

# X San Liang

## List of Publications by Year in descending order

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73  
papers

2,254  
citations

257450

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233421

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docs citations

76  
times ranked

1529  
citing authors

#	ARTICLE	IF	CITATIONS
1	The changing relationship between the convection over the western Tibetan Plateau and the sea surface temperature in the northern Bay of Bengal. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 70, 1440869.	1.7	18
2	Different mechanisms for the seasonal variations of the mesoscale eddy energy in the South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2022, 179, 103677.	1.4	3
3	The causal role of South China Sea on the Pacific–North American teleconnection pattern. <i>Climate Dynamics</i> , 2022, 59, 1815-1832.	3.8	6
4	An Information Flow-Based Sea Surface Height Reconstruction Through Machine Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-9.	6.3	3
5	Multiscale Interactive Processes Underlying the Heavy Rainstorm Associated with a Landfalling Atmospheric River. <i>Atmosphere</i> , 2022, 13, 29.	2.3	1
6	The Causal Interaction between Complex Subsystems. <i>Entropy</i> , 2022, 24, 3.	2.2	7
7	Dynamical Dependencies at Monthly and Interannual Time Scales in the Climate System: Study of the North Pacific and Atlantic Regions. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 74, 141-158.	1.7	9
8	Causal Links Between Arctic Sea Ice and Its Potential Drivers Based on the Rate of Information Transfer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	17
9	Nexus of ambient flow and squall line via turbulence in the March 2018 meso-scale convective system over Southeast China. <i>Atmospheric Research</i> , 2022, 277, 106287.	4.1	0
10	Relative contributions of global warming, AMO and IPO to the land precipitation variabilities since 1930s. <i>Climate Dynamics</i> , 2021, 56, 2225-2243.	3.8	11
11	Absolute instabilities in the spatially developing Kuroshio Extension. <i>Dynamics of Atmospheres and Oceans</i> , 2021, 93, 101205.	1.8	0
12	A Note on Causation versus Correlation in an Extreme Situation. <i>Entropy</i> , 2021, 23, 316.	2.2	7
13	Normalized Multivariate Time Series Causality Analysis and Causal Graph Reconstruction. <i>Entropy</i> , 2021, 23, 679.	2.2	33
14	Influence of the Kuroshio Intrusion on Deep Flow Intraseasonal Variability in the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017429.	2.6	9
15	Measuring the importance of individual units in producing the collective behavior of a complex network. <i>Chaos</i> , 2021, 31, 093123.	2.5	6
16	El Niño Modoki can be mostly predicted more than 10 years ahead of time. <i>Scientific Reports</i> , 2021, 11, 17860.	3.3	20
17	Panel Data Causal Inference Using a Rigorous Information Flow Analysis for Homogeneous, Independent and Identically Distributed Datasets. <i>IEEE Access</i> , 2021, 9, 47266-47274.	4.2	5
18	Vertical coupling and dynamical source for the intraseasonal variability in the deep Kuroshio Extension. <i>Ocean Dynamics</i> , 2021, 71, 1069.	2.2	3

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19	The Synchronization between the Zonal Jet Stream and Temperature Anomalies Leads to an Extremely Freezing North America in January 2019. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089689.	4.0	10
20	Effect of Upper Tropospheric Vertical Thermal Contrast Over the Mediterranean Region on Convection over the Western Tibetan Plateau during ENSO Years. <i>Atmosphere - Ocean</i> , 2020, 58, 98-109.	1.6	8
21	Long-term trends in Arctic surface temperature and potential causality over the last 100 years. <i>Climate Dynamics</i> , 2020, 55, 1443-1456.	3.8	21
22	Instabilities and Multiscale Interactions Underlying the Loop Current Eddy Shedding in the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2020, 50, 1289-1317.	1.7	42
23	New Perspectives on the Generation and Maintenance of the Kuroshio Large Meander. <i>Journal of Physical Oceanography</i> , 2019, 49, 2095-2113.	1.7	13
24	Causes and underlying dynamic processes of the mid-winter suppression in the North Pacific storm track. <i>Science China Earth Sciences</i> , 2019, 62, 872-890.	5.2	12
25	Charney's Model—the Renowned Prototype of Baroclinic Instability—is Barotropically Unstable As Well. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 733-752.	4.3	0
26	The Out-of-Phase Variation in Vertical Thermal Contrast Over the Western and Eastern Sides of the Northern Tibetan Plateau. <i>Pure and Applied Geophysics</i> , 2019, 176, 5337-5348.	1.9	7
27	Spatiotemporal Variability of the Global Ocean Internal Processes Inferred from Satellite Observations. <i>Journal of Physical Oceanography</i> , 2019, 49, 2147-2164.	1.7	7
28	A Time-Varying Causality Formalism Based on the Liang-Kleeman Information Flow for Analyzing Directed Interactions in Nonstationary Climate Systems. <i>Journal of Climate</i> , 2019, 32, 7521-7537.	3.2	29
29	A Study of the Cross-Scale Causation and Information Flow in a Stormy Model Mid-Latitude Atmosphere. <i>Entropy</i> , 2019, 21, 149.	2.2	5
30	Spatial Distribution and Physical Controls of the Spring Algal Blooming Off the Changjiang River Estuary. <i>Estuaries and Coasts</i> , 2019, 42, 1066-1083.	2.2	35
31	The intrinsic nonlinear multiscale interactions among the mean flow, low frequency variability and mesoscale eddies in the Kuroshio region. <i>Science China Earth Sciences</i> , 2019, 62, 595-608.	5.2	4
32	The asymmetric eddy-background flow interaction in the North Pacific storm track. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 575-596.	2.7	6
33	Chlorophyll-a Estimation in Turbid Waters Using Combined SAR Data With Hyperspectral Reflectance Data: A Case Study in Lake Taihu, China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 1325-1336.	4.9	11
34	Different Generating Mechanisms for the Summer Surface Cold Patches in the Yellow Sea. <i>Atmosphere - Ocean</i> , 2018, 56, 199-211.	1.6	15
35	A Study of the Impact of the Fukushima Nuclear Leak on East China Coastal Regions. <i>Atmosphere - Ocean</i> , 2018, 56, 254-267.	1.6	6
36	Forecasting the Tropical Cyclone Genesis over the Northwest Pacific through Identifying the Causal Factors in Cyclone-Climate Interactions. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 247-259.	1.3	33

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37	Preface: Coastal-Ocean Issues and Inland Water Pollution Effects on Environmental Change. Atmosphere - Ocean, 2018, 56, 197-198.	1.6	0
38	The Cyclogenesis and Decay of Typhoon Damrey. , 2018, , .		2
39	On the Inverse Relationship between the Boreal Wintertime Pacific Jet Strength and Storm-Track Intensity. Journal of Climate, 2018, 31, 9545-9564.	3.2	11
40	Evaluation of the Influence of Aquatic Plants and Lake Bottom on the Remote-Sensing Reflectance of Optically Shallow Waters. Atmosphere - Ocean, 2018, 56, 277-288.	1.6	0
41	On the Seasonal Eddy Variability in the Kuroshio Extension. Journal of Physical Oceanography, 2018, 48, 1675-1689.	1.7	43
42	Causation and information flow with respect to relative entropy. Chaos, 2018, 28, 075311.	2.5	45
43	Regional Characteristics of Typhoon-Induced Ocean Eddies in the East China Sea. Advances in Atmospheric Sciences, 2018, 35, 826-838.	4.3	0
44	On the Decadal Variability of the Eddy Kinetic Energy in the Kuroshio Extension. Journal of Physical Oceanography, 2017, 47, 1169-1187.	1.7	50
45	On the Generation and Maintenance of the 2012/13 Sudden Stratospheric Warming. Journals of the Atmospheric Sciences, 2017, 74, 3209-3228.	1.7	17
46	Multiscale Dynamical Processes Underlying the Wintertime Atlantic Blockings. Journals of the Atmospheric Sciences, 2017, 74, 3815-3831.	1.7	22
47	Comparison of Oil Spill Classifications Using Fully and Compact Polarimetric SAR Images. Applied Sciences (Switzerland), 2017, 7, 193.	2.5	29
48	Analyzing the Characteristics of Soil Moisture Using GLDAS Data: A Case Study in Eastern China. Applied Sciences (Switzerland), 2017, 7, 566.	2.5	31
49	A Diagnosis of Some Dynamical Processes Underlying a Higher-Latitude Typhoon Using the Multiscale Window Transform. Atmosphere, 2017, 8, 118.	2.3	4
50	Information flow and causality as rigorous notions. Physical Review E, 2016, 94, 052201.	2.1	110
51	The Instabilities and Multiscale Energetics Underlying the Mean-Interannual Eddy Interactions in the Kuroshio Extension Region. Journal of Physical Oceanography, 2016, 46, 1477-1494.	1.7	41
52	Canonical Transfer and Multiscale Energetics for Primitive and Quasigeostrophic Atmospheres. Journals of the Atmospheric Sciences, 2016, 73, 4439-4468.	1.7	61
53	Nonlinear multiscale interactions and internal dynamics underlying a typical eddy-shedding event at Luzon Strait. Journal of Geophysical Research: Oceans, 2016, 121, 8208-8229.	2.6	14
54	On the causal structure between CO2 and global temperature. Scientific Reports, 2016, 6, 21691.	3.3	153

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55	Normalizing the causality between time series. <i>Physical Review E</i> , 2015, 92, 022126.	2.1	84
56	Tropospheric temperature gradient and its relation to the South and East Asian precipitation variability. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 579-585.	2.0	16
57	Entropy Evolution and Uncertainty Estimation with Dynamical Systems. <i>Entropy</i> , 2014, 16, 3605-3634.	2.2	14
58	Unraveling the cause-effect relation between time series. <i>Physical Review E</i> , 2014, 90, 052150.	2.1	198
59	Local predictability and information flow in complex dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2013, 248, 1-15.	2.8	17
60	Absolute and convective instabilities and their roles in the forecasting of large frontal meanderings. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5686-5702.	2.6	4
61	The Liang-Kleeman Information Flow: Theory and Applications. <i>Entropy</i> , 2013, 15, 327-360.	2.2	57
62	Uncertainty generation in deterministic flows: Theory and application with an atmospheric jet stream model. <i>Dynamics of Atmospheres and Oceans</i> , 2011, 52, 51-79.	1.8	6
63	Multiscale Processes and Nonlinear Dynamics of the Circulation and Upwelling Events off Monterey Bay. <i>Journal of Physical Oceanography</i> , 2009, 39, 290-313.	1.7	18
64	Information flow within stochastic dynamical systems. <i>Physical Review E</i> , 2008, 78, 031113.	2.1	66
65	Rectification of the Bias in the Wavelet Power Spectrum. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 2093-2102.	1.3	373
66	Localized multi-scale energy and vorticity analysis. <i>Dynamics of Atmospheres and Oceans</i> , 2007, 44, 51-76.	1.8	47
67	Multiscale Window Transform. <i>Multiscale Modeling and Simulation</i> , 2007, 6, 437-467.	1.6	69
68	A rigorous formalism of information transfer between dynamical system components. II. Continuous flow. <i>Physica D: Nonlinear Phenomena</i> , 2007, 227, 173-182.	2.8	26
69	A rigorous formalism of information transfer between dynamical system components. I. Discrete mapping. <i>Physica D: Nonlinear Phenomena</i> , 2007, 231, 1-9.	2.8	29
70	Information Transfer between Dynamical System Components. <i>Physical Review Letters</i> , 2005, 95, 244101.	7.8	113
71	Localized multiscale energy and vorticity analysis. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 38, 195-230.	1.8	59
72	The Slow Coastal-Trapped Waves off Subei Bank in the Yellow Sea and Their Climatic Change in the Past Decades. , 0, , .		0

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73	Drastic change in dynamics as Typhoon Lekima experiences an eyewall replacement cycle. <i>Frontiers of Earth Science</i> , 0, , 1.	2.1	2