

# Xander Wang

## List of Publications by Year in descending order

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69  
papers

1,378  
citations

331538

21  
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395590

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69  
all docs

69  
docs citations

69  
times ranked

1031  
citing authors

#	ARTICLE	IF	CITATIONS
1	A stepwise cluster analysis approach for downscaled climate projection – A Canadian case study. <i>Environmental Modelling and Software</i> , 2013, 49, 141-151.	1.9	80
2	Drought Occurring With Hot Extremes: Changes Under Future Climate Change on Loess Plateau, China. <i>Earth's Future</i> , 2019, 7, 587-604.	2.4	57
3	Urban flood prediction under heavy precipitation. <i>Journal of Hydrology</i> , 2019, 577, 123984.	2.3	56
4	Impacts of future climate change on river discharge based on hydrological inference: A case study of the Grand River Watershed in Ontario, Canada. <i>Science of the Total Environment</i> , 2016, 548-549, 198-210.	3.9	52
5	Future changes in precipitation extremes over China projected by a regional climate model ensemble. <i>Atmospheric Environment</i> , 2018, 188, 142-156.	1.9	52
6	Projected increases in intensity and frequency of rainfall extremes through a regional climate modeling approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,271.	1.2	51
7	High-resolution temperature and precipitation projections over Ontario, Canada: a coupled dynamical-statistical approach. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1137-1146.	1.0	48
8	Risk-based electric power system planning for climate change mitigation through multi-stage joint-probabilistic left-hand-side chance-constrained fractional programming: A Canadian case study. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1056-1067.	8.2	47
9	Ensemble Projections of Regional Climatic Changes over Ontario, Canada. <i>Journal of Climate</i> , 2015, 28, 7327-7346.	1.2	46
10	A stepwise-cluster forecasting approach for monthly streamflows based on climate teleconnections. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1557-1569.	1.9	38
11	Development of a Stepwise-Clustered Hydrological Inference Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	38
12	Probabilistic Prediction for Monthly Streamflow through Coupling Stepwise Cluster Analysis and Quantile Regression Methods. <i>Water Resources Management</i> , 2016, 30, 5313-5331.	1.9	38
13	High-Resolution Probabilistic Projections of Temperature Changes over Ontario, Canada. <i>Journal of Climate</i> , 2014, 27, 5259-5284.	1.2	35
14	Investigating future precipitation changes over China through a high-resolution regional climate model ensemble. <i>Earth's Future</i> , 2017, 5, 285-303.	2.4	33
15	Violation analysis on two-step method for interval linear programming. <i>Information Sciences</i> , 2014, 281, 85-96.	4.0	32
16	Projected changes in temperature, precipitation, and their extremes over China through the RegCM. <i>Climate Dynamics</i> , 2019, 53, 5859-5880.	1.7	31
17	A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. <i>Climate Dynamics</i> , 2018, 51, 2413-2431.	1.7	27
18	High-resolution projections of mean and extreme precipitations over China through PRECIS under RCPs. <i>Climate Dynamics</i> , 2018, 50, 4037-4060.	1.7	26

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19	Future projections of temperature changes in Ottawa, Canada through stepwise clustered downscaling of multiple GCMs under RCPs. <i>Climate Dynamics</i> , 2019, 52, 3455-3470.	1.7	25
20	Development of PCA-based cluster quantile regression (PCA-CQR) framework for streamflow prediction: Application to the Xiangxi river watershed, China. <i>Applied Soft Computing Journal</i> , 2017, 51, 280-293.	4.1	24
21	CO2 emissions patterns of 26 cities in the Yangtze River Delta in 2015: Evidence and implications. <i>Environmental Pollution</i> , 2019, 252, 1678-1686.	3.7	22
22	Projected changes in wind speed and its energy potential in China using a high-resolution regional climate model. <i>Wind Energy</i> , 2020, 23, 471-485.	1.9	22
23	Projected increases in near-surface air temperature over Ontario, Canada: a regional climate modeling approach. <i>Climate Dynamics</i> , 2015, 45, 1381-1393.	1.7	21
24	Dynamically-downscaled probabilistic projections of precipitation changes: A Canadian case study. <i>Environmental Research</i> , 2016, 148, 86-101.	3.7	21
25	Investigation of Changes in Extreme Temperature and Humidity Over China Through a Dynamical Downscaling Approach. <i>Earth's Future</i> , 2017, 5, 1136-1155.	2.4	21
26	Dynamically-downscaled projections of changes in temperature extremes over China. <i>Climate Dynamics</i> , 2018, 50, 1045-1066.	1.7	21
27	Future Changes in Precipitation Extremes Over Canada: Driving Factors and Inherent Mechanism. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5783-5803.	1.2	20
28	Assessment of climate change impacts on energy capacity planning in Ontario, Canada using high-resolution regional climate model. <i>Journal of Cleaner Production</i> , 2020, 274, 123026.	4.6	19
29	Evaluating the added values of regional climate modeling over China at different resolutions. <i>Science of the Total Environment</i> , 2020, 718, 137350.	3.9	19
30	Hydrologic Impacts of Ensemble-RCM-Projected Climate Changes in the Athabasca River Basin, Canada. <i>Journal of Hydrometeorology</i> , 2018, 19, 1953-1971.	0.7	18
31	An open-source software package for multivariate modeling and clustering: applications to air quality management. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14220-14233.	2.7	17
32	Spatiotemporal patterns of future temperature and precipitation over China projected by PRECIS under RCPs. <i>Atmospheric Research</i> , 2021, 249, 105303.	1.8	17
33	A production-emission nexus based stochastic-fuzzy model for identification of urban industry-environment policy under uncertainty. <i>Journal of Cleaner Production</i> , 2017, 154, 61-82.	4.6	16
34	A hybrid factorial stepwise-cluster analysis method for streamflow simulation – a case study in northwestern China. <i>Hydrological Sciences Journal</i> , 2016, 61, 2775-2788.	1.2	15
35	PRECIS-projected increases in temperature and precipitation over Canada. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 588-603.	1.0	15
36	Spatiotemporal Changes of China's Carbon Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 8536-8546.	1.5	15

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37	Contribution of Climate Extremes to Variation in Potato Tuber Yield in Prince Edward Island. Sustainability, 2020, 12, 4937.	1.6	15
38	Dynamically-downscaled temperature and precipitation changes over Saskatchewan using the PRECIS model. Climate Dynamics, 2018, 50, 1321-1334.	1.7	13
39	An inexact two-stage fractional energy systems planning model. Energy, 2018, 160, 275-289.	4.5	13
40	Improved performance of a PRECIS ensemble in simulating near-surface air temperature over China. Climate Dynamics, 2019, 52, 6691-6704.	1.7	13
41	Forecasting daily evapotranspiration using artificial neural networks for sustainable irrigation scheduling. Irrigation Science, 2022, 40, 55-69.	1.3	13
42	Climate warming will not decrease perceived low-temperature extremes in China. Climate Dynamics, 2019, 52, 5641-5656.	1.7	12
43	Vine Copula Ensemble Downscaling for Precipitation Projection Over the Loess Plateau Based on High-Resolution Multi-RCM Outputs. Water Resources Research, 2021, 57, .	1.7	12
44	Probabilistic projections of regional climatic changes over the Great Lakes Basin. Climate Dynamics, 2017, 49, 2237-2247.	1.7	11
45	Ensemble projection of city-level temperature extremes with stepwise cluster analysis. Climate Dynamics, 2021, 56, 3313-3335.	1.7	11
46	Application of Artificial Neural Networks to Project Reference Evapotranspiration Under Climate Change Scenarios. Water Resources Management, 2022, 36, 835-851.	1.9	11
47	Factorial Sensitivity Analysis of Physical Schemes and Their Interactions in RegCM. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032501.	1.2	10
48	Observed regional climatic changes over Ontario, Canada, in response to global warming. Meteorological Applications, 2016, 23, 140-149.	0.9	9
49	Observed changes in temperature extremes for the Beijing-Tianjin-Hebei region of China. Meteorological Applications, 2017, 24, 74-83.	0.9	9
50	Flood Management, Characterization and Vulnerability Analysis Using an Integrated RS-GIS and 2D Hydrodynamic Modelling Approach: The Case of Deg Nullah, Pakistan. Remote Sensing, 2022, 14, 2138.	1.8	9
51	Twenty-first century probabilistic projections of precipitation over Ontario, Canada through a regional climate model ensemble. Climate Dynamics, 2016, 46, 3979-4001.	1.7	8
52	Sorption of Phenanthrene onto Diatomite under the Influences of Solution Chemistry: A Study of Linear Sorption based on Maximal Information Coefficient. Journal of Environmental Informatics, 0, , .	6.0	8
53	Highwater Mark Collection after Post Tropical Storm Dorian and Implications for Prince Edward Island, Canada. Water (Switzerland), 2021, 13, 3201.	1.2	8
54	Robust Fully Fuzzy Programming with Fuzzy Set Ranking Method for Environmental Systems Planning Under Uncertainty. Environmental Engineering Science, 2013, 30, 280-293.	0.8	7

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55	Mitigation of Greenhouse Gas Emissions from Agricultural Fields through Bioresource Management. Sustainability, 2022, 14, 5666.	1.6	7
56	Insight into sorption mechanism of phenanthrene onto gemini modified palygorskite through a multi-level fuzzy-factorial inference approach. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 759-768.	0.9	6
57	Long-Term Projection of Water Cycle Changes over China Using RegCM. Remote Sensing, 2021, 13, 3832.	1.8	6
58	Building a Web-based Decision Support System for Sustainable Development of Energy, Economy and Environment. , 2009, , .		5
59	An interval mixed-integer non-linear programming model to support regional electric power systems planning with CO2 capture and storage under uncertainty. Environmental Systems Research, 2012, 1, 1.	1.5	5
60	Impacts assessment of air emissions from point sources in Saskatchewan, Canada â€” A spatial analysis approach. Environmental Progress and Sustainable Energy, 2015, 34, 304-313.	1.3	5
61	Research and Application of a Data-driven Platform for Sustainable Development of Energy, Economy and Environment. , 2009, , .		4
62	Evaluation of the temperature downscaling performance of PRECIS to the BCC-CSM2-MR model over China. Climate Dynamics, 2022, 59, 1143-1159.	1.7	4
63	Projections of daily mean surface temperature over the Beijing-Tianjin-Hebei region through a stepwise cluster downscaling method. Theoretical and Applied Climatology, 2020, 141, 71-86.	1.3	3
64	Bayesian model averaging of the RegCM temperature projections: a Canadian case study. Journal of Water and Climate Change, 2022, 13, 771-785.	1.2	2
65	Future climate projections for Eastern Canada. Climate Dynamics, 2022, 59, 2735-2750.	1.7	2
66	Environmental Systems Modelling and Analysis under Changing Conditions. Mathematical Problems in Engineering, 2021, 2021, 1-2.	0.6	2
67	Diagnostic Evaluation and Uncertainty Quantification of Earth and Environmental Systems Models. Mathematical Problems in Engineering, 2018, 2018, 1-2.	0.6	0
68	Possibility of Stabilizing the Greenland Ice Sheet. Earth's Future, 2021, 9, e2021EF002152.	2.4	0
69	Editorial: Future Climate Scenarios: Regional Climate Modelling and Data Analysis. Frontiers in Environmental Science, 2022, 10, .	1.5	0