

Sang-Ki Lee

List of Publications by Year in descending order

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88
papers

4,522
citations

117571

34
h-index

110317

64
g-index

97
all docs

97
docs citations

97
times ranked

4899
citing authors

#	ARTICLE	IF	CITATIONS
1	A global perspective on CMIP5 climate model biases. <i>Nature Climate Change</i> , 2014, 4, 201-205.	8.1	499
2	Pacific origin of the abrupt increase in Indian Ocean heat content during the warming hiatus. <i>Nature Geoscience</i> , 2015, 8, 445-449.	5.4	327
3	Climate Response of the Equatorial Pacific to Global Warming. <i>Journal of Climate</i> , 2009, 22, 4873-4892.	1.2	260
4	Influences of the Atlantic Warm Pool on Western Hemisphere Summer Rainfall and Atlantic Hurricanes. <i>Journal of Climate</i> , 2006, 19, 3011-3028.	1.2	249
5	Climate Response to Anomalously Large and Small Atlantic Warm Pools during the Summer. <i>Journal of Climate</i> , 2008, 21, 2437-2450.	1.2	153
6	Multidecadal Covariability of North Atlantic Sea Surface Temperature, African Dust, Sahel Rainfall, and Atlantic Hurricanes. <i>Journal of Climate</i> , 2012, 25, 5404-5415.	1.2	144
7	The record-breaking cold temperatures during the winter of 2009/2010 in the Northern Hemisphere. <i>Atmospheric Science Letters</i> , 2010, 11, 161-168.	0.8	121
8	Atlantic warm pool, Caribbean low-level jet, and their potential impact on Atlantic hurricanes. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	113
9	A Simple Atmospheric Model of the Local and Teleconnection Responses to Tropical Heating Anomalies. <i>Journal of Climate</i> , 2009, 22, 272-284.	1.2	111
10	Atlantic Warm Pool acting as a link between Atlantic Multidecadal Oscillation and Atlantic tropical cyclone activity. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	110
11	Mean Climate Controls on the Simulated Response of ENSO to Increasing Greenhouse Gases. <i>Journal of Climate</i> , 2012, 25, 7399-7420.	1.2	110
12	Impact of the Atlantic Warm Pool on the Summer Climate of the Western Hemisphere. <i>Journal of Climate</i> , 2007, 20, 5021-5040.	1.2	94
13	Predicting the effects of climate change on bluefin tuna (<i>Thunnus thynnus</i>) spawning habitat in the Gulf of Mexico. <i>ICES Journal of Marine Science</i> , 2011, 68, 1051-1062.	1.2	90
14	Why do some El Niños have no impact on tropical North Atlantic SST?. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	87
15	Downscaled projections of Caribbean coral bleaching that can inform conservation planning. <i>Global Change Biology</i> , 2015, 21, 3389-3401.	4.2	77
16	Covariability of tropical cyclones in the North Atlantic and the eastern North Pacific. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	68
17	Impact of the Atlantic warm pool on United States landfalling hurricanes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	67
18	Is There an Optimal ENSO Pattern That Enhances Large-Scale Atmospheric Processes Conducive to Tornado Outbreaks in the United States?. <i>Journal of Climate</i> , 2013, 26, 1626-1642.	1.2	66

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19	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.	1.5	62
20	Spring persistence, transition, and resurgence of El Niño. <i>Geophysical Research Letters</i> , 2014, 41, 8578-8585.	1.5	57
21	Potential impact of climate change on the Intra-Americas Sea: Part-1. A dynamic downscaling of the CMIP5 model projections. <i>Journal of Marine Systems</i> , 2015, 148, 56-69.	0.9	57
22	US regional tornado outbreaks and their links to spring ENSO phases and North Atlantic SST variability. <i>Environmental Research Letters</i> , 2016, 11, 044008.	2.2	56
23	On the Fragile Relationship Between El Niño and California Rainfall. <i>Geophysical Research Letters</i> , 2018, 45, 907-915.	1.5	56
24	How are large western hemisphere warm pools formed?. <i>Progress in Oceanography</i> , 2006, 70, 346-365.	1.5	53
25	Interhemispheric Influence of the Atlantic Warm Pool on the Southeastern Pacific. <i>Journal of Climate</i> , 2010, 23, 404-418.	1.2	52
26	Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. <i>Nature Climate Change</i> , 2018, 8, 414-420.	8.1	52
27	Upper ocean response to Hurricane Gonzalo (2014): Salinity effects revealed by targeted and sustained underwater glider observations. <i>Geophysical Research Letters</i> , 2015, 42, 7131-7138.	1.5	49
28	Decade-long deep-ocean warming detected in the subtropical South Pacific. <i>Geophysical Research Letters</i> , 2017, 44, 927-936.	1.5	46
29	Mechanisms of aerosol-forced AMOC variability in a state of the art climate model. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2087-2096.	1.0	44
30	The Relationship of Weddell Polynya and Open-Ocean Deep Convection to the Southern Hemisphere Westerlies. <i>Journal of Physical Oceanography</i> , 2014, 44, 694-713.	0.7	44
31	Changes in the relationship in the SST variability between the tropical Pacific and the North Pacific across the 1998/1999 regime shift. <i>Geophysical Research Letters</i> , 2015, 42, 7171-7178.	1.5	42
32	Impacts of non-canonical El Niño patterns on Atlantic hurricane activity. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	39
33	Springtime ENSO phase evolution and its relation to rainfall in the continental U.S.. <i>Geophysical Research Letters</i> , 2014, 41, 1673-1680.	1.5	39
34	Interannual Sea Level Variability Along the Southeastern Seaboard of the United States in Relation to the Gyre-scale Heat Divergence in the North Atlantic. <i>Geophysical Research Letters</i> , 2019, 46, 7481-7490.	1.5	39
35	Potential impact of climate change on the Intra-Americas Sea: Part 2. Implications for Atlantic bluefin tuna and skipjack tuna adult and larval habitats. <i>Journal of Marine Systems</i> , 2015, 148, 1-13.	0.9	38
36	Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2016, 29, 1831-1851.	1.2	38

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37	Interhemispheric Influence of the Northern Summer Monsoons on Southern Subtropical Anticyclones. <i>Journal of Climate</i> , 2013, 26, 10193-10204.	1.2	37
38	Global warming and United States landfalling hurricanes. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	33
39	Significant reduction of the Loop Current in the 21st century and its impact on the Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
40	Replicating the 1970s' Weddell Polynya using a coupled ocean-sea ice model with reanalysis surface flux fields. <i>Geophysical Research Letters</i> , 2015, 42, 5411-5418.	1.5	33
41	ENSO-induced co-variability of Salinity, Plankton Biomass and Coastal Currents in the Northern Gulf of Mexico. <i>Scientific Reports</i> , 2019, 9, 178.	1.6	33
42	Unprecedented reduction and quick recovery of the South Indian Ocean heat content and sea level in 2014-2018. <i>Science Advances</i> , 2020, 6, .	4.7	33
43	On the Spatiotemporal Diversity of Atlantic Niño and Associated Rainfall Variability Over West Africa and South America. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087108.	1.5	33
44	What Drives the Seasonal Onset and Decay of the Western Hemisphere Warm Pool?. <i>Journal of Climate</i> , 2007, 20, 2133-2146.	1.2	32
45	Seasonal patterns in phytoplankton biomass across the northern and deep Gulf of Mexico: a numerical model study. <i>Biogeosciences</i> , 2018, 15, 3561-3576.	1.3	32
46	Atlantic Warm Pool Variability in the CMIP5 Simulations. <i>Journal of Climate</i> , 2013, 26, 5315-5336.	1.2	30
47	Interhemispheric Teleconnections from Tropical Heat Sources in Intermediate and Simple Models. <i>Journal of Climate</i> , 2014, 27, 684-697.	1.2	30
48	Cold-Season Arctic Amplification Driven by Arctic Ocean-Mediated Seasonal Energy Transfer. <i>Earth's Future</i> , 2021, 9, e2020EF001898.	2.4	30
49	On the impact of central Pacific warming events on Atlantic tropical storm activity. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	28
50	The Heat Balance of the Western Hemisphere Warm Pool. <i>Journal of Climate</i> , 2005, 18, 2662-2681.	1.2	27
51	Response of Freshwater Flux and Sea Surface Salinity to Variability of the Atlantic Warm Pool. <i>Journal of Climate</i> , 2013, 26, 1249-1267.	1.2	26
52	Remote influence of Interdecadal Pacific Oscillation on the South Atlantic meridional overturning circulation variability. <i>Geophysical Research Letters</i> , 2016, 43, 8250-8258.	1.5	25
53	Future Impact of Differential Interbasin Ocean Warming on Atlantic Hurricanes. <i>Journal of Climate</i> , 2011, 24, 1264-1275.	1.2	24
54	Projections of future habitat use by Atlantic bluefin tuna: mechanistic vs. correlative distribution models. <i>ICES Journal of Marine Science</i> , 2017, 74, 698-716.	1.2	23

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55	Projections of faster onset and slower decay of El Niño in the 21st century. <i>Nature Communications</i> , 2022, 13, 1915.	5.8	22
56	Impact of Assimilating Underwater Glider Data on Hurricane Gonzalo (2014) Forecasts. <i>Weather and Forecasting</i> , 2017, 32, 1143-1159.	0.5	20
57	Delayed Advective Oscillation of the Atlantic Thermohaline Circulation. <i>Journal of Climate</i> , 2010, 23, 1254-1261.	1.2	19
58	Atlantic Warm-Pool Variability in the IPCC AR4 CGCM Simulations. <i>Journal of Climate</i> , 2012, 25, 5612-5628.	1.2	19
59	Wind-driven ocean dynamics impact on the contrasting sea ice trends around West Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4413-4430.	1.0	19
60	Global Meridional Overturning Circulation Inferred From a Data-Constrained Ocean & Sea Ice Model. <i>Geophysical Research Letters</i> , 2019, 46, 1521-1530.	1.5	19
61	Remote effect of the model cold bias in the tropical North Atlantic on the warm bias in the tropical southeastern Pacific. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1016-1026.	1.3	18
62	Assimilating 20 years of Atlantic XBT data into HYCOM: a first look. <i>Ocean Modelling</i> , 2004, 7, 183-210.	1.0	17
63	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6342-6358.	1.2	16
64	Potential role of Atlantic Warm Pool-induced freshwater forcing in the Atlantic Meridional Overturning Circulation: ocean-sea ice model simulations. <i>Climate Dynamics</i> , 2014, 43, 553-574.	1.7	15
65	Seasonal patterns of surface inorganic carbon system variables in the Gulf of Mexico inferred from a regional high-resolution ocean biogeochemical model. <i>Biogeosciences</i> , 2020, 17, 1685-1700.	1.3	15
66	Antarctic sea-ice expansion and Southern Ocean cooling linked to tropical variability. <i>Nature Climate Change</i> , 2022, 12, 461-468.	8.1	15
67	Tropical Atlantic Decadal Oscillation and Its Potential Impact on the Equatorial Atmosphere-Ocean Dynamics: A Simple Model Study. <i>Journal of Physical Oceanography</i> , 2008, 38, 193-212.	0.7	14
68	Ocean general circulation model sensitivity experiments on the annual cycle of Western Hemisphere Warm Pool. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
69	Contributions of the atmosphere-land and ocean-sea ice model components to the tropical Atlantic SST bias in CESM1. <i>Ocean Modelling</i> , 2015, 96, 280-290.	1.0	13
70	Increasing River Alkalinity Slows Ocean Acidification in the Northern Gulf of Mexico. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	13
71	Pacific Mean-State Control of Atlantic Multidecadal Oscillation-El Niño Relationship. <i>Journal of Climate</i> , 2020, 33, 4273-4291.	1.2	12
72	Slope Control in Western Boundary Currents. <i>Journal of Physical Oceanography</i> , 2001, 31, 3349-3360.	0.7	11

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73	Is Hurricane Activity in One Basin Tied to Another?. Eos, 2010, 91, 93-94.	0.1	11
74	Warm water formation and escape in the upper tropical Atlantic Ocean: 2. A numerical model study. Journal of Geophysical Research, 1999, 104, 29573-29590.	3.3	8
75	Inhomogeneous influence of the Atlantic warm pool on United States precipitation. Atmospheric Science Letters, 2015, 16, 63-69.	0.8	8
76	Instability waves in the Gulf Stream front and its thermocline layer. Journal of Marine Research, 1994, 52, 837-863.	0.3	7
77	Warm water formation and escape in the upper tropical Atlantic Ocean: 1. A literature review. Journal of Geophysical Research, 1999, 104, 29561-29571.	3.3	7
78	Maddenâ€“Julian Oscillationâ€“Induced Suppression of Northeast Pacific Convection Increases U.S. Tornadogenesis. Journal of Climate, 2020, 33, 4927-4939.	1.2	7
79	On the structure of supercritical western boundary currents. Dynamics of Atmospheres and Oceans, 2001, 33, 303-319.	0.7	6
80	On the Role of Pacificâ€“Atlantic SST Contrast and Associated Caribbean Sea Convection in Augustâ€“October U.S. Regional Rainfall Variability. Geophysical Research Letters, 2020, 47, e2020GL087736.	1.5	6
81	Pantropical Response to Global Warming and the Emergence of a La NiÃ±aâ€“Like Mean State Trend. Geophysical Research Letters, 2020, 47, e2019GL086497.	1.5	6
82	A Seasonal Probabilistic Outlook for Tornadoes (SPOTter) in the Contiguous United States Based on the Leading Patterns of Large-Scale Atmospheric Anomalies. Monthly Weather Review, 2021, 149, 901-919.	0.5	5
83	Interannual Variability of the South Atlantic Ocean Heat Content in a Highâ€“Resolution Versus a Lowâ€“Resolution General Circulation Model. Geophysical Research Letters, 2020, 47, e2020GL089908.	1.5	4
84	What Caused the Largeâ€“Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009â€“2012?. Geophysical Research Letters, 2020, 47, e2020GL088206.	1.5	2
85	Interacting Interannual Variability of the Pacific and Atlantic Oceans. , 2020, , 120-152.		2
86	Seasonality of Interbasin SST Contributions to Atlantic Tropical Cyclone Activity. Geophysical Research Letters, 2022, 49, .	1.5	2
87	Gabriel T. Csanady: Understanding the physics of the ocean. Progress in Oceanography, 2006, 70, 91-112.	1.5	0
88	Reply to comment by Joseph J. Barsugli on â€œGlobal warming and United States landfalling hurricanesâ€“. Geophysical Research Letters, 2009, 36, .	1.5	0