

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	Subpolar Gyre â€“ AMOC â€“ Atmosphere Interactions on Multidecadal Timescales in a Version of the Kiel Climate Model. <i>Journal of Climate</i> , 2021, , 1-56.	3.2	2
2	Enhanced climate variability during the last millennium recorded in alkenone sea surface temperatures of the northwest Pacific margin. <i>Global and Planetary Change</i> , 2021, 204, 103558.	3.5	0
3	Meanâ€State Dependence of CO ₂ â€Forced Tropical Atlantic Sector Climate Change. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093803.	4.0	4
4	Impact of Antarctic Meltwater Forcing on East Asian Climate Under Greenhouse Warming. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089951.	4.0	3
5	Wind Stressâ€Induced Multiyear Predictability of Annual Extratropical North Atlantic Sea Surface Temperature Anomalies. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087031.	4.0	4
6	Resolution dependence of CO ₂ -induced Tropical Atlantic sector climate changes. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	10
7	Interdecadal Pacific Oscillation Drives Enhanced Greenland Surface Temperature Variability During the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088922.	4.0	0
8	On the Interpretation of the North Atlantic Averaged Sea Surface Temperature. <i>Journal of Climate</i> , 2020, 33, 6025-6045.	3.2	3
9	Deepening of Future Aleutian Low in Ensemble Global Warming Simulations with the Kiel Climate Model. <i>Ocean Science Journal</i> , 2020, 55, 219-230.	1.3	2
10	Monthly to seasonal prediction of tropical Atlantic sea surface temperature with statistical models constructed from observations and data from the Kiel Climate Model. <i>Climate Dynamics</i> , 2020, 54, 1829-1850.	3.8	10
11	Evidence for a regional warm bias in the Early Cretaceous TEX86 record. <i>Earth and Planetary Science Letters</i> , 2020, 539, 116184.	4.4	23
12	A Satellite Era Warming Hole in the Equatorial Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015834.	2.6	9
13	The Flexible Ocean and Climate Infrastructure version 1 (FOCI1): mean state and variability. <i>Geoscientific Model Development</i> , 2020, 13, 2533-2568.	3.6	24
14	Ensemble global warming simulations with idealized Antarctic meltwater input. <i>Climate Dynamics</i> , 2019, 52, 3223-3239.	3.8	14
15	Uncertainty in near-term global surface warming linked to tropical Pacific climate variability. <i>Nature Communications</i> , 2019, 10, 1990.	12.8	19
16	Decadal Atlantic Meridional Overturning Circulation slowing events in a climate model. <i>Climate Dynamics</i> , 2019, 53, 1111-1124.	3.8	6
17	East Atlantic Pattern Drives Multidecadal Atlantic Meridional Overturning Circulation Variability During the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2019, 46, 10865-10873.	4.0	3
18	Eastern equatorial Pacific sea surface temperature annual cycle in the Kiel Climate Model: simulation benefits from enhancing atmospheric resolution. <i>Climate Dynamics</i> , 2019, 52, 1983-2003.	3.8	2

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19	Error compensation of ENSO atmospheric feedbacks in climate models and its influence on simulated ENSO dynamics. <i>Climate Dynamics</i> , 2019, 53, 155-172.	3.8	56
20	Solar impacts on decadal variability of tropopause temperature and lower stratospheric (LS) water vapour: a mechanism through ocean-atmosphere coupling. <i>Climate Dynamics</i> , 2019, 52, 5585-5604.	3.8	17
21	Sahel rainfall strength and onset improvements due to more realistic Atlantic cold tongue development in a climate model. <i>Scientific Reports</i> , 2018, 8, 2569.	3.3	22
22	Seasonal ENSO phase locking in the Kiel Climate Model: The importance of the equatorial cold sea surface temperature bias. <i>Climate Dynamics</i> , 2018, 50, 901-919.	3.8	35
23	Mean-state dependence of ENSO atmospheric feedbacks in climate models. <i>Climate Dynamics</i> , 2018, 50, 3171-3194.	3.8	79
24	North Atlantic climate model bias influence on multiyear predictability. <i>Earth and Planetary Science Letters</i> , 2018, 481, 171-176.	4.4	5
25	Alleviating tropical Atlantic sector biases in the Kiel climate model by enhancing horizontal and vertical atmosphere model resolution: climatology and interannual variability. <i>Climate Dynamics</i> , 2018, 50, 2605-2635.	3.8	31
26	Influence of Model Bias on Simulating North Atlantic Sea Surface Temperature During the Mid-Pliocene. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 884-893.	2.9	2
27	East-west contrast of Northeast Asian summer precipitation during the Holocene. <i>Global and Planetary Change</i> , 2018, 170, 190-200.	3.5	18
28	Evolution of Eastern Equatorial Pacific Seasonal and Interannual Variability in Response to Orbital Forcing During the Holocene and Eemian From Model Simulations. <i>Geophysical Research Letters</i> , 2018, 45, 9843-9851.	4.0	10
29	The Centennial Variation of El Niño Impact on Atlantic Tropical Cyclones. <i>Earth Interactions</i> , 2018, 22, 1-15.	1.5	1
30	Impact of ENSO on East Asian winter monsoon during interglacial periods: effect of orbital forcing. <i>Climate Dynamics</i> , 2017, 49, 3209-3219.	3.8	12
31	Role of internal variability in recent decadal to multidecadal tropical Pacific climate changes. <i>Geophysical Research Letters</i> , 2017, 44, 4246-4255.	4.0	30
32	Impact of Poleward Moisture Transport from the North Pacific on the Acceleration of Sea Ice Loss in the Arctic since 2002. <i>Journal of Climate</i> , 2017, 30, 6757-6769.	3.2	45
33	Expanding Greenland Ice Sheet Enhances Sensitivity of Pliocene Pleistocene Climate to Obliquity Forcing in the Kiel Climate Model. <i>Geophysical Research Letters</i> , 2017, 44, 9957-9966.	4.0	1
34	Detecting the relationship between moisture changes in arid central Asia and East Asia during the Holocene by model-proxy comparison. <i>Quaternary Science Reviews</i> , 2017, 176, 36-50.	3.0	54
35	Southern Ocean Decadal Variability and Predictability. <i>Current Climate Change Reports</i> , 2017, 3, 163-173.	8.6	13
36	State Dependence of Atmospheric Response to Extratropical North Pacific SST Anomalies. <i>Journal of Climate</i> , 2017, 30, 509-525.	3.2	13

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37	Influence of seaway changes during the Pliocene on tropical Pacific climate in the Kiel climate model: mean state, annual cycle, ENSO, and their interactions. <i>Climate Dynamics</i> , 2017, 48, 3725-3740.	3.8	8
38	Sub-decadal North Atlantic Oscillation variability in observations and the Kiel Climate Model. <i>Climate Dynamics</i> , 2017, 48, 3475-3487.	3.8	14
39	Multi-model assessment of linkages between eastern Arctic sea-ice variability and the Euro-Atlantic atmospheric circulation in current climate. <i>Climate Dynamics</i> , 2017, 49, 2407-2429.	3.8	21
40	Physical controls of Southern Ocean deep convection variability in CMIP5 models and the Kiel Climate Model. <i>Geophysical Research Letters</i> , 2017, 44, 6951-6958.	4.0	24
41	Southern Ocean deep convection as a driver of Antarctic warming events. <i>Geophysical Research Letters</i> , 2016, 43, 2192-2199.	4.0	40
42	Correcting North Atlantic sea surface salinity biases in the Kiel Climate Model: influences on ocean circulation and Atlantic Multidecadal Variability. <i>Climate Dynamics</i> , 2016, 47, 2543-2560.	3.8	24
43	Multiyear predictability of Northern Hemisphere surface air temperature in the Kiel Climate Model. <i>Climate Dynamics</i> , 2016, 47, 793-804.	3.8	9
44	Evidence for added value of convection-permitting models for studying changes in extreme precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12500-12513.	3.3	35
45	The impact of mean state errors on equatorial Atlantic interannual variability in a climate model. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1133-1151.	2.6	31
46	Atmospheric response to the North Pacific enabled by daily sea surface temperature variability. <i>Geophysical Research Letters</i> , 2015, 42, 7732-7739.	4.0	33
47	Improving climate model simulation of tropical Atlantic sea surface temperature: The importance of enhanced vertical atmosphere model resolution. <i>Geophysical Research Letters</i> , 2015, 42, 2401-2408.	4.0	39
48	Oxygen minimum zone variations in the tropical Pacific during the Holocene. <i>Geophysical Research Letters</i> , 2015, 42, 8530-8537.	4.0	7
49	The impact of sea surface temperature bias on equatorial Atlantic interannual variability in partially coupled model experiments. <i>Geophysical Research Letters</i> , 2015, 42, 5540-5546.	4.0	30
50	Pacific origin of the abrupt increase in Indian Ocean heat content during the warming hiatus. <i>Nature Geoscience</i> , 2015, 8, 445-449.	12.9	327
51	Effects of long-term variability on projections of twenty-first century dynamic sea level. <i>Nature Climate Change</i> , 2015, 5, 343-347.	18.8	37
52	Extreme Precipitation in an Atmosphere General Circulation Model: Impact of Horizontal and Vertical Model Resolutions. <i>Journal of Climate</i> , 2015, 28, 1184-1205.	3.2	30
53	Crucial role of Black Sea warming in amplifying the 2012 Krymsk precipitation extreme. <i>Nature Geoscience</i> , 2015, 8, 615-619.	12.9	111
54	Initiation of East Asia monsoon failure at the climate transition from the Medieval Climate Anomaly to the Little Ice Age. <i>Global and Planetary Change</i> , 2015, 128, 83-89.	3.5	7

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55	The use of a flow field correction technique for alleviating the North Atlantic cold bias with application to the Kiel Climate Model. <i>Ocean Dynamics</i> , 2015, 65, 1079-1093.	2.2	26
56	Super El Niños in response to global warming in a climate model. <i>Climatic Change</i> , 2015, 132, 489-500.	3.6	53
57	Southern Ocean forcing of the North Atlantic at multi-centennial time scales in the Kiel Climate Model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 114, 39-48.	1.4	31
58	The role of subpolar deep water formation and Nordic Seas overflows in simulated multidecadal variability of the Atlantic meridional overturning circulation. <i>Ocean Science</i> , 2014, 10, 227-241.	3.4	24
59	The variability of the East Asian summer monsoon and its relationship to ENSO in a partially coupled climate model. <i>Climate Dynamics</i> , 2014, 42, 367-379.	3.8	37
60	Seychelles coral record of changes in sea surface temperature bimodality in the western Indian Ocean from the Mid-Holocene to the present. <i>Climate Dynamics</i> , 2014, 43, 689-708.	3.8	14
61	A multi-model comparison of Atlantic multidecadal variability. <i>Climate Dynamics</i> , 2014, 43, 2333-2348.	3.8	126
62	The spatial-temporal patterns of Asian summer monsoon precipitation in response to Holocene insolation change: a model-data synthesis. <i>Quaternary Science Reviews</i> , 2014, 85, 47-62.	3.0	94
63	Atlantic meridional overturning circulation and the prediction of North Atlantic sea surface temperature. <i>Earth and Planetary Science Letters</i> , 2014, 406, 1-6.	4.4	32
64	A mechanism for Atlantic multidecadal variability in the Kiel Climate Model. <i>Climate Dynamics</i> , 2013, 41, 2133-2144.	3.8	34
65	Multi-centennial variability controlled by Southern Ocean convection in the Kiel Climate Model. <i>Climate Dynamics</i> , 2013, 40, 2005-2022.	3.8	104
66	Southern Ocean Sector Centennial Climate Variability and Recent Decadal Trends. <i>Journal of Climate</i> , 2013, 26, 7767-7782.	3.2	89
67	Hindcast of the 1976/77 and 1998/99 Climate Shifts in the Pacific. <i>Journal of Climate</i> , 2013, 26, 7650-7661.	3.2	76
68	North Atlantic Ocean control on surface heat flux on multidecadal timescales. <i>Nature</i> , 2013, 499, 464-467.	27.8	267
69	A multi-model assessment of last interglacial temperatures. <i>Climate of the Past</i> , 2013, 9, 699-717.	3.4	134
70	Madagascar corals reveal a multidecadal signature of rainfall and river runoff since 1708. <i>Climate of the Past</i> , 2013, 9, 641-656.	3.4	33
71	Climatic Variability on Decadal to Century Timescales. , 2012, , 167-195.		4
72	Atlantic Meridional Overturning Circulation response to idealized external forcing. <i>Climate Dynamics</i> , 2012, 39, 1709-1726.	3.8	31

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73	Changes in equatorial Pacific thermocline depth in response to Panamanian seaway closure: Insights from a multi-model study. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 76-84.	4.4	60
74	Modeling the ENSO impact of orbitally induced mean state climate changes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
75	Tropical circulation and hydrological cycle response to orbital forcing. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	10
76	Correction to "Modeling the ENSO impact of orbitally induced mean state climate changes". <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	0
77	Nonlinear impact of the Arctic Oscillation on extratropical surface air temperature. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
78	Twentieth century Walker Circulation change: data analysis and model experiments. <i>Climate Dynamics</i> , 2012, 38, 1757-1773.	3.8	95
79	A multimodel comparison of centennial Atlantic meridional overturning circulation variability. <i>Climate Dynamics</i> , 2012, 38, 2377-2388.	3.8	60
80	Natural variability of the central Pacific El Niño event on multi-centennial timescales. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	101
81	Rising Arctic Ocean temperatures cause gas hydrate destabilization and ocean acidification. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	247
82	What caused the significant increase in Atlantic Ocean heat content since the mid-20th century?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	62
83	Pliocene aridification of Australia caused by tectonically induced weakening of the Indonesian throughflow. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 309, 111-117.	2.3	39
84	On the role of the Agulhas system in ocean circulation and climate. <i>Nature</i> , 2011, 472, 429-436.	27.8	470
85	Effects of the Changjiang river discharge on sea surface warming in the Yellow and East China Seas in summer. <i>Continental Shelf Research</i> , 2011, 31, 15-22.	1.8	54
86	On the Tropical Atlantic SST warm bias in the Kiel Climate Model. <i>Climate Dynamics</i> , 2011, 36, 891-906.	3.8	88
87	Simulated reduction in upwelling of tropical oxygen minimum waters in a warmer climate. <i>Environmental Research Letters</i> , 2011, 6, 045001.	5.2	3
88	Perspectives of Northern Sea Route and Northwest Passage in the twenty-first century. <i>Climatic Change</i> , 2010, 100, 757-768.	3.6	142
89	Two major modes of variability of the East Asian summer monsoon. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 829-841.	2.7	46
90	The Impact of North Atlantic "Arctic Multidecadal Variability on Northern Hemisphere Surface Air Temperature. <i>Journal of Climate</i> , 2010, 23, 5668-5677.	3.2	127

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91	Disentangling seasonal signals in Holocene climate trends by satellite-model-proxy integration. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	91
92	Investigating the Global Impacts of the Agulhas Current. <i>Eos</i> , 2010, 91, 109-110.	0.1	5
93	Response of the hydrological cycle to orbital and greenhouse gas forcing. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29
94	Pacific and Atlantic multidecadal variability in the Kiel Climate Model. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	43
95	Tropical Pacific Climate and Its Response to Global Warming in the Kiel Climate Model. <i>Journal of Climate</i> , 2009, 22, 71-92.	3.2	161
96	Barents Sea inflow shutdown: A new mechanism for rapid climate changes. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	43
97	Internal and external North Atlantic Sector variability in the Kiel Climate Model. <i>Meteorologische Zeitschrift</i> , 2009, 18, 433-443.	1.0	20
98	Is the observed NAO variability during the instrumental record unusual?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	40
99	Multidecadal and multicentennial variability of the meridional overturning circulation. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	105
100	Ocean Dynamics and the Nature of Air-Sea Interactions over the North Atlantic at Decadal Time Scales. <i>Journal of Climate</i> , 2005, 18, 982-995.	3.2	18
101	Interannual and interdecadal variations of sea surface temperature in the East Asian Marginal Seas. <i>Progress in Oceanography</i> , 2000, 47, 191-204.	3.2	50
102	Estimating horizontal diffusivity in the East Sea (Sea of Japan) and the northwest Pacific from satellite-tracked drifter data. <i>Journal of Geophysical Research</i> , 2000, 105, 6483-6492.	3.3	44
103	Predictability of the North Atlantic thermohaline circulation. , 0, , 342-364.		1