Wonsun Park

List of Publications by Year
in descending order

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103 papers	4,904 citations	101543 36 h-index	98798 67 g-index
118 all docs	118 docs citations	118 times ranked	6067 citing authors

#	Article	IF	Citations
1	On the role of the Agulhas system in ocean circulation and climate. Nature, 2011, 472, 429-436.	27.8	470
2	Pacific origin of the abrupt increase in Indian Ocean heat content during the warming hiatus. Nature Geoscience, 2015, 8, 445-449.	12.9	327
3	North Atlantic Ocean control on surface heat flux on multidecadal timescales. Nature, 2013, 499, 464-467.	27.8	267
4	Rising Arctic Ocean temperatures cause gas hydrate destabilization and ocean acidification. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	247
5	Tropical Pacific Climate and Its Response to Global Warming in the Kiel Climate Model. Journal of Climate, 2009, 22, 71-92.	3.2	161
6	Perspectives of Northern Sea Route and Northwest Passage in the twenty-first century. Climatic Change, 2010, 100, 757-768.	3.6	142
7	A multi-model assessment of last interglacial temperatures. Climate of the Past, 2013, 9, 699-717.	3.4	134
8	The Impact of North Atlanticâ€“Arctic Multidecadal Variability on Northern Hemisphere Surface Air Temperature. Journal of Climate, 2010, 23, 5668-5677.	3.2	127
9	A multi-model comparison of Atlantic multidecadal variability. Climate Dynamics, 2014, 43, 2333-2348.	3.8	126
10	Crucial role of Black Sea warming in amplifying the 2012 Krymsk precipitation extreme. Nature Geoscience, 2015, 8, 615-619.	12.9	111
11	Multidecadal and multicentennial variability of the meridional overturning circulation. Geophysical Research Letters, 2008, 35, .	4.0	105
12	Multi-centennial variability controlled by Southern Ocean convection in the Kiel Climate Model. Climate Dynamics, 2013, 40, 2005-2022.	3.8	104
13	Natural variability of the central Pacific El NiÃ±o event on multi-centennial timescales. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	101
14	Twentieth century Walker Circulation change: data analysis and model experiments. Climate Dynamics, 2012, 38, 1757-1773.	3.8	95
15	The spatialâ€“temporal patterns of Asian summer monsoon precipitation in response to Holocene insolation change: a model-data synthesis. Quaternary Science Reviews, 2014, 85, 47-62.	3.0	94
16	Disentangling seasonal signals in Holocene climate trends by satellite-model-proxy integration. Paleoceanography, 2010, 25, n/a-n/a.	3.0	91
17	Southern Ocean Sector Centennial Climate Variability and Recent Decadal Trends. Journal of Climate, 2013, 26, 7767-7782.	3.2	89
18	On the Tropical Atlantic SST warm bias in the Kiel Climate Model. Climate Dynamics, 2011, 36, 891-906.	3.8	88

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19	Mean-state dependence of ENSO atmospheric feedbacks in climate models. Climate Dynamics, 2018, 50, 3171-3194.	3.8	79
20	Hindcast of the 1976/77 and 1998/99 Climate Shifts in the Pacific. Journal of Climate, 2013, 26, 7650-7661.	3.2	76
21	What caused the significant increase in Atlantic Ocean heat content since the mid-20th century?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	62
22	Changes in equatorial Pacific thermocline depth in response to Panamanian seaway closure: Insights from a multi-model study. Earth and Planetary Science Letters, 2012, 317-318, 76-84.	4.4	60
23	A multimodel comparison of centennial Atlantic meridional overturning circulation variability. Climate Dynamics, 2012, 38, 2377-2388.	3.8	60
24	Error compensation of ENSO atmospheric feedbacks in climate models and its influence on simulated ENSO dynamics. Climate Dynamics, 2019, 53, 155-172.	3.8	56
25	Effects of the Changjiang river discharge on sea surface warming in the Yellow and East China Seas in summer. Continental Shelf Research, 2011, 31, 15-22.	1.8	54
26	Detecting the relationship between moisture changes in arid central Asia and East Asia during the Holocene by model-proxy comparison. Quaternary Science Reviews, 2017, 176, 36-50.	3.0	54
27	Super El NiÃ±os in response to global warming in a climate model. Climatic Change, 2015, 132, 489-500.	3.6	53
28	Interannual and interdecadal variations of sea surface temperature in the East Asian Marginal Seas. Progress in Oceanography, 2000, 47, 191-204.	3.2	50
29	Two major modes of variability of the East Asian summer monsoon. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 829-841.	2.7	46
30	Impact of Poleward Moisture Transport from the North Pacific on the Acceleration of Sea Ice Loss in the Arctic since 2002. Journal of Climate, 2017, 30, 6757-6769.	3.2	45
31	Estimating horizontal diffusivity in the East Sea (Sea of Japan) and the northwest Pacific from satellite-tracked drifter data. Journal of Geophysical Research, 2000, 105, 6483-6492.	3.3	44
32	Barents Sea inflow shutdown: A new mechanism for rapid climate changes. Geophysical Research Letters, 2009, 36, .	4.0	43
33	Pacific and Atlantic multidecadal variability in the Kiel Climate Model. Geophysical Research Letters, 2010, 37, .	4.0	43
34	Is the observed NAO variability during the instrumental record unusual?. Geophysical Research Letters, 2008, 35, .	4.0	40
35	Southern Ocean deep convection as a driver of Antarctic warming events. Geophysical Research Letters, 2016, 43, 2192-2199.	4.0	40
36	Pliocene aridification of Australia caused by tectonically induced weakening of the Indonesian throughflow. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 309, 111-117.	2.3	39

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37	Improving climate model simulation of tropical Atlantic sea surface temperature: The importance of enhanced vertical atmosphere model resolution. Geophysical Research Letters, 2015, 42, 2401-2408.	4.0	39
38	The variability of the East Asian summer monsoon and its relationship to ENSO in a partially coupled climate model. Climate Dynamics, 2014, 42, 367-379.	3.8	37
39	Effects of long-term variability on projections of twenty-first century dynamic sea level. Nature Climate Change, 2015, 5, 343-347.	18.8	37
40	Evidence for added value of convectionâ€permitting models for studying changes in extreme precipitation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12500-12513.	3.3	35
41	Seasonal ENSO phase locking in the Kiel Climate Model: The importance of the equatorial cold sea surface temperature bias. Climate Dynamics, 2018, 50, 901-919.	3.8	35
42	A mechanism for Atlantic multidecadal variability in the Kiel Climate Model. Climate Dynamics, 2013, 41, 2133-2144.	3.8	34
43	Madagascar corals reveal a multidecadal signature of rainfall and river runoff since 1708. Climate of the Past, 2013, 9, 641-656.	3.4	33
44	Atmospheric response to the North Pacific enabled by daily sea surface temperature variability. Geophysical Research Letters, 2015, 42, 7732-7739.	4.0	33
45	Atlantic meridional overturning circulation and the prediction of North Atlantic sea surface temperature. Earth and Planetary Science Letters, 2014, 406, 1-6.	4.4	32
46	Atlantic Meridional Overturning Circulation response to idealized external forcing. Climate Dynamics, 2012, 39, 1709-1726.	3.8	31
47	The impact of mean state errors on equatorial <scp>A</scp>tlantic interannual variability in a climate model. Journal of Geophysical Research: Oceans, 2015, 120, 1133-1151.	2.6	31
48	Southern Ocean forcing of the North Atlantic at multi-centennial time scales in the Kiel Climate Model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 114, 39-48.	1.4	31
49	Alleviating tropical Atlantic sector biases in the Kiel climate model by enhancing horizontal and vertical atmosphere model resolution: climatology and interannual variability. Climate Dynamics, 2018, 50, 2605-2635.	3.8	31
50	The impact of sea surface temperature bias on equatorial Atlantic interannual variability in partially coupled model experiments. Geophysical Research Letters, 2015, 42, 5540-5546.	4.0	30
51	Extreme Precipitation in an Atmosphere General Circulation Model: Impact of Horizontal and Vertical Model Resolutions. Journal of Climate, 2015, 28, 1184-1205.	3.2	30
52	Role of internal variability in recent decadal to multidecadal tropical Pacific climate changes. Geophysical Research Letters, 2017, 44, 4246-4255.	4.0	30
53	Response of the hydrological cycle to orbital and greenhouse gas forcing. Geophysical Research Letters, 2010, 37, .	4.0	29
54	The use of a flow field correction technique for alleviating the North Atlantic cold bias with application to the Kiel Climate Model. Ocean Dynamics, 2015, 65, 1079-1093.	2.2	26

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55	The role of subpolar deep water formation and Nordic Seas overflows in simulated multidecadal variability of the Atlantic meridional overturning circulation. Ocean Science, 2014, 10, 227-241.	3.4	24
56	Correcting North Atlantic sea surface salinity biases in the Kiel Climate Model: influences on ocean circulation and Atlantic Multidecadal Variability. Climate Dynamics, 2016, 47, 2543-2560.	3.8	24
57	Physical controls of Southern Ocean deepâ€convection variability in CMIP5 models and the Kiel Climate Model. Geophysical Research Letters, 2017, 44, 6951-6958.	4.0	24
58	The Flexible Ocean and Climate Infrastructure version 1 (FOCI1): mean state and variability. Geoscientific Model Development, 2020, 13, 2533-2568.	3.6	24
59	Evidence for a regional warm bias in the Early Cretaceous TEX86 record. Earth and Planetary Science Letters, 2020, 539, 116184.	4.4	23
60	Sahel rainfall strength and onset improvements due to more realistic Atlantic cold tongue development in a climate model. Scientific Reports, 2018, 8, 2569.	3.3	22
61	Multi-model assessment of linkages between eastern Arctic sea-ice variability and the Euro-Atlantic atmospheric circulation in current climate. Climate Dynamics, 2017, 49, 2407-2429.	3.8	21
62	Internal and external North Atlantic Sector variability in the Kiel Climate Model. Meteorologische Zeitschrift, 2009, 18, 433-443.	1.0	20
63	Uncertainty in near-term global surface warming linked to tropical Pacific climate variability. Nature Communications, 2019, 10, 1990.	12.8	19
64	Ocean Dynamics and the Nature of Airâ€“Sea Interactions over the North Atlantic at Decadal Time Scales. Journal of Climate, 2005, 18, 982-995.	3.2	18
65	Eastâ€“west contrast of Northeast Asian summer precipitation during the Holocene. Global and Planetary Change, 2018, 170, 190-200.	3.5	18
66	Modeling the ENSO impact of orbitally induced mean state climate changes. Journal of Geophysical Research, 2012, 117, .	3.3	17
67	Solar impacts on decadal variability of tropopause temperature and lower stratospheric (LS) water vapour: a mechanism through oceanâ€“atmosphere coupling. Climate Dynamics, 2019, 52, 5585-5604.	3.8	17
68	Seychelles coral record of changes in sea surface temperature bimodality in the western Indian Ocean from the Mid-Holocene to the present. Climate Dynamics, 2014, 43, 689-708.	3.8	14
69	Sub-decadal North Atlantic Oscillation variability in observations and the Kiel Climate Model. Climate Dynamics, 2017, 48, 3475-3487.	3.8	14
70	Ensemble global warming simulations with idealized Antarctic meltwater input. Climate Dynamics, 2019, 52, 3223-3239.	3.8	14
71	Southern Ocean Decadal Variability and Predictability. Current Climate Change Reports, 2017, 3, 163-173.	8.6	13
72	State Dependence of Atmospheric Response to Extratropical North Pacific SST Anomalies. Journal of Climate, 2017, 30, 509-525.	3.2	13

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73	Impact of ENSO on East Asian winter monsoon during interglacial periods: effect of orbital forcing. Climate Dynamics, 2017, 49, 3209-3219.	3.8	12
74	Tropical circulation and hydrological cycle response to orbital forcing. Geophysical Research Letters, 2012, 39, .	4.0	10
75	Evolution of Eastern Equatorial Pacific Seasonal and Interannual Variability in Response to Orbital Forcing During the Holocene and Eemian From Model Simulations. Geophysical Research Letters, 2018, 45, 9843-9851.	4.0	10
76	Resolution dependence of CO2-induced Tropical Atlantic sector climate changes. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	10
77	Monthly to seasonal prediction of tropical Atlantic sea surface temperature with statistical models constructed from observations and data from the Kiel Climate Model. Climate Dynamics, 2020, 54, 1829-1850.	3.8	10
78	Nonlinear impact of the Arctic Oscillation on extratropical surface air temperature. Journal of Geophysical Research, 2012, 117, .	3.3	9
79	Multiyear predictability of Northern Hemisphere surface air temperature in the Kiel Climate Model. Climate Dynamics, 2016, 47, 793-804.	3.8	9
80	A Satellite Era Warming Hole in the Equatorial Atlantic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015834.	2.6	9
81	Influence of seaway changes during the Pliocene on tropical Pacific climate in the Kiel climate model: mean state, annual cycle, ENSO, and their interactions. Climate Dynamics, 2017, 48, 3725-3740.	3.8	8
82	Oxygen minimum zone variations in the tropical Pacific during the Holocene. Geophysical Research Letters, 2015, 42, 8530-8537.	4.0	7
83	Initiation of East Asia monsoon failure at the climate transition from the Medieval Climate Anomaly to the Little Ice Age. Global and Planetary Change, 2015, 128, 83-89.	3.5	7
84	Decadal Atlantic Meridional Overturning Circulation slowing events in a climate model. Climate Dynamics, 2019, 53, 1111-1124.	3.8	6
85	Investigating the Global Impacts of the Agulhas Current. Eos, 2010, 91, 109-110.	0.1	5
86	North Atlantic climate model bias influence on multiyear predictability. Earth and Planetary Science Letters, 2018, 481, 171-176.	4.4	5
87	Climatic Variability on Decadal to Century Timescales. , 2012, , 167-195.		4
88	Wind Stressâ€Induced Multiyear Predictability of Annual Extratropical North Atlantic Sea Surface Temperature Anomalies. Geophysical Research Letters, 2020, 47, e2020GL087031.	4.0	4
89	Meanâ€State Dependence of CO₂â€Forced Tropical Atlantic Sector Climate Change. Geophysical Research Letters, 2021, 48, e2021GL093803.	4.0	4
90	Simulated reduction in upwelling of tropical oxygen minimum waters in a warmer climate. Environmental Research Letters, 2011, 6, 045001.	5.2	3

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91	East Atlantic Pattern Drives Multidecadal Atlantic Meridional Overturning Circulation Variability During the Last Glacial Maximum. Geophysical Research Letters, 2019, 46, 10865-10873.	4.0	3
92	Impact of Antarctic Meltwater Forcing on East Asian Climate Under Greenhouse Warming. Geophysical Research Letters, 2020, 47, e2020GL089951.	4.0	3
93	On the Interpretation of the North Atlantic Averaged Sea Surface Temperature. Journal of Climate, 2020, 33, 6025-6045.	3.2	3
94	Influence of Model Bias on Simulating North Atlantic Sea Surface Temperature During the Midâ€Pliocene. Paleoceanography and Paleoclimatology, 2018, 33, 884-893.	2.9	2
95	Eastern equatorial Pacific sea surface temperature annual cycle in the Kiel Climate Model: simulation benefits from enhancing atmospheric resolution. Climate Dynamics, 2019, 52, 1983-2003.	3.8	2
96	Deepening of Future Aleutian Low in Ensemble Global Warming Simulations with the Kiel Climate Model. Ocean Science Journal, 2020, 55, 219-230.	1.3	2
97	Subpolar Gyre â€“ AMOC â€“ Atmosphere Interactions on Multidecadal Timescales in a Version of the Kiel Climate Model. Journal of Climate, 2021, , 1-56.	3.2	2
98	Predictability of the North Atlantic thermohaline circulation. , 0, , 342-364.		1
99	Expanding Greenland Ice Sheet Enhances Sensitivity of Plioâ€Pleistocene Climate to Obliquity Forcing in the Kiel Climate Model. Geophysical Research Letters, 2017, 44, 9957-9966.	4.0	1
100	The Centennial Variation of El NiÃ±o Impact on Atlantic Tropical Cyclones. Earth Interactions, 2018, 22, 1-15.	1.5	1
101	Correction to â€œModeling the ENSO impact of orbitally induced mean state climate changesâ€. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	0
102	Interdecadal Pacific Oscillation Drives Enhanced Greenland Surface Temperature Variability During the Last Glacial Maximum. Geophysical Research Letters, 2020, 47, e2020GL088922.	4.0	0
103	Enhanced climate variability during the last millennium recorded in alkenone sea surface temperatures of the northwest Pacific margin. Global and Planetary Change, 2021, 204, 103558.	3.5	0