermostat and Weaker Walker. <i>Journal of Climate</i> , 2020, 33, 6101-6118.	3.2	51
22	Stability of the Atlantic Meridional Overturning Circulation: A Review and Synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5336-5375.	2.6	109
23	A Positive Iris Feedback: Insights from Climate Simulations with Temperature-Sensitive Cloud-Rain Conversion. <i>Journal of Climate</i> , 2019, 32, 5305-5324.	3.2	14
24	Indian Ocean warming can strengthen the Atlantic meridional overturning circulation. <i>Nature Climate Change</i> , 2019, 9, 747-751.	18.8	70
25	Mechanisms and Impacts of a Partial AMOC Recovery Under Enhanced Freshwater Forcing. <i>Geophysical Research Letters</i> , 2019, 46, 3308-3316.	4.0	15
26	Equatorial Waves. , 2019, , 606-621.		0
27	Eastern equatorial Pacific cold tongue evolution since the late Miocene linked to extratropical climate. <i>Science Advances</i> , 2019, 5, eaau6060.	10.3	30
28	North Pacific temperature and precipitation response to El Niño-like equatorial heating: sensitivity to forcing location. <i>Climate Dynamics</i> , 2019, 53, 2731-2741.	3.8	10
29	Global Impacts of Arctic Sea Ice Loss Mediated by the Atlantic Meridional Overturning Circulation. <i>Geophysical Research Letters</i> , 2019, 46, 944-952.	4.0	51
30	The Mechanisms of the Atlantic Meridional Overturning Circulation Slowdown Induced by Arctic Sea Ice Decline. <i>Journal of Climate</i> , 2019, 32, 977-996.	3.2	68
31	Tropical cyclogenesis in warm climates simulated by a cloud-system resolving model. <i>Climate Dynamics</i> , 2019, 52, 107-127.	3.8	27
32	The extreme El Niño of 2015–2016: the role of westerly and easterly wind bursts, and preconditioning by the failed 2014 event. <i>Climate Dynamics</i> , 2019, 52, 7339-7357.	3.8	79
33	Southern Ocean Heat Uptake, Redistribution, and Storage in a Warming Climate: The Role of Meridional Overturning Circulation. <i>Journal of Climate</i> , 2018, 31, 4727-4743.	3.2	66
34	Cross-equatorial winds control El Niño diversity and change. <i>Nature Climate Change</i> , 2018, 8, 798-802.	18.8	97
35	The impacts of oceanic deep temperature perturbations in the North Atlantic on decadal climate variability and predictability. <i>Climate Dynamics</i> , 2018, 51, 2341-2357.	3.8	7
36	Evidence of the AMOC interdecadal mode related to westward propagation of temperature anomalies in CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 1517-1535.	3.8	23

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37	Regional variations in the ocean response to tropical cyclones: Ocean mixing versus low cloud suppression. <i>Geophysical Research Letters</i> , 2017, 44, 1947-1955.	4.0	5
38	The extreme El Niño of 2015–2016 and the end of global warming hiatus. <i>Geophysical Research Letters</i> , 2017, 44, 3816-3824.	4.0	141
39	Active Pacific meridional overturning circulation (PMOC) during the warm Pliocene. <i>Science Advances</i> , 2017, 3, e1700156.	10.3	55
40	Arctic sea-ice decline weakens the Atlantic Meridional Overturning Circulation. <i>Nature Climate Change</i> , 2017, 7, 604-610.	18.8	190
41	Wetter subtropics in a warmer world: Contrasting past and future hydrological cycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12888-12893.	7.1	76
42	The Eastern Subtropical Pacific Origin of the Equatorial Cold Bias in Climate Models: A Lagrangian Perspective. <i>Journal of Climate</i> , 2017, 30, 5885-5900.	3.2	28
43	Extra-tropical origin of equatorial Pacific cold bias in climate models with links to cloud albedo. <i>Climate Dynamics</i> , 2017, 49, 2093-2113.	3.8	42
44	Predictability and Decadal Variability of the North Atlantic Ocean State Evaluated from a Realistic Ocean Model. <i>Journal of Climate</i> , 2017, 30, 477-498.	3.2	8
45	AMOC sensitivity to surface buoyancy fluxes: Stronger ocean meridional heat transport with a weaker volume transport?. <i>Climate Dynamics</i> , 2016, 47, 1497-1513.	3.8	14
46	Comparing the impacts of Miocene–Pliocene changes in inter-ocean gateways on climate: Central American Seaway, Bering Strait, and Indonesia. <i>Earth and Planetary Science Letters</i> , 2016, 444, 116-130.	4.4	62
47	Projected changes of Antarctic krill habitat by the end of the 21st century. <i>Geophysical Research Letters</i> , 2016, 43, 8580-8589.	4.0	65
48	Glacial to Holocene changes in trans-Atlantic Saharan dust transport and dust-climate feedbacks. <i>Science Advances</i> , 2016, 2, e1600445.	10.3	41
49	Convective Self-Aggregation and Tropical Cyclogenesis under the Hypohydrostatic Rescaling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 525-544.	1.7	23
50	Exceptionally strong easterly wind burst stalling El Niño of 2014. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2005-2010.	7.1	141
51	The equilibrium dynamics and statistics of gravity–capillary waves. <i>Journal of Fluid Mechanics</i> , 2015, 767, 449-466.	3.4	22
52	Pliocene warmth and gradients. <i>Nature Geoscience</i> , 2015, 8, 419-420.	12.9	17
53	Unstable AMOC during glacial intervals and millennial variability: The role of mean sea ice extent. <i>Earth and Planetary Science Letters</i> , 2015, 429, 60-68.	4.4	17
54	How the AMOC affects ocean temperatures on decadal to centennial timescales: the North Atlantic versus an interhemispheric seesaw. <i>Climate Dynamics</i> , 2015, 45, 151-160.	3.8	28

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55	Tightly linked zonal and meridional sea surface temperature gradients over the past five million years. <i>Nature Geoscience</i> , 2015, 8, 975-980.	12.9	90
56	Optimal excitation of AMOC decadal variability: Links to the subpolar ocean. <i>Progress in Oceanography</i> , 2015, 132, 287-304.	3.2	23
57	The impact of westerly wind bursts and ocean initial state on the development, and diversity of El Niño events. <i>Climate Dynamics</i> , 2015, 44, 1381-1401.	3.8	147
58	Millennial Variability in an Idealized Ocean Model: Predicting the AMOC Regime Shifts. <i>Journal of Climate</i> , 2014, 27, 3551-3564.	3.2	10
59	What Controls the Mean East-West Sea Surface Temperature Gradient in the Equatorial Pacific: The Role of Cloud Albedo. <i>Journal of Climate</i> , 2014, 27, 2757-2778.	3.2	57
60	Robust ENSO across a Wide Range of Climates. <i>Journal of Climate</i> , 2014, 27, 5836-5850.	3.2	31
61	Comment on "A 12-million-year temperature history of the tropical Pacific Ocean". <i>Science</i> , 2014, 346, 1467-1467.	12.6	49
62	Lagrangian overturning and the Madden-Julian Oscillation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1344-1361.	2.7	14
63	The impact of westerly wind bursts on the diversity and predictability of El Niño events: An ocean energetics perspective. <i>Geophysical Research Letters</i> , 2014, 41, 4654-4663.	4.0	79
64	Simulating Pliocene warmth and a permanent El Niño-like state: The role of cloud albedo. <i>Paleoceanography</i> , 2014, 29, 893-910.	3.0	43
65	Simulating Pliocene warmth and a permanent El Niño-like state: The role of cloud albedo. , 2014, 29, 893.		1
66	The Leading, Interdecadal Eigenmode of the Atlantic Meridional Overturning Circulation in a Realistic Ocean Model. <i>Journal of Climate</i> , 2013, 26, 2160-2183.	3.2	64
67	Model Bias Reduction and the Limits of Oceanic Decadal Predictability: Importance of the Deep Ocean. <i>Journal of Climate</i> , 2013, 26, 3688-3707.	3.2	11
68	Patterns and mechanisms of early Pliocene warmth. <i>Nature</i> , 2013, 496, 43-49.	27.8	290
69	The Ventilated Ocean. <i>Journal of Physical Oceanography</i> , 2012, 42, 141-164.	1.7	15
70	Tidal mixing around Indonesia and the Maritime continent: Implications for paleoclimate simulations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	12
71	Stability of the Atlantic meridional overturning circulation and stratification in a zonally averaged ocean model: Effects of freshwater flux, Southern Ocean winds, and diapycnal diffusion. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1927-1943.	1.4	19
72	Climate impacts of intermittent upper ocean mixing induced by tropical cyclones. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24

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73	How well do coupled models replicate ocean energetics relevant to ENSO?. <i>Climate Dynamics</i> , 2011, 36, 2147-2158.	3.8	21
74	Tropical cyclones and permanent El Niño in the early Pliocene epoch. <i>Nature</i> , 2010, 463, 1066-1070.	27.8	217
75	Excitation of SST anomalies in the eastern equatorial Pacific by oceanic optimal perturbations. <i>Journal of Marine Research</i> , 2010, 68, 597-624.	0.3	7
76	Estimating the Diapycnal Transport Contribution to Warm Water Volume Variations in the Tropical Pacific Ocean. <i>Journal of Climate</i> , 2010, 23, 221-237.	3.2	20
77	Ocean Response to Wind Variations, Warm Water Volume, and Simple Models of ENSO in the Low-Frequency Approximation. <i>Journal of Climate</i> , 2010, 23, 3855-3873.	3.2	24
78	How Much Energy Is Transferred from the Winds to the Thermocline on ENSO Time Scales?. <i>Journal of Climate</i> , 2010, 23, 1563-1580.	3.2	32
79	Relative importance of meridional and zonal sea surface temperature gradients for the onset of the ice ages and Pliocene-Pleistocene climate evolution. <i>Paleoceanography</i> , 2010, 25, .	3.0	101
80	Understanding El Niño in Ocean-Atmosphere General Circulation Models: Progress and Challenges. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 325-340.	3.3	455
81	A Model of Strongly Forced Wind Waves. <i>Journal of Physical Oceanography</i> , 2009, 39, 2502-2522.	1.7	2
82	Greatly Expanded Tropical Warm Pool and Weakened Hadley Circulation in the Early Pliocene. <i>Science</i> , 2009, 323, 1714-1718.	12.6	256
83	Abrupt Climate Changes: How Freshening of the Northern Atlantic Affects the Thermohaline and Wind-Driven Oceanic Circulations. <i>Annual Review of Earth and Planetary Sciences</i> , 2008, 36, 33-58.	11.0	43
84	Mean energy balance in the tropical Pacific Ocean. <i>Journal of Marine Research</i> , 2008, 66, 1-23.	0.3	34
85	The Freshening of Surface Waters in High Latitudes: Effects on the Thermohaline and Wind-Driven Circulations. <i>Journal of Physical Oceanography</i> , 2007, 37, 896-907.	1.7	35
86	Net Energy Dissipation Rates in the Tropical Ocean and ENSO Dynamics. <i>Journal of Climate</i> , 2007, 20, 1108-1117.	3.2	29
87	The Pliocene Paradox (Mechanisms for a Permanent El Niño). <i>Science</i> , 2006, 312, 1485-1489.	12.6	350
88	The Effect of Salinity on the Wind-Driven Circulation and the Thermal Structure of the Upper Ocean. <i>Journal of Physical Oceanography</i> , 2004, 34, 1949-1966.	1.7	74
89	The Thermal Structure of the Upper Ocean. <i>Journal of Physical Oceanography</i> , 2004, 34, 888-902.	1.7	82
90	IS EL NIÑO SPORADIC OR CYCLIC?. <i>Annual Review of Earth and Planetary Sciences</i> , 2003, 31, 579-594.	11.0	110

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91	Role of tropics in changing the response to Milankovich forcing some three million years ago. <i>Paleoceanography</i> , 2003, 18, n/a-n/a.	3.0	177
92	How Predictable is El Niño? <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 911-920.	3.3	174
93	The response of the coupled tropical ocean-atmosphere to westerly wind bursts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1-23.	2.7	104
94	A Stability Analysis of Tropical Ocean-Atmosphere Interactions: Bridging Measurements and Theory for El Niño. <i>Journal of Climate</i> , 2001, 14, 3086-3101.	3.2	250
95	Kelvin Fronts on the Equatorial Thermocline. <i>Journal of Physical Oceanography</i> , 2000, 30, 1692-1705.	1.7	42
96	Is El Nino Changing?. <i>Science</i> , 2000, 288, 1997-2002.	12.6	624
97	An experimental and numerical study of parasitic capillary waves. <i>Physics of Fluids</i> , 1998, 10, 1315-1323.	4.0	46
98	Nonlinear gravity-capillary waves with forcing and dissipation. <i>Journal of Fluid Mechanics</i> , 1998, 354, 1-42.	3.4	79
99	Hydraulic jumps at boundaries in rotating fluids. <i>Journal of Fluid Mechanics</i> , 1996, 324, 55-82.	3.4	24
100	Propagation and Breaking of Nonlinear Kelvin Waves. <i>Journal of Physical Oceanography</i> , 1995, 25, 2518-2531.	1.7	17
101	Severe drought conditions in northern East Asia during the early Pliocene caused by weakened Pacific meridional temperature gradient. <i>Geophysical Research Letters</i> , 0, , .	4.0	1