

Xander Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

913

citations

18

h-index

26

g-index

69

ext. papers

1,164

ext. citations

4.9

avg, IF

4.75

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 68 | Application of Artificial Neural Networks to Project Reference Evapotranspiration Under Climate Change Scenarios. <i>Water Resources Management</i> , 2022 , 36, 835 | 3.7 | 2 |
| 67 | Flood Management, Characterization and Vulnerability Analysis Using an Integrated RS-GIS and 2D Hydrodynamic Modelling Approach: The Case of Deg Nullah, Pakistan. <i>Remote Sensing</i> , 2022 , 14, 2138 | 5 | 0 |
| 66 | Mitigation of Greenhouse Gas Emissions from Agricultural Fields through Bioresource Management. <i>Sustainability</i> , 2022 , 14, 5666 | 3.6 | 2 |
| 65 | Highwater Mark Collection after Post Tropical Storm Dorian and Implications for Prince Edward Island, Canada. <i>Water (Switzerland)</i> , 2021 , 13, 3201 | 3 | 2 |
| 64 | Spatiotemporal patterns of future temperature and precipitation over China projected by PRECIS under RCPs. <i>Atmospheric Research</i> , 2021 , 249, 105303 | 5.4 | 8 |
| 63 | Vine Copula Ensemble Downscaling for Precipitation Projection Over the Loess Plateau Based on High-Resolution Multi-RCM Outputs. <i>Water Resources Research</i> , 2021 , 57, | 5.4 | 4 |
| 62 | Ensemble projection of city-level temperature extremes with stepwise cluster analysis. <i>Climate Dynamics</i> , 2021 , 56, 3313-3335 | 4.2 | 2 |
| 61 | Possibility of Stabilizing the Greenland Ice Sheet. <i>Earth's Future</i> , 2021 , 9, e2021EF002152 | 7.9 | |
| 60 | Long-Term Projection of Water Cycle Changes over China Using RegCM. <i>Remote Sensing</i> , 2021 , 13, 3832 | 5 | 2 |
| 59 | Environmental Systems Modelling and Analysis under Changing Conditions. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-2 | 1.1 | 1 |
| 58 | Contribution of Climate Extremes to Variation in Potato Tuber Yield in Prince Edward Island. <i>Sustainability</i> , 2020 , 12, 4937 | 3.6 | 7 |
| 57 | Evaluating the added values of regional climate modeling over China at different resolutions. <i>Science of the Total Environment</i> , 2020 , 718, 137350 | 10.2 | 9 |
| 56 | Projections of daily mean surface temperature over the Beijing-Tianjin-Hebei region through a stepwise cluster downscaling method. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 71-86 | 3 | 1 |
| 55 | 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 | 3.4 | 10 |
| 54 | 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 | 10.3 | 5 |
| 53 | Factorial Sensitivity Analysis of Physical Schemes and Their Interactions in RegCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032501 | 4.4 | 6 |
| 52 | Improved performance of a PRECIS ensemble in simulating near-surface air temperature over China. <i>Climate Dynamics</i> , 2019 , 52, 6691-6704 | 4.2 | 9 |

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| 51 | 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 | 4.2 | 14 |
| 50 | Drought Occurring With Hot Extremes: Changes Under Future Climate Change on Loess Plateau, China. <i>Earth's Future</i> , 2019 , 7, 587-604 | 7.9 | 30 |
| 49 | Projected changes in temperature, precipitation, and their extremes over China through the RegCM. <i>Climate Dynamics</i> , 2019 , 53, 5859-5880 | 4.2 | 16 |
| 48 | Urban flood prediction under heavy precipitation. <i>Journal of Hydrology</i> , 2019 , 577, 123984 | 6 | 29 |
| 47 | CO emissions patterns of 26 cities in the Yangtze River Delta in 2015: Evidence and implications. <i>Environmental Pollution</i> , 2019 , 252, 1678-1686 | 9.3 | 13 |
| 46 | Climate warming will not decrease perceived low-temperature extremes in China. <i>Climate Dynamics</i> , 2019 , 52, 5641-5656 | 4.2 | 8 |
| 45 | PRECIS-projected increases in temperature and precipitation over Canada. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 588-603 | 6.4 | 11 |
| 44 | A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. <i>Climate Dynamics</i> , 2018 , 51, 2413-2431 | 4.2 | 18 |
| 43 | Dynamically-downscaled temperature and precipitation changes over Saskatchewan using the PRECIS model. <i>Climate Dynamics</i> , 2018 , 50, 1321-1334 | 4.2 | 9 |
| 42 | 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 | 16.2 | 36 |
| 41 | Spatiotemporal Changes of China's Carbon Emissions. <i>Geophysical Research Letters</i> , 2018 , 45, 8536-8546 | 4.9 | 5 |
| 40 | Dynamically-downscaled projections of changes in temperature extremes over China. <i>Climate Dynamics</i> , 2018 , 50, 1045-1066 | 4.2 | 16 |
| 39 | Diagnostic Evaluation and Uncertainty Quantification of Earth and Environmental Systems Models. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-2 | 1.1 | |
| 38 | Future Changes in Precipitation Extremes Over Canada: Driving Factors and Inherent Mechanism. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5783-5803 | 4.4 | 12 |
| 37 | Hydrologic Impacts of Ensemble-RCM-Projected Climate Changes in the Athabasca River Basin, Canada. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1953-1971 | 3.7 | 10 |
| 36 | An inexact two-stage fractional energy systems planning model. <i>Energy</i> , 2018 , 160, 275-289 | 7.9 | 10 |
| 35 | High-resolution projections of mean and extreme precipitations over China through PRECIS under RCPs. <i>Climate Dynamics</i> , 2018 , 50, 4037-4060 | 4.2 | 18 |
| 34 | Future changes in precipitation extremes over China projected by a regional climate model ensemble. <i>Atmospheric Environment</i> , 2018 , 188, 142-156 | 5.3 | 33 |

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| 33 | Observed changes in temperature extremes for the Beijing-Tianjin-Hebei region of China. <i>Meteorological Applications</i> , 2017 , 24, 74-83 | 2.1 | 5 |
| 32 | 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 | 7.5 | 14 |
| 31 | Investigating future precipitation changes over China through a high-resolution regional climate model ensemble. <i>Earth's Future</i> , 2017 , 5, 285-303 | 7.9 | 25 |
| 30 | 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 | 10.3 | 13 |
| 29 | Investigation of Changes in Extreme Temperature and Humidity Over China Through a Dynamical Downscaling Approach. <i>Earth's Future</i> , 2017 , 5, 1136-1155 | 7.9 | 11 |
| 28 | Probabilistic projections of regional climatic changes over the Great Lakes Basin. <i>Climate Dynamics</i> , 2017 , 49, 2237-2247 | 4.2 | 7 |
| 27 | 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 | 3.5 | 10 |
| 26 | 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 | 10.2 | 43 |
| 25 | Twenty-first century probabilistic projections of precipitation over Ontario, Canada through a regional climate model ensemble. <i>Climate Dynamics</i> , 2016 , 46, 3979-4001 | 4.2 | 8 |
| 24 | Dynamically-downscaled probabilistic projections of precipitation changes: A Canadian case study. <i>Environmental Research</i> , 2016 , 148, 86-101 | 7.9 | 16 |
| 23 | Insight into sorption mechanism of phenanthrene onto gemini modified palygorskite through a multi-level fuzzy-factorial inference approach. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016 , 51, 759-68 | 2.3 | 6 |
| 22 | Probabilistic Prediction for Monthly Streamflow through Coupling Stepwise Cluster Analysis and Quantile Regression Methods. <i>Water Resources Management</i> , 2016 , 30, 5313-5331 | 3.7 | 30 |
| 21 | Observed regional climatic changes over Ontario, Canada, in response to global warming. <i>Meteorological Applications</i> , 2016 , 23, 140-149 | 2.1 | 8 |
| 20 | 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 | 6.4 | 44 |
| 19 | Projected increases in near-surface air temperature over Ontario, Canada: a regional climate modeling approach. <i>Climate Dynamics</i> , 2015 , 45, 1381-1393 | 4.2 | 21 |
| 18 | A stepwise-cluster forecasting approach for monthly streamflows based on climate teleconnections. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1557-1569 | 3.5 | 32 |
| 17 | Development of a Stepwise-Clustered Hydrological Inference Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04015008 | 1.8 | 27 |
| 16 | Ensemble Projections of Regional Climatic Changes over Ontario, Canada. <i>Journal of Climate</i> , 2015 , 28, 7327-7346 | 4.4 | 41 |

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| 15 | An open-source software package for multivariate modeling and clustering: applications to air quality management. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 14220-33 | 5.1 | 12 |
| 14 | Impacts assessment of air emissions from point sources in Saskatchewan, Canada: A spatial analysis approach. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 304-313 | 2.5 | 4 |
| 13 | Violation analysis on two-step method for interval linear programming. <i>Information Sciences</i> , 2014 , 281, 85-96 | 7.7 | 26 |
| 12 | High-Resolution Probabilistic Projections of Temperature Changes over Ontario, Canada. <i>Journal of Climate</i> , 2014 , 27, 5259-5284 | 4.4 | 33 |
| 11 | 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, 13,271-13,286 | 4.4 | 39 |
| 10 | A stepwise cluster analysis approach for downscaled climate projection: A Canadian case study. <i>Environmental Modelling and Software</i> , 2013 , 49, 141-151 | 5.2 | 57 |
| 9 | Robust Fully Fuzzy Programming with Fuzzy Set Ranking Method for Environmental Systems Planning Under Uncertainty. <i>Environmental Engineering Science</i> , 2013 , 30, 280-293 | 2 | 7 |
| 8 | An interval mixed-integer non-linear programming model to support regional electric power systems planning with CO ₂ capture and storage under uncertainty. <i>Environmental Systems Research</i> , 2012 , 1, 1 | 4.3 | 4 |
| 7 | Research and Application of a Data-driven Platform for Sustainable Development of Energy, Economy and Environment 2009 , | | 2 |
| 6 | 2009 , | | 1 |
| 5 | Evaluation of the temperature downscaling performance of PRECIS to the BCC-CSM2-MR model over China. <i>Climate Dynamics</i> ,1 | 4.2 | 0 |
| 4 | Sorption of Phenanthrene onto Diatomite under the Influences of Solution Chemistry: A Study of Linear Sorption based on Maximal Information Coefficient. <i>Journal of Environmental Informatics</i> , | 3 | 6 |
| 3 | Forecasting daily evapotranspiration using artificial neural networks for sustainable irrigation scheduling. <i>Irrigation Science</i> ,1 | 3.1 | 2 |
| 2 | Bayesian model averaging of the RegCM temperature projections: a Canadian case study. <i>Journal of Water and Climate Change</i> , | 2.3 | 1 |
| 1 | Future climate projections for Eastern Canada. <i>Climate Dynamics</i> ,1 | 4.2 | |