

Y R Fan

List of Publications by Year in descending order

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103
papers

2,549
citations

147566

31
h-index

253896

43
g-index

108
all docs

108
docs citations

108
times ranked

1776
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Robust Two-Step Method for Solving Interval Linear Programming Problems within an Environmental Management Context. <i>Journal of Environmental Informatics</i> , 2012, 19, 1-9. | 6.0 | 123 |
| 2 | 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 |
| 3 | Comparison of interpolation methods for estimating spatial distribution of precipitation in Ontario, Canada. <i>International Journal of Climatology</i> , 2014, 34, 3745-3751. | 1.5 | 74 |
| 4 | Planning water-energy-food nexus system management under multi-level and uncertainty. <i>Journal of Cleaner Production</i> , 2020, 251, 119658. | 4.6 | 62 |
| 5 | Generalized fuzzy linear programming for decision making under uncertainty: Feasibility of fuzzy solutions and solving approach. <i>Information Sciences</i> , 2013, 241, 12-27. | 4.0 | 58 |
| 6 | Maximum entropy-Gumbel-Hougaard copula method for simulation of monthly streamflow in Xiangxi river, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 833-846. | 1.9 | 58 |
| 7 | 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 |
| 8 | Hydrologic risk analysis in the Yangtze River basin through coupling Gaussian mixtures into copulas. <i>Advances in Water Resources</i> , 2016, 88, 170-185. | 1.7 | 56 |
| 9 | Crop planning and water resource allocation for sustainable development of an irrigation region in China under multiple uncertainties. <i>Agricultural Water Management</i> , 2016, 166, 53-69. | 2.4 | 56 |
| 10 | A copula-based flexible-stochastic programming method for planning regional energy system under multiple uncertainties: A case study of the urban agglomeration of Beijing and Tianjin. <i>Applied Energy</i> , 2018, 210, 60-74. | 5.1 | 55 |
| 11 | A nonlinear fractional programming approach for environmental-economic power dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 78, 463-469. | 3.3 | 53 |
| 12 | 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 |
| 13 | Evaluation of remedial options for a benzene-contaminated site through a simulation-based fuzzy-MCDA approach. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 421-433. | 6.5 | 47 |
| 14 | Bivariate hydrologic risk analysis based on a coupled entropy-copula method for the Xiangxi River in the Three Gorges Reservoir area, China. <i>Theoretical and Applied Climatology</i> , 2016, 125, 381-397. | 1.3 | 46 |
| 15 | A copula-based fuzzy chance-constrained programming model and its application to electric power generation systems planning. <i>Applied Energy</i> , 2017, 187, 291-309. | 5.1 | 46 |
| 16 | Analyzing climate change impacts on water resources under uncertainty using an integrated simulation-optimization approach. <i>Journal of Hydrology</i> , 2018, 556, 523-538. | 2.3 | 45 |
| 17 | Development of a copula-based particle filter (Cop PF) approach for hydrologic data assimilation under consideration of parameter interdependence. <i>Water Resources Research</i> , 2017, 53, 4850-4875. | 1.7 | 41 |
| 18 | A PCM-based stochastic hydrological model for uncertainty quantification in watershed systems. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 915-927. | 1.9 | 40 |

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|----|--|-----|-----------|
| 19 | A Bayesian-based multilevel factorial analysis method for analyzing parameter uncertainty of hydrological model. <i>Journal of Hydrology</i> , 2017, 553, 750-762. | 2.3 | 40 |
| 20 | Planning of municipal solid waste management systems under dual uncertainties: a hybrid interval stochastic programming approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 707-720. | 1.9 | 39 |
| 21 | Parameter uncertainty and temporal dynamics of sensitivity for hydrologic models: A hybrid sequential data assimilation and probabilistic collocation method. <i>Environmental Modelling and Software</i> , 2016, 86, 30-49. | 1.9 | 39 |
| 22 | Planning renewable energy in electric power system for sustainable development under uncertainty – A case study of Beijing. <i>Applied Energy</i> , 2016, 162, 772-786. | 5.1 | 39 |
| 23 | 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 |
| 24 | Development of a Stepwise-Clustered Hydrological Inference Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, . | 0.8 | 38 |
| 25 | 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 |
| 26 | A copula-based fuzzy interval-random programming approach for planning water-energy nexus system under uncertainty. <i>Energy</i> , 2020, 196, 117063. | 4.5 | 38 |
| 27 | Planning Water Resources Allocation Under Multiple Uncertainties Through a Generalized Fuzzy Two-Stage Stochastic Programming Method. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 1488-1504. | 6.5 | 37 |
| 28 | Multivariate flood risk analysis for Wei River. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 225-242. | 1.9 | 37 |
| 29 | Enhanced aqueous solubility of naphthalene and pyrene by binary and ternary Gemini cationic and conventional nonionic surfactants. <i>Chemosphere</i> , 2012, 89, 1347-1353. | 4.2 | 35 |
| 30 | Inexact two-stage stochastic partial programming: application to water resources management under uncertainty. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 281-293. | 1.9 | 35 |
| 31 | Optimization of uncertain agricultural management considering the framework of water, energy and food. <i>Agricultural Water Management</i> , 2021, 253, 106907. | 2.4 | 35 |
| 32 | A Hybrid Dynamic Dual Interval Programming for Irrigation Water Allocation under Uncertainty. <i>Water Resources Management</i> , 2012, 26, 1183-1200. | 1.9 | 33 |
| 33 | Water resources management under uncertainty: factorial multi-stage stochastic program with chance constraints. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 945-957. | 1.9 | 33 |
| 34 | A coupled ensemble filtering and probabilistic collocation approach for uncertainty quantification of hydrological models. <i>Journal of Hydrology</i> , 2015, 530, 255-272. | 2.3 | 31 |
| 35 | Robust interval linear programming for environmental decision making under uncertainty. <i>Engineering Optimization</i> , 2012, 44, 1321-1336. | 1.5 | 30 |
| 36 | A fractional factorial probabilistic collocation method for uncertainty propagation of hydrologic model parameters in a reduced dimensional space. <i>Journal of Hydrology</i> , 2015, 529, 1129-1146. | 2.3 | 30 |

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|----|--|-----|-----------|
| 37 | Robust Subsampling ANOVA Methods for Sensitivity Analysis of Water Resource and Environmental Models. <i>Water Resources Management</i> , 2020, 34, 3199-3217. | 1.9 | 30 |
| 38 | A simulation-based water-environment management model for regional sustainability in compound wetland ecosystem under multiple uncertainties. <i>Ecological Modelling</i> , 2016, 334, 60-77. | 1.2 | 29 |
| 39 | A fuzzy linear programming approach for municipal solid-waste management under uncertainty. <i>Engineering Optimization</i> , 2009, 41, 1081-1101. | 1.5 | 28 |
| 40 | Development of integrated approaches for hydrological data assimilation through combination of ensemble Kalman filter and particle filter methods. <i>Journal of Hydrology</i> , 2017, 550, 412-426. | 2.3 | 28 |
| 41 | A generalized fuzzy linear programming approach for environmental management problem under uncertainty. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 72-86. | 0.9 | 27 |
| 42 | Planning regional-scale electric power systems under uncertainty: A case study of Jing-Jin-Ji region, China. <i>Applied Energy</i> , 2018, 212, 834-849. | 5.1 | 27 |
| 43 | A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. <i>Climate Dynamics</i> , 2018, 51, 2413-2431. | 1.7 | 27 |
| 44 | A linearization and parameterization approach to tri-objective linear programming problems for power generation expansion planning. <i>Energy</i> , 2015, 87, 240-250. | 4.5 | 26 |
| 45 | Coupling the two-level programming and copula for optimizing energy-water nexus system management – A case study of Henan Province. <i>Journal of Hydrology</i> , 2020, 586, 124832. | 2.3 | 26 |
| 46 | A dynamic model to optimize municipal electric power systems by considering carbon emission trading under uncertainty. <i>Energy</i> , 2015, 88, 636-649. | 4.5 | 25 |
| 47 | 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 |
| 48 | A Robust Inexact Joint-optimal α -cut Interval Type-2 Fuzzy Boundary Linear Programming (RIJ-IT2FBLP) for energy systems planning under uncertainty. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 56, 19-32. | 3.3 | 22 |
| 49 | A copula-based chance-constrained waste management planning method: An application to the city of Regina, Saskatchewan, Canada. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 307-328. | 0.9 | 22 |
| 50 | Inexact Copula-Based Stochastic Programming Method for Water Resources Management under Multiple Uncertainties. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, . | 1.3 | 22 |
| 51 | Inexact fuzzy two-stage programming for water resources management in an environment of fuzziness and randomness. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 261-280. | 1.9 | 21 |
| 52 | Evaluating water-energy-food system of Yellow River basin based on type-2 fuzzy sets and Pressure-State-Response model. <i>Agricultural Water Management</i> , 2022, 267, 107607. | 2.4 | 20 |
| 53 | Risk analysis for water resources management under dual uncertainties through factorial analysis and fuzzy random value-at-risk. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 2265-2280. | 1.9 | 19 |
| 54 | Inexact Multistage Fuzzy-Stochastic Programming Model for Water Resources Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, 04015027. | 1.3 | 18 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | An uncertainty partition approach for inferring interactive hydrologic risks. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4601-4624. | 1.9 | 18 |
| 57 | Factorial Two-Stage Irrigation System Optimization Model. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016, 142, . | 0.6 | 17 |
| 58 | Uncertainty Quantification for Multivariate Eco-Hydrological Risk in the Xiangxi River within the Three Gorges Reservoir Area in China. <i>Engineering</i> , 2018, 4, 617-626. | 3.2 | 17 |
| 59 | Examining dynamic interactions among experimental factors influencing hydrologic data assimilation with the ensemble Kalman filter. <i>Journal of Hydrology</i> , 2017, 554, 743-757. | 2.3 | 17 |
| 60 | A generalized fuzzy chance-constrained energy systems planning model for Guangzhou, China. <i>Energy</i> , 2018, 165, 191-204. | 4.5 | 16 |
| 61 | Development of clustered polynomial chaos expansion model for stochastic hydrological prediction. <i>Journal of Hydrology</i> , 2021, 595, 126022. | 2.3 | 16 |
| 62 | A pseudo-optimal inexact stochastic interval T2 fuzzy sets approach for energy and environmental systems planning under uncertainty: A case study for Xiamen City of China. <i>Applied Energy</i> , 2015, 138, 71-90. | 5.1 | 15 |
| 63 | A duality theorem-based algorithm for inexact quadratic programming problems: Application to waste management under uncertainty. <i>Engineering Optimization</i> , 2016, 48, 562-581. | 1.5 | 15 |
| 64 | A factorial Bayesian copula framework for partitioning uncertainties in multivariate risk inference. <i>Environmental Research</i> , 2020, 183, 109215. | 3.7 | 15 |
| 65 | Solid waste management under uncertainty: a generalized fuzzy linear programming approach. <i>Civil Engineering and Environmental Systems</i> , 2014, 31, 331-346. | 0.4 | 13 |
| 66 | Future changes of temperature and heat waves in Ontario, Canada. <i>Theoretical and Applied Climatology</i> , 2018, 132, 1029-1038. | 1.3 | 13 |
| 67 | Multi-preference based interval fuzzy-credibility optimization for planning the management of multiple water resources with multiple water-receiving cities under uncertainty. <i>Journal of Hydrology</i> , 2020, 591, 125259. | 2.3 | 13 |
| 68 | An interval joint-probabilistic stochastic flexible programming method for planning municipal-scale energy-water nexus system under uncertainty. <i>Energy Conversion and Management</i> , 2020, 208, 112576. | 4.4 | 13 |
| 69 | Development of a Maximum Entropy-Archimedean Copula-Based Bayesian Network Method for Streamflow Frequency Analysis—A Case Study of the Kaidu River Basin, China. <i>Water (Switzerland)</i> , 2019, 11, 42. | 1.2 | 12 |
| 70 | 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, . | 1.7 | 12 |
| 71 | Development of a disaggregated multi-level factorial hydrologic data assimilation model. <i>Journal of Hydrology</i> , 2022, 610, 127802. | 2.3 | 11 |
| 72 | A Fuzzy Simulation-Based Optimization Approach for Groundwater Remediation Design at Contaminated Aquifers. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-13. | 0.6 | 10 |

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|----|---|-----|-----------|
| 73 | Parameter Uncertainty and Sensitivity Evaluation of Copula-Based Multivariate Hydroclimatic Risk Assessment. <i>Journal of Environmental Informatics</i> , 0, , . | 6.0 | 10 |
| 74 | An Integrated Risk Analysis Method for Planning Water Resource Systems to Support Sustainable Development of An Arid Region. <i>Journal of Environmental Informatics</i> , 2017, , . | 6.0 | 10 |
| 75 | Synergetic management of water-energy-food nexus system and GHG emissions under multiple uncertainties: An inexact fractional fuzzy chance constraint programming method. <i>Agricultural Water Management</i> , 2022, 262, 107323. | 2.4 | 10 |
| 76 | Development of an integrated PCA-SCA-ANOVA framework for assessing multi-factor effects on water flow: A case study of the Aral Sea. <i>Catena</i> , 2021, 197, 104954. | 2.2 | 9 |
| 77 | Modelling Dependence between Traffic Noise and Traffic Flow through An Entropy-Copula Method. <i>Journal of Environmental Informatics</i> , 0, , . | 6.0 | 9 |
| 78 | Inexact Fuzzy Stochastic Chance Constraint Programming for Emergency Evacuation in Qinshan Nuclear Power Plant under Uncertainty. <i>Journal of Environmental Informatics</i> , 2017, , . | 6.0 | 9 |
| 79 | Characterization of noise reduction capabilities of porous materials under various vacuum conditions. <i>Applied Acoustics</i> , 2020, 161, 107155. | 1.7 | 8 |
| 80 | Multi-Indicator Evaluation for Extreme Precipitation Events in the Past 60 Years over the Loess Plateau. <i>Water (Switzerland)</i> , 2020, 12, 193. | 1.2 | 8 |
| 81 | 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> , 0, , . | 6.0 | 8 |
| 82 | Tracing Uncertainty Contributors in the Multi-Hazard Risk Analysis for Compound Extremes. <i>Earth's Future</i> , 2021, 9, . | 2.4 | 8 |
| 83 | A Fuzzy-Interval Dynamic Optimization Model for Regional Water Resources Allocation under Uncertainty. <i>Sustainability</i> , 2022, 14, 1096. | 1.6 | 7 |
| 84 | Uncertainty quantification and partition for multivariate risk inferences through a factorial multimodel Bayesian copula (FMBC) system. <i>Journal of Hydrology</i> , 2021, 598, 126406. | 2.3 | 6 |
| 85 | Characterizing Impact Factors on the Performance of Data Assimilation for Hydroclimatic Predictions through Multilevel Factorial Analysis. <i>Journal of Environmental Informatics</i> , 0, , . | 6.0 | 6 |
| 86 | Multivariate Hydrologic Risk Analysis for River Thames. <i>Water (Switzerland)</i> , 2022, 14, 384. | 1.2 | 6 |
| 87 | Planning regional-scale water-energy-food nexus system management under uncertainty: An inexact fractional programming method. <i>Journal of Contaminant Hydrology</i> , 2022, 247, 103985. | 1.6 | 6 |
| 88 | An Inventory-Theory-Based Inexact Multistage Stochastic Programming Model for Water Resources Management. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-15. | 0.6 | 5 |
| 89 | A multicriteria small modular reactor site selection model under long-term variations of climatic conditions – A case study for the province of Saskatchewan, Canada. <i>Journal of Cleaner Production</i> , 2021, 290, 125651. | 4.6 | 5 |
| 90 | Towards reliable uncertainty quantification for hydrologic predictions, part II: Characterizing impacts of uncertain factors through an iterative factorial data assimilation framework. <i>Journal of Hydrology</i> , 2022, 612, 128136. | 2.3 | 4 |

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|-----|--|-----|-----------|
| 91 | Inexact fuzzy integer chance constraint programming approach for noise control within an urban environment. <i>Engineering Optimization</i> , 2016, 48, 1350-1364. | 1.5 | 3 |
| 92 | A multistage scenario-based inexact fuzzy-stochastic chance-constrained programming for water resources management under uncertainty. , 2010, , . | | 2 |
| 93 | A Generalized Fuzzy Integer Programming Approach for Environmental Management under Uncertainty. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-16. | 0.6 | 2 |
| 94 | A Semi-Infinite Interval-Stochastic Risk Management Model for River Water Pollution Control under Uncertainty. <i>Water (Switzerland)</i> , 2017, 9, 351. | 1.2 | 2 |
| 95 | An Integrated Simulation, Inference and Optimization Approach for Groundwater Remediation with Two-Stage Health-Risk Assessment. <i>Water (Switzerland)</i> , 2018, 10, 694. | 1.2 | 2 |
| 96 | Correlation Study of Rainfall and Runoff in Xiangxi River Based on Archimedean Copula Function. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 223, 012055. | 0.2 | 2 |
| 97 | Electronic Transport Characteristics of Gallium Nitride Nanowire-based Nanocircuits. , 0, , . | | 1 |
| 98 | Temporal and Spatial Characteristics of Multidimensional Extreme Precipitation Indicators: A Case Study in the Loess Plateau, China. <i>Water (Switzerland)</i> , 2020, 12, 1217. | 1.2 | 1 |
| 99 | A Nested Ensemble Filtering Approach for Parameter Estimation and Uncertainty Quantification of Traffic Noise Models. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 204. | 1.3 | 1 |
| 100 | Electronic Transport Characteristics of Gallium Nitride Nanowire-based Nanocircuits. , 2006, , . | | 0 |
| 101 | A Multistage Distribution-Generation Planning Model for Clean Power Generation under Multiple Uncertaintiesâ€”A Case Study of Urumqi, China. <i>Sustainability</i> , 2018, 10, 3263. | 1.6 | 0 |
| 102 | FCVLP: A Fuzzy Random Conditional Value-at-Risk-Based Linear Programming Model for Municipal Solid Waste Management. <i>Climate</i> , 2019, 7, 80. | 1.2 | 0 |
| 103 | Editorial: Future Climate Scenarios: Regional Climate Modelling and Data Analysis. <i>Frontiers in Environmental Science</i> , 2022, 10, . | 1.5 | 0 |