

In-Sik Kang

List of Publications by Year in descending order

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119
papers

6,594
citations

57631

44
h-index

69108

77
g-index

119
all docs

119
docs citations

119
times ranked

4130
citing authors

#	ARTICLE	IF	CITATIONS
1	The Internal and ENSO-Forced Modes of the Indian Ocean Sea Surface Temperature. <i>Journal of Climate</i> , 2022, 35, 4191-4206.	1.2	4
2	Atlantic Ocean influence on Middle East summer surface air temperature. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	25
3	Recent Acceleration of Arabian Sea Warming Induced by the Atlanticâ€Western Pacific Transâ€basin Multidecadal Variability. <i>Geophysical Research Letters</i> , 2019, 46, 1662-1671.	1.5	59
4	Long-term ENSO relationship to precipitation and storm frequency over western Himalayaâ€Karakoramâ€Hindukush region during the winter season. <i>Climate Dynamics</i> , 2019, 53, 5265-5278.	1.7	22
5	A Gray Zone GCM with Full Representation of Cloud Microphysics. <i>Springer Atmospheric Sciences</i> , 2019, , 139-155.	0.4	0
6	Spring Aleutian Low Weakening and Surface Cooling Trend in Northwest North America During Recent Decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12078-12092.	1.2	11
7	GCMs With Full Representation of Cloud Microphysics and Their MJO Simulations. , 2019, , 305-319.		1
8	Decadal Climate Variability and Predictability: Challenges and Opportunities. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 479-490.	1.7	82
9	A practical approach to scale-adaptive deep convection in a GCM by controlling the cumulus base mass flux. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	12
10	MJO simulation in CMIP5 climate models: MJO skill metrics and process-oriented diagnosis. <i>Climate Dynamics</i> , 2017, 49, 4023-4045.	1.7	131
11	Western tropical Pacific multidecadal variability forced by the Atlantic multidecadal oscillation. <i>Nature Communications</i> , 2017, 8, 15998.	5.8	202
12	Saudi-KAU Coupled Global Climate Model: Description and Performance. <i>Earth Systems and Environment</i> , 2017, 1, 1.	3.0	33
13	Multidecadal Changes in the Relationship of Storm Frequency over Euro-Mediterranean Region and ENSO During Boreal Winter. <i>Earth Systems and Environment</i> , 2017, 1, 1.	3.0	16
14	An Equatorialâ€Extratropical Dipole Structure of the Atlantic NiÃ±o. <i>Journal of Climate</i> , 2016, 29, 7295-7311.	1.2	54
15	Interannual rainfall variability and ECMWFâ€Sys4â€based predictability over the Arabian Peninsula winter monsoon region. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 233-242.	1.0	28
16	A GCM with cloud microphysics and its MJO simulation. <i>Geoscience Letters</i> , 2016, 3, .	1.3	5
17	Atlantic forcing of Pacific decadal variability. <i>Climate Dynamics</i> , 2016, 46, 2337-2351.	1.7	125
18	Thermodynamic controls of the Atlantic NiÃ±o. <i>Nature Communications</i> , 2015, 6, 8895.	5.8	81

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19	Multidecadal Changes in the Relationship between ENSO and Wet-Season Precipitation in the Arabian Peninsula. <i>Journal of Climate</i> , 2015, 28, 4743-4752.	1.2	51
20	Roles of Barotropic Convective Momentum Transport in the Intraseasonal Oscillation*. <i>Journal of Climate</i> , 2015, 28, 4908-4920.	1.2	22
21	Extended-Range Forecasts of Areal-Averaged Rainfall over Saudi Arabia. <i>Weather and Forecasting</i> , 2015, 30, 1090-1105.	0.5	12
22	Contribution of Synoptic Transients to the Potential Predictability of PNA Circulation Anomalies: El Niño versus La Niña. <i>Journal of Climate</i> , 2015, 28, 8347-8362.	1.2	17
23	Role of Longwave Cloud-Radiation Feedback in the Simulation of the Madden-Julian Oscillation. <i>Journal of Climate</i> , 2015, 28, 6979-6994.	1.2	59
24	GCMs with implicit and explicit representation of cloud microphysics for simulation of extreme precipitation frequency. <i>Climate Dynamics</i> , 2015, 45, 325-335.	1.7	32
25	ENSO Amplitude Modulation Associated with the Mean SST Changes in the Tropical Central Pacific Induced by Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2014, 27, 7911-7920.	1.2	76
26	Examination of multi-perturbation methods for ensemble prediction of the MJO during boreal summer. <i>Climate Dynamics</i> , 2014, 42, 2627-2637.	1.7	19
27	A mass flux closure function in a GCM based on the Richardson number. <i>Climate Dynamics</i> , 2014, 42, 1129-1138.	1.7	8
28	The Goddard Cumulus Ensemble model (GCE): Improvements and applications for studying precipitation processes. <i>Atmospheric Research</i> , 2014, 143, 392-424.	1.8	49
29	Climate responses in the tropical pacific associated with atlantic warming in recent decades. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2013, 49, 209-217.	1.3	20
30	A quantitative assessment of changes in seasonal potential predictability for the twentieth century. <i>Climate Dynamics</i> , 2013, 41, 2697-2709.	1.7	21
31	Real-time multivariate indices for the boreal summer intraseasonal oscillation over the Asian summer monsoon region. <i>Climate Dynamics</i> , 2013, 40, 493-509.	1.7	368
32	Simulated impacts of the South Atlantic Ocean Dipole on summer precipitation at the Guinea Coast. <i>Climate Dynamics</i> , 2013, 41, 677-694.	1.7	19
33	Influence of Convective Momentum Transport on Mixed Rossby-Gravity Waves: A Contribution to Tropical 2-Day Waves. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2467-2475.	0.6	7
34	The Role of SST Structure in Convectively Coupled Kelvin-Rossby Waves and Its Implications for MJO Formation. <i>Journal of Climate</i> , 2013, 26, 5915-5930.	1.2	48
35	On the Need of Intermediate Complexity General Circulation Models: A 'SPEEDY' Example. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 25-30.	1.7	104
36	Prediction from Weeks to Decades. , 2013, , 205-235.		13

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37	Coupled bred vectors in the tropical Pacific and their application to ENSO prediction. Progress in Oceanography, 2012, 105, 90-101.	1.5	5
38	Assessment of the long-lead probabilistic prediction for the Asian summer monsoon precipitation (1983-2011) based on the APCC multimodel system and a statistical model. Journal of Geophysical Research, 2012, 117, .	3.3	22
39	El-Nino Southern Oscillation simulated and predicted in SNU coupled GCMs. Climate Dynamics, 2012, 38, 2227-2242.	1.7	8
40	A bulk mass flux convection scheme for climate model: description and moisture sensitivity. Climate Dynamics, 2012, 38, 411-429.	1.7	49
41	Empirical singular vector method for ensemble El Niño-Southern Oscillation prediction with a coupled general circulation model. Journal of Geophysical Research, 2011, 116, .	3.3	6
42	A mechanism denial study on the Madden-Julian Oscillation. Journal of Advances in Modeling Earth Systems, 2011, 3, .	1.3	41
43	Improvement of seasonal forecasts with inclusion of tropical instability waves on initial conditions. Climate Dynamics, 2011, 36, 1277-1290.	1.7	21
44	Impact of transient eddies on extratropical seasonal-mean predictability in DEMETER models. Climate Dynamics, 2011, 37, 509-519.	1.7	18
45	Structure of AGCM-Simulated Convectively Coupled Kelvin Waves and Sensitivity to Convective Parameterization. Journals of the Atmospheric Sciences, 2011, 68, 26-45.	0.6	48
46	A Systematic Relationship between Intraseasonal Variability and Mean State Bias in AGCM Simulations. Journal of Climate, 2011, 24, 5506-5520.	1.2	151
47	Mechanisms of diurnal precipitation over the US Great Plains: a cloud resolving model perspective. Climate Dynamics, 2010, 34, 419-437.	1.7	17
48	Impact of diurnal atmosphere-ocean coupling on tropical climate simulations using a coupled GCM. Climate Dynamics, 2010, 34, 905-917.	1.7	44
49	Ocean-atmosphere coupling and the boreal winter MJO. Climate Dynamics, 2010, 35, 771-784.	1.7	36
50	New approach for optimal perturbation method in ensemble climate prediction with empirical singular vector. Climate Dynamics, 2010, 35, 331-340.	1.7	23
51	Changes in El Niño and La Niña teleconnections over North Pacific-America in the global warming simulations. Theoretical and Applied Climatology, 2010, 100, 275-282.	1.3	76
52	Growing-error correction of ensemble Kalman filter using empirical singular vectors. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2051-2060.	1.0	4
53	Assessment of MJO Predictability for Boreal Winter with Various Statistical and Dynamical Models. Journal of Climate, 2010, 23, 2368-2378.	1.2	67
54	Analysis of Intraseasonal and Interannual Variability of the Asian Summer Monsoon Using a Hidden Markov Model. Journal of Climate, 2010, 23, 5498-5516.	1.2	30

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55	The Inverse Effect of Annual-Mean State and Annual-Cycle Changes on ENSO. <i>Journal of Climate</i> , 2010, 23, 1095-1110.	1.2	28
56	Scale interaction between tropical instability waves and low-frequency oceanic flows. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	6
57	Mechanism for northward propagation of boreal summer intraseasonal oscillation: Convective momentum transport. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	46
58	Impact of El Niño onset timing on the Indian Ocean: Pacific coupling and subsequent El Niño evolution. <i>Theoretical and Applied Climatology</i> , 2009, 97, 17-27.	1.3	15
59	Simulation of state-dependent high-frequency atmospheric variability associated with ENSO. <i>Climate Dynamics</i> , 2009, 32, 635-648.	1.7	24
60	Advance and prospectus of seasonal prediction: assessment of the APCC/CLIPAS 14-model ensemble retrospective seasonal prediction (1980–2004). <i>Climate Dynamics</i> , 2009, 33, 93-117.	1.7	347
61	Effects of the low-frequency zonal wind variation on the high frequency atmospheric variability over the tropics. <i>Climate Dynamics</i> , 2009, 33, 495-507.	1.7	30
62	Optimal initial perturbations for El Niño ensemble prediction with ensemble Kalman filter. <i>Climate Dynamics</i> , 2009, 33, 959-973.	1.7	12
63	Seasonal climate predictability with Tier-one and Tier-two prediction systems. <i>Climate Dynamics</i> , 2008, 31, 403-416.	1.7	81
64	Interannual variations of the boreal summer intraseasonal variability predicted by ten atmosphere–ocean coupled models. <i>Climate Dynamics</i> , 2008, 30, 485-496.	1.7	46
65	Tropical Pacific impacts of convective momentum transport in the SNU coupled GCM. <i>Climate Dynamics</i> , 2008, 31, 213-226.	1.7	70
66	The impact of ocean–atmosphere coupling on the predictability of boreal summer intraseasonal oscillation. <i>Climate Dynamics</i> , 2008, 31, 859-870.	1.7	24
67	State-dependent atmospheric noise associated with ENSO. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	52
68	The Impacts of Convective Parameterization and Moisture Triggering on AGCM-Simulated Convectively Coupled Equatorial Waves. <i>Journal of Climate</i> , 2008, 21, 883-909.	1.2	111
69	A Moist Benchmark Calculation for Atmospheric General Circulation Models. <i>Journal of Climate</i> , 2008, 21, 4934-4954.	1.2	26
70	Sensitivity of MJO Simulation and Predictability to Sea Surface Temperature Variability. <i>Journal of Climate</i> , 2008, 21, 5304-5317.	1.2	38
71	Successive Modulation of ENSO to the Future Greenhouse Warming. <i>Journal of Climate</i> , 2008, 21, 3-21.	1.2	72
72	Systematic Error Correction of Dynamical Seasonal Prediction of Sea Surface Temperature Using a Stepwise Pattern Project Method. <i>Monthly Weather Review</i> , 2008, 136, 3501-3512.	0.5	34

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73	The Influence of ENSO on the Generation of Decadal Variability in the North Pacific*. Journal of Climate, 2007, 20, 667-680.	1.2	39
74	Global Sea Surface Temperature Prediction Using a Multimodel Ensemble. Monthly Weather Review, 2007, 135, 3239-3247.	0.5	32
75	Effects of cloudâ€radiative heating on atmospheric general circulation model (AGCM) simulations of convectively coupled equatorial waves. Journal of Geophysical Research, 2007, 112, .	3.3	16
76	Role of moist energy advection in formulating anomalous Walker Circulation associated with El NiÃ±o. Journal of Geophysical Research, 2007, 112, .	3.3	33
77	Source of low frequency modulation of ENSO amplitude in a CGCM. Climate Dynamics, 2007, 29, 101-111.	1.7	5
78	Secular increase of seasonal predictability for the 20th century. Geophysical Research Letters, 2006, 33, .	1.5	11
79	Role of the ENSOâ€™Indian Ocean coupling on ENSO variability in a coupled GCM. Geophysical Research Letters, 2006, 33, .	1.5	112
80	Interactive Feedback between ENSO and the Indian Ocean in an Interactive Ensemble Coupled Model. Journal of Climate, 2006, 19, 6371-6381.	1.2	51
81	Examination of multi-model ensemble seasonal prediction methods using a simple climate system. Climate Dynamics, 2006, 26, 285-294.	1.7	19
82	Interactive Feedback between ENSO and the Indian Ocean. Journal of Climate, 2006, 19, 1784-1801.	1.2	273
83	Dynamic seasonal prediction and predictability of the monsoon. , 2006, , 585-612.		59
84	Western Pacific SST Prediction with an Intermediate El NiÃ±o Prediction Model. Monthly Weather Review, 2005, 133, 1343-1352.	0.5	7
85	El NiÃ±oâ€™La NiÃ±a Asymmetry in the Coupled Model Intercomparison Project Simulations*. Journal of Climate, 2005, 18, 2617-2627.	1.2	84
86	Preconditions for El NiÃ±o and La NiÃ±a onsets and their relation to the Indian Ocean. Geophysical Research Letters, 2005, 32, .	1.5	57
87	Fundamental challenge in simulation and prediction of summer monsoon rainfall. Geophysical Research Letters, 2005, 32, .	1.5	566
88	Theoretical examination of a multi-model composite for seasonal prediction. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	32
89	Vertical structure variability in the equatorial Pacific before and after the Pacific climate shift of the 1970s. Geophysical Research Letters, 2004, 31, .	1.5	28
90	A statistical approach to Indian Ocean sea surface temperature prediction using a dynamical ENSO prediction. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	53

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91	A Near-Annual Pacific Ocean Basin Mode. <i>Journal of Climate</i> , 2004, 17, 2478-2488.	1.2	26
92	Ensemble Simulations of Asianâ€™Australian Monsoon Variability by 11 AGCMs*. <i>Journal of Climate</i> , 2004, 17, 803-818.	1.2	287
93	Potential Predictability of Summer Mean Precipitation in a Dynamical Seasonal Prediction System with Systematic Error Correction. <i>Journal of Climate</i> , 2004, 17, 834-844.	1.2	155
94	The Decadal ENSO Variability in a Hybrid Coupled Model. <i>Journal of Climate</i> , 2004, 17, 1225-1238.	1.2	21
95	A near-annual coupled ocean-atmosphere mode in the equatorial Pacific ocean. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	32
96	Symmetric and antisymmetric mass exchanges between the equatorial and off-equatorial Pacific associated with ENSO. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	52
97	Impacts of Cumulus Convection Parameterization on Aqua-planet AGCM Simulations of Tropical Intraseasonal Variability. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 963-992.	0.7	86
98	The Characteristic Variability of Boreal Wintertime Atmospheric Circulation in El Niño Events. <i>Journal of Climate</i> , 2002, 15, 892-904.	1.2	17
99	El Niño and La Niña sea surface temperature anomalies: Asymmetry characteristics associated with their wind stress anomalies. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1.	3.3	160
100	Forced and Free Intraseasonal Variability over the South Asian Monsoon Region Simulated by 10 AGCMs. <i>Journal of Climate</i> , 2002, 15, 2862-2880.	1.2	48
101	Influence of cloud-radiation interaction on simulating tropical intraseasonal oscillation with an atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2001, 106, 14219-14233.	3.3	94
102	The impacts of the model assimilated wind stress data in the initialization of an intermediate ocean and the ENSO predictability. <i>Geophysical Research Letters</i> , 2001, 28, 3713-3716.	1.5	11
103	The characteristic oscillation induced by coupled processes between oceanic vertical modes and atmospheric modes in the tropical Pacific. <i>Geophysical Research Letters</i> , 2001, 28, 2847-2850.	1.5	11
104	Tropical Pacific basin-wide adjustment and oceanic waves. <i>Geophysical Research Letters</i> , 2001, 28, 3975-3978.	1.5	10
105	A Systematic Approximation of the SST Anomaly Equation for ENSO.. <i>Journal of the Meteorological Society of Japan</i> , 2001, 79, 1-10.	0.7	73
106	Sensitivity of the equatorial air-sea coupled system to the zonal phase difference between SST and wind stress. <i>Advances in Atmospheric Sciences</i> , 2001, 18, 155-165.	1.9	2
107	A Further Investigation of the Recharge Oscillator Paradigm for ENSO Using a Simple Coupled Model with the Zonal Mean and Eddy Separated. <i>Journal of Climate</i> , 2000, 13, 1987-1993.	1.2	23
108	An El-Nino Prediction System using an intermediate ocean and a statistical atmosphere. <i>Geophysical Research Letters</i> , 2000, 27, 1167-1170.	1.5	45

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109	The Role of Zonal Advection Feedback in Phase Transition and Growth of ENSO in the Cane-Zebiak Model. <i>Journal of the Meteorological Society of Japan</i> , 1999, 77, 1151-1160.	0.7	54
110	Principal Modes of Climatological Seasonal and Intraseasonal Variations of the Asian Summer Monsoon. <i>Monthly Weather Review</i> , 1999, 127, 322-340.	0.5	120
111	Kelvin and Rossby Wave Contributions to the SST Oscillation of ENSO. <i>Journal of Climate</i> , 1998, 11, 2461-2469.	1.2	29
112	Association of Interannual and Interdecadal Variations of Global-Mean Temperature with Tropical Pacific SST Appearing in a Model and Observations. <i>Journal of Climate</i> , 1996, 9, 455-464.	1.2	9
113	Principal Modes of Atmospheric Circulation Anomalies Associated with Global Angular Momentum Fluctuations. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 1194-1205.	0.6	29
114	Evolution of Tropical Circulation Anomalies Associated with 30-60 day Oscillation of Globally Averaged Angular Momentum during Northern Summer. <i>Journal of the Meteorological Society of Japan</i> , 1990, 68, 237-249.	0.7	7
115	Principal modes of intraseasonal variations in atmospheric angular momentum and tropical convection. <i>Journal of Geophysical Research</i> , 1989, 94, 6319-6332.	3.3	15
116	Interannual Variability of Winter Mean Precipitation and Upper-Level Circulation in Extended GCM Integrations with and without Interannual Variation of Tropical Pacific SST. <i>Journal of the Meteorological Society of Japan</i> , 1988, 66, 741-751.	0.7	3
117	Barotropic Models of the Extratropical Response to El Niflo. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 3576-3586.	0.6	80
118	Principal Modes of Atmospheric Variability in Model Atmospheres with and without Anomalous Sea Surface Temperature Forcing in the Tropical Pacific. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 2719-2735.	0.6	31
119	Linear and Nonlinear Diagnostic Models of Stationary Eddies in the Upper Troposphere during Northern Summer. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 3045-3057.	0.6	23