# Shuo Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1354106/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 71<br>papers | 1,711<br>citations | 249298<br>26<br>h-index | 371746<br>37<br>g-index |
| 74<br>all docs | 74<br>docs citations | 74<br>times ranked | 1410<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A weighted ensemble of regional climate projections for exploring the spatiotemporal evolution of multidimensional drought risks in a changing climate. Climate Dynamics, 2022, 58, 49-68. | 1.7 | 6 |
| 2 | Increased occurrence of dayâ€"night hot extremes in a warming climate. Climate Dynamics, 2022, 59, 1297-1307. | 1.7 | 7 |
| 3 | A Stepwise Clustered Hydrological Model for Addressing the Temporal Autocorrelation of Daily Streamflows in Irrigated Watersheds. Water Resources Research, 2022, 58, . | 1.7 | 9 |
| 4 | Accelerating flash droughts induced by the joint influence of soil moisture depletion and atmospheric aridity. Nature Communications, 2022, 13, 1139. | 5.8 | 70 |
| 5 | Hydroclimatic extremes and impacts in a changing environment: Observations, mechanisms, and projections. Journal of Hydrology, 2022, 608, 127615. | 2.3 | 4 |
| 6 | Development of a stochastic hydrological modeling system for improving ensemble streamflow prediction. Journal of Hydrology, 2022, 608, 127683. | 2.3 | 9 |
| 7 | Comprehensive Optimization Framework for Low Impact Development Facility Layout Design with Costâ€"Benefit Analysis: A Case Study in Shenzhen City, China. ACS ES&T Water, 2022, 2, 63-74. | 2.3 | 11 |
| 8 | A Vine Copulaâ€Based Polynomial Chaos Framework for Improving Multiâ€Model Hydroclimatic Projections at a Multiâ€Decadal Convectionâ€Permitting Scale. Water Resources Research, 2022, 58, . | 1.7 | 10 |
| 9 | Development of a Joint Probabilistic Rainfallâ€Runoff Model for Highâ€toâ€Extreme Flow Projections Under Changing Climatic Conditions. Water Resources Research, 2022, 58, . | 1.7 | 7 |
| 10 | Recent Increase in the Occurrence of Snow Droughts Followed by Extreme Heatwaves in a Warmer World. Geophysical Research Letters, 2022, 49, . | 1.5 | 8 |
| 11 | Probabilistic Projections of Multidimensional Flood Risks at a Convectionâ€Permitting Scale. Water Resources Research, 2021, 57, . | 1.7 | 21 |
| 12 | Probabilistic Characterization of Extreme Storm Surges Induced by Tropical Cyclones. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033557. | 1.2 | 10 |
| 13 | Multi-decadal convection-permitting climate projections for Chinaâ€™s Greater Bay Area and surroundings. Climate Dynamics, 2021, 57, 415-434. | 1.7 | 13 |
| 14 | Adapting to Changing Labor Productivity as a Result of Intensified Heat Stress in a Changing Climate. GeoHealth, 2021, 5, e2020GH000313. | 1.9 | 10 |
| 15 | Bering Sea marine heatwaves: Patterns, trends and connections with the Arctic. Journal of Hydrology, 2021, 600, 126462. | 2.3 | 28 |
| 16 | Upholding labor productivity with intensified heat stress: Robust planning for adaptation to climate change under uncertainty. Journal of Cleaner Production, 2021, 322, 129083. | 4.6 | 4 |
| 17 | Higher Probability of Occurrence of Hotter and Shorter Heat Waves Followed by Heavy Rainfall. Geophysical Research Letters, 2021, 48, e2021GL094831. | 1.5 | 37 |
| 18 | Temporal-Spatial changes of monthly vegetation growth and their driving forces in the ancient Yellow river irrigation system, China. Journal of Contaminant Hydrology, 2021, 243, 103911. | 1.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Higher Temperature Enhances Spatiotemporal Concentration of Rainfall. Journal of Hydrometeorology, 2021, 22, 3159-3169. | 0.7 | 5 |
| 20 | Amplified or exaggerated changes in perceived temperature extremes under global warming. Climate Dynamics, 2020, 54, 117-127. | 1.7 | 15 |
| 21 | Improving remote sensing based evapotranspiration modelling in a heterogeneous urban environment. Journal of Hydrology, 2020, 581, 124405. | 2.3 | 22 |
| 22 | Ultra-high resolution regional climate projections for assessing changes in hydrological extremes and underlying uncertainties. Climate Dynamics, 2020, 55, 2031-2051. | 1.7 | 18 |
| 23 | Projected Changes in Abrupt Shifts Between Dry and Wet Extremes Over China Through an Ensemble of Regional Climate Model Simulations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033894. | 1.2 | 31 |
| 24 | Assessment of climate change impacts on energy capacity planning in Ontario, Canada using high-resolution regional climate model. Journal of Cleaner Production, 2020, 274, 123026. | 4.6 | 19 |
| 25 | Probabilistic Projections of Hydrological Droughts Through Convectionâ€Permitting Climate Simulations and Multimodel Hydrological Predictions. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032914. | 1.2 | 8 |
| 26 | Exploring Abrupt Alternations Between Wet and Dry Conditions on the Basis of Historical Observations and Convectionâ€Permitting Climate Model Simulations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031982. | 1.2 | 32 |
| 27 | Sea surface temperature variability in the Arctic Ocean and its marginal seas in a changing climate: Patterns and mechanisms. Global and Planetary Change, 2020, 193, 103265. | 1.6 | 36 |
| 28 | Copulaâ€Based Convectionâ€Permitting Projections of Future Changes in Multivariate Drought Characteristics. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7460-7483. | 1.2 | 35 |
| 29 | Market-based stochastic optimization of water resources systems for improving drought resilience and economic efficiency in arid regions. Journal of Cleaner Production, 2019, 233, 522-537. | 4.6 | 29 |
| 30 | â€œDry gets drier, wet gets wetterâ€• A case study over the arid regions of central Asia. International Journal of Climatology, 2019, 39, 1072-1091. | 1.5 | 88 |
| 31 | Improving probabilistic hydroclimatic projections through high-resolution convection-permitting climate modeling and Markov chain Monte Carlo simulations. Climate Dynamics, 2019, 53, 1613-1636. | 1.7 | 31 |
| 32 | Assessing Climate Change Impacts on Humanâ€Perceived Temperature Extremes and Underlying Uncertainties. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3800-3821. | 1.2 | 31 |
| 33 | Characterizing the Indian Ocean sea level changes and potential coastal flooding impacts under global warming. Journal of Hydrology, 2019, 569, 373-386. | 2.3 | 29 |
| 34 | Improving Robustness of Hydrologic Ensemble Predictions Through Probabilistic Preâ€•and Postâ€Processing in Sequential Data Assimilation. Water Resources Research, 2018, 54, 2129-2151. | 1.7 | 51 |
| 35 | Diagnostic Evaluation and Uncertainty Quantification of Earth and Environmental Systems Models. Mathematical Problems in Engineering, 2018, 2018, 1-2. | 0.6 | 0 |
| 36 | Towards robust quantification and reduction of uncertainty in hydrologic predictions: Integration of particle Markov chain Monte Carlo and factorial polynomial chaos expansion. Journal of Hydrology, 2017, 548, 484-497. | 2.3 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | CVaR-based factorial stochastic optimization of water resources systems with correlated uncertainties. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1543-1553. | 1.9 | 16 |
| 38 | Examining dynamic interactions among experimental factors influencing hydrologic data assimilation with the ensemble Kalman filter. Journal of Hydrology, 2017, 554, 743-757. | 2.3 | 17 |
| 39 | A risk-based interactive multi-stage stochastic programming approach for water resources planning under dual uncertainties. Advances in Water Resources, 2016, 94, 217-230. | 1.7 | 27 |
| 40 | 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 |
| 41 | Factorial fuzzy programming for planning water resources management systems. Journal of Environmental Planning and Management, 2016, 59, 1855-1872. | 2.4 | 8 |
| 42 | A copula-based chance-constrained waste management planning method: An application to the city of Regina, Saskatchewan, Canada. Journal of the Air and Waste Management Association, 2016, 66, 307-328. | 0.9 | 22 |
| 43 | A fractional-factorial probabilistic-possibilistic optimization framework for planning water resources management systems with multi-level parametric interactions. Journal of Environmental Management, 2016, 172, 97-106. | 3.8 | 21 |
| 44 | Water resources management under dual uncertainties: a factorial fuzzy two-stage stochastic programming approach. Stochastic Environmental Research and Risk Assessment, 2016, 30, 795-811. | 1.9 | 24 |
| 45 | Probabilistic Inference Coupled with Possibilistic Reasoning for Robust Estimation of Hydrologic Parameters and Piecewise Characterization of Interactive Uncertainties. Journal of Hydrometeorology, 2016, 17, 1243-1260. | 0.7 | 17 |
| 46 | Risk-based factorial probabilistic inference for optimization of flood control systems with correlated uncertainties. European Journal of Operational Research, 2016, 249, 258-269. | 3.5 | 9 |
| 47 | A stochastic programming with imprecise probabilities model for planning water resources systems under multiple uncertainties. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2169-2178. | 1.9 | 10 |
| 48 | Water resources management under uncertainty: factorial multi-stage stochastic program with chance constraints. Stochastic Environmental Research and Risk Assessment, 2016, 30, 945-957. | 1.9 | 33 |
| 49 | A polynomial chaos ensemble hydrologic prediction system for efficient parameter inference and robust uncertainty assessment. Journal of Hydrology, 2015, 530, 716-733. | 2.3 | 38 |
| 50 | An Inexact Probabilisticâ€"Possibilistic Optimization Framework for Flood Management in a Hybrid Uncertain Environment. IEEE Transactions on Fuzzy Systems, 2015, 23, 897-908. | 6.5 | 31 |
| 51 | Inexact Probabilistic Optimization Model and Its Application to Flood Diversion Planning in a Dynamic and Uncertain Environment. Journal of Water Resources Planning and Management - ASCE, 2015, 141, . | 1.3 | 11 |
| 52 | A fractional factorial probabilistic collocation method for uncertainty propagation of hydrologic model parameters in a reduced dimensional space. Journal of Hydrology, 2015, 529, 1129-1146. | 2.3 | 30 |
| 53 | A multi-level Taguchi-factorial two-stage stochastic programming approach for characterization of parameter uncertainties and their interactions: An application to water resources management. European Journal of Operational Research, 2015, 240, 572-581. | 3.5 | 75 |
| 54 | Comparison of interpolation methods for estimating spatial distribution of precipitation in Ontario, Canada. International Journal of Climatology, 2014, 34, 3745-3751. | 1.5 | 74 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | An integrated approach for water resources decision making under interactive and compound uncertainties. Omega, 2014, 44, 32-40. | 3.6 | 45 |
| 56 | An interval-parameter two-stage stochastic fuzzy program with type-2 membership functions: an application to water resources management. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1493-1506. | 1.9 | 25 |
| 57 | Interactive Fuzzy Boundary Interval Programming for Air Quality Management Under Uncertainty. Water, Air, and Soil Pollution, 2013, 224, 1. | 1.1 | 18 |
| 58 | A sequential factorial analysis approach to characterize the effects of uncertainties for supporting air quality management. Atmospheric Environment, 2013, 67, 304-312. | 1.9 | 27 |
| 59 | A coupled factorial-analysis-based interval programming approach and its application to air quality management. Journal of the Air and Waste Management Association, 2013, 63, 179-189. | 0.9 | 7 |
| 60 | Improved solubilities of PAHs by multi-component Gemini surfactant systems with different spacer lengths. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 423, 50-57. | 2.3 | 32 |
| 61 | A two-stage mixed-integer fuzzy programming with interval-valued membership functions approach for flood-diversion planning. Journal of Environmental Management, 2013, 117, 208-218. | 3.8 | 31 |
| 62 | Simulation-Based Variance Components Analysis for Characterization of Interaction Effects of Random Factors on Trichloroethylene Vapor Transport in Unsaturated Porous Media. Industrial & Engineering Chemistry Research, 2013, 52, 8602-8611. | 1.8 | 4 |
| 63 | An Optimization-Based Study to Analyze the Impacts of Clean Energy and Carbon Emission Mechanisms on Inter-Regional Energy Exchange. Journal of Environmental Informatics, 2013, , 123-130. | 6.0 | 8 |
| 64 | Changes in annual maximum number of consecutive dry and wet days during 1961â€“2008 in Xinjiang, China. Natural Hazards and Earth System Sciences, 2012, 12, 1353-1365. | 1.5 | 11 |
| 65 | Identifying Optimal Water Resources Allocation Strategies through an Interactive Multi-Stage Stochastic Fuzzy Programming Approach. Water Resources Management, 2012, 26, 2015-2038. | 1.9 | 45 |
| 66 | An interval-valued fuzzy-stochastic programming approach and its application to municipal solid waste management. Environmental Modelling and Software, 2012, 29, 24-36. | 1.9 | 55 |
| 67 | Development of a clusterwise-linear-regression-based forecasting system for characterizing DNAPL dissolution behaviors in porous media. Science of the Total Environment, 2012, 433, 141-150. | 3.9 | 26 |
| 68 | Quasi-Monte Carlo based global uncertainty and sensitivity analysis in modeling free product migration and recovery from petroleum-contaminated aquifers. Journal of Hazardous Materials, 2012, 219-220, 133-140. | 6.5 | 15 |
| 69 | Study of Energy Saving and Emission Reduction based on the OLAP Multi-Indicator Relational Model. Journal of Environmental Informatics, 2012, , 115-122. | 6.0 | 16 |
| 70 | An interval-valued fuzzy linear programming with infinite Î±-cuts method for environmental management under uncertainty. Stochastic Environmental Research and Risk Assessment, 2011, 25, 211-222. | 1.9 | 36 |
| 71 | Interactive two-stage stochastic fuzzy programming for water resources management. Journal of Environmental Management, 2011, 92, 1986-1995. | 3.8 | 64 |