Y R Fan

List of Publications by Year in Descending Order

99 papers	1,857 citations	27 h-index	36 g-index
107 ext. papers	2,229 ext. citations	4.9 avg, IF	5.38 L-index

#	Paper	IF	Citations
99	Multivariate Hydrologic Risk Analysis for River Thames. *Water (Switzerland)*, **2022**, 14, 384	3	0
98	A Fuzzy-Interval Dynamic Optimization Model for Regional Water Resources Allocation under Uncertainty. *Sustainability*, **2022**, 14, 1096	3.6	3
97	Planning regional-scale water-energy-food nexus system management under uncertainty: An inexact fractional programming method.. *Journal of Contaminant Hydrology*, **2022**, 247, 103985	3.9	1
96	Evaluating water-energy-food system of Yellow River basin based on type-2 fuzzy sets and Pressure-State-Response model. *Agricultural Water Management*, **2022**, 267, 107607	5.9	0
95	Development of a disaggregated multi-level factorial hydrologic data assimilation model. *Journal of Hydrology*, **2022**, 127802	6	0
94	Tracing Uncertainty Contributors in the Multi-Hazard Risk Analysis for Compound Extremes. *Earths Future*, **2021**, 9,	7.9	1
93	Synergetic management of water-energy-food nexus system and GHG emissions under multiple uncertainties: An inexact fractional fuzzy chance constraint programming method. *Agricultural Water Management*, **2021**, 262, 107323	5.9	2
92	A multicriteria small modular reactor site selection model under long-term variations of climatic conditions -- A case study for the province of Saskatchewan, Canada. *Journal of Cleaner Production*, **2021**, 290, 125651	10.3	3
91	Development of clustered polynomial chaos expansion model for stochastic hydrological prediction. *Journal of Hydrology*, **2021**, 595, 126022	6	6
90	Optimization of uncertain agricultural management considering the framework of water, energy and food. *Agricultural Water Management*, **2021**, 253, 106907	5.9	9
89	Uncertainty quantification and partition for multivariate risk inferences through a factorial multimodel Bayesian copula (FMBC) system. *Journal of Hydrology*, **2021**, 598, 126406	6	3
88	Vine Copula Ensemble Downscaling for Precipitation Projection Over the Loess Plateau Based on High-Resolution Multi-RCM Outputs. *Water Resources Research*, **2021**, 57,	5.4	4
87	Development of an integrated PCA-SCA-ANOVA framework for assessing multi-factor effects on water flow: A case study of the Aral Sea. *Catena*, **2021**, 197, 104954	5.8	4
86	Temporal and Spatial Characteristics of Multidimensional Extreme Precipitation Indicators: A Case Study in the Loess Plateau, China. *Water (Switzerland)*, **2020**, 12, 1217	3	
85	Multi-Indicator Evaluation for Extreme Precipitation Events in the Past 60 Years over the Loess Plateau. *Water (Switzerland)*, **2020**, 12, 193	3	3
84	A Nested Ensemble Filtering Approach for Parameter Estimation and Uncertainty Quantification of Traffic Noise Models. *Applied Sciences (Switzerland)*, **2020**, 10, 204	2.6	1
83	A factorial Bayesian copula framework for partitioning uncertainties in multivariate risk inference. *Environmental Research*, **2020**, 183, 109215	7.9	9

82	An interval joint-probabilistic stochastic flexible programming method for planning municipal-scale energy-water nexus system under uncertainty. *Energy Conversion and Management*, **2020**, 208, 112576	10.6	8
81	A copula-based fuzzy interval-random programming approach for planning water-energy nexus system under uncertainty. *Energy*, **2020**, 196, 117063	7.9	21
80	An uncertainty partition approach for inferring interactive hydrologic risks. *Hydrology and Earth System Sciences*, **2020**, 24, 4601-4624	5.5	11
79	Characterization of noise reduction capabilities of porous materials under various vacuum conditions. *Applied Acoustics*, **2020**, 161, 107155	3.1	4
78	Planning water-energy-food nexus system management under multi-level and uncertainty. *Journal of Cleaner Production*, **2020**, 251, 119658	10.3	36
77	Multi-preference based interval fuzzy-credibility optimization for planning the management of multiple water resources with multiple water-receiving cities under uncertainty. *Journal of Hydrology*, **2020**, 591, 125259	6	6
76	Robust Subsampling ANOVA Methods for Sensitivity Analysis of Water Resource and Environmental Models. *Water Resources Management*, **2020**, 34, 3199-3217	3.7	17
75	Coupling the two-level programming and copula for optimizing energy-water nexus system management ⊠A case study of Henan Province. *Journal of Hydrology*, **2020**, 586, 124832	6	16
74	FCVLP: A Fuzzy Random Conditional Value-at-Risk-Based Linear Programming Model for Municipal Solid Waste Management. *Climate*, **2019**, 7, 80	3.1	
73	Correlation Study of Rainfall and Runoff in Xiangxi River Based on Archimedean Copula Function. *IOP Conference Series: Earth and Environmental Science*, **2019**, 223, 012055	0.3	2
72	Development of a Maximum Entropy-Archimedean Copula-Based Bayesian Network Method for Streamflow Frequency Analysis⊠A Case Study of the Kaidu River Basin, China. *Water (Switzerland)*, **2019**, 11, 42	3	6
71	Drought Occurring With Hot Extremes: Changes Under Future Climate Change on Loess Plateau, China. *Earths Future*, **2019**, 7, 587-604	7.9	30
70	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. *Applied Energy*, **2018**, 210, 60-74	10.7	42
69	Planning regional-scale electric power systems under uncertainty: A case study of Jing-Jin-Ji region, China. *Applied Energy*, **2018**, 212, 834-849	10.7	23
68	A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. *Climate Dynamics*, **2018**, 51, 2413-2431	4.2	18
67	Future changes of temperature and heat waves in Ontario, Canada. *Theoretical and Applied Climatology*, **2018**, 132, 1029-1038	3	6
66	An Integrated Simulation, Inference and Optimization Approach for Groundwater Remediation with Two-Stage Health-Risk Assessment. *Water (Switzerland)*, **2018**, 10, 694	3	0
65	Inexact Copula-Based Stochastic Programming Method for Water Resources Management under Multiple Uncertainties. *Journal of Water Resources Planning and Management - ASCE*, **2018**, 144, 04018069	2.8	17

64	Analyzing climate change impacts on water resources under uncertainty using an integrated simulation-optimization approach. *Journal of Hydrology*, **2018**, 556, 523-538	6	29
63	A Multistage Distribution-Generation Planning Model for Clean Power Generation under Multiple Uncertainties—A Case Study of Urumqi, China. *Sustainability*, **2018**, 10, 3263	3.6	
62	Uncertainty Quantification for Multivariate Eco-Hydrological Risk in the Xiangxi River within the Three Gorges Reservoir Area in China. *Engineering*, **2018**, 4, 617-626	9.7	8
61	Hydrologic Impacts of Ensemble-RCM-Projected Climate Changes in the Athabasca River Basin, Canada. *Journal of Hydrometeorology*, **2018**, 19, 1953-1971	3.7	10
60	A generalized fuzzy chance-constrained energy systems planning model for Guangzhou, China. *Energy*, **2018**, 165, 191-204	7.9	13
59	Multivariate flood risk analysis for Wei River. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 225-242	3.5	25
58	Development of PCA-based cluster quantile regression (PCA-CQR) framework for streamflow prediction: Application to the Xiangxi river watershed, China. *Applied Soft Computing Journal*, **2017**, 51, 280-293	7.5	14
57	Risk analysis for water resources management under dual uncertainties through factorial analysis and fuzzy random value-at-risk. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 2265-2280	3.5	18
56	Development of integrated approaches for hydrological data assimilation through combination of ensemble Kalman filter and particle filter methods. *Journal of Hydrology*, **2017**, 550, 412-426	6	17
55	Development of a copula-based particle filter (CopPF) approach for hydrologic data assimilation under consideration of parameter interdependence. *Water Resources Research*, **2017**, 53, 4850-4875	5.4	33
54	A copula-based fuzzy chance-constrained programming model and its application to electric power generation systems planning. *Applied Energy*, **2017**, 187, 291-309	10.7	42
53	A Semi-Infinite Interval-Stochastic Risk Management Model for River Water Pollution Control under Uncertainty. *Water (Switzerland)*, **2017**, 9, 351	3	2
52	A Bayesian-based multilevel factorial analysis method for analyzing parameter uncertainty of hydrological model. *Journal of Hydrology*, **2017**, 553, 750-762	6	27
51	An Integrated Risk Analysis Method for Planning Water Resource Systems to Support Sustainable Development of An Arid Region. *Journal of Environmental Informatics*, **2017**,	3	7
50	Inexact Fuzzy Stochastic Chance Constraint Programming for Emergency Evacuation in Qinshan Nuclear Power Plant under Uncertainty. *Journal of Environmental Informatics*, **2017**,	3	7
49	Examining dynamic interactions among experimental factors influencing hydrologic data assimilation with the ensemble Kalman filter. *Journal of Hydrology*, **2017**, 554, 743-757	6	11
48	Water resources management under uncertainty: factorial multi-stage stochastic program with chance constraints. *Stochastic Environmental Research and Risk Assessment*, **2016**, 30, 945-957	3.5	32
47	Bivariate hydrologic risk analysis based on a coupled entropy-copula method for the Xiangxi River in the Three Gorges Reservoir area, China. *Theoretical and Applied Climatology*, **2016**, 125, 381-397	3	41

46	A simulation-based water-environment management model for regional sustainability in compound wetland ecosystem under multiple uncertainties. *Ecological Modelling*, **2016**, 334, 60-77	3	26
45	Hydrologic risk analysis in the Yangtze River basin through coupling Gaussian mixtures into copulas. *Advances in Water Resources*, **2016**, 88, 170-185	4.7	49
44	A duality theorem-based algorithm for inexact quadratic programming problems: Application to waste management under uncertainty. *Engineering Optimization*, **2016**, 48, 562-581	2	13
43	A nonlinear fractional programming approach for environmentaleconomic power dispatch. *International Journal of Electrical Power and Energy Systems*, **2016**, 78, 463-469	5.1	32
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, 307-28	2.4	18
41	Impacts of future climate change on river discharge based on hydrological inference: A case study of the Grand River Watershed in Ontario, Canada. *Science of the Total Environment*, **2016**, 548-549, 198-210	10.2	43
40	Crop planning and water resource allocation for sustainable development of an irrigation region in China under multiple uncertainties. *Agricultural Water Management*, **2016**, 166, 53-69	5.9	45
39	Planning renewable energy in electric power system for sustainable development under uncertainty A case study of Beijing. *Applied Energy*, **2016**, 162, 772-786	10.7	33
38	Factorial Two-Stage Irrigation System Optimization Model. *Journal of Irrigation and Drainage Engineering - ASCE*, **2016**, 142, 04015056	1.1	16
37	Inexact fuzzy integer chance constraint programming approach for noise control within an urban environment. *Engineering Optimization*, **2016**, 48, 1350-1364	2	2
36	Probabilistic Prediction for Monthly Streamflow through Coupling Stepwise Cluster Analysis and Quantile Regression Methods. *Water Resources Management*, **2016**, 30, 5313-5331	3.7	30
35	Parameter uncertainty and temporal dynamics of sensitivity for hydrologic models: A hybrid sequential data assimilation and probabilistic collocation method. *Environmental Modelling and Software*, **2016**, 86, 30-49	5.2	29
34	A PCM-based stochastic hydrological model for uncertainty quantification in watershed systems. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 915-927	3.5	37
33	A stepwise-cluster forecasting approach for monthly streamflows based on climate teleconnections. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 1557-1569	3.5	32
32	Development of a Stepwise-Clustered Hydrological Inference Model. *Journal of Hydrologic Engineering - ASCE*, **2015**, 20, 04015008	1.8	27
31	Planning Water Resources Allocation Under Multiple Uncertainties Through a Generalized Fuzzy Two-Stage Stochastic Programming Method. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 1488-1504	8.3	35
30	Inexact Multistage Fuzzy-Stochastic Programming Model for Water Resources Management. *Journal of Water Resources Planning and Management - ASCE*, **2015**, 141, 04015027	2.8	18
29	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	6	24

No.	Reference	IF	Cites
28	A dynamic model to optimize municipal electric power systems by considering carbon emission trading under uncertainty. *Energy*, **2015**, 88, 636-649	7.9	20
27	Maximum entropy-Gumbel-Hougaard copula method for simulation of monthly streamflow in Xiangxi river, China. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 833-846	3.5	49
26	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. *Applied Energy*, **2015**, 138, 71-90	10.7	13
25	A linearization and parameterization approach to tri-objective linear programming problems for power generation expansion planning. *Energy*, **2015**, 87, 240-250	7.9	19
24	A coupled ensemble filtering and probabilistic collocation approach for uncertainty quantification of hydrological models. *Journal of Hydrology*, **2015**, 530, 255-272	6	26
23	A Robust Inexact Joint-optimal α cut Interval Type-2 Fuzzy Boundary Linear Programming (RIJ-IT2FBLP) for energy systems planning under uncertainty. *International Journal of Electrical Power and Energy Systems*, **2014**, 56, 19-32	5.1	16
22	Solid waste management under uncertainty: a generalized fuzzy linear programming approach. *Civil Engineering and Environmental Systems*, **2014**, 31, 331-346	2.1	13
21	A Generalized Fuzzy Integer Programming Approach for Environmental Management under Uncertainty. *Mathematical Problems in Engineering*, **2014**, 2014, 1-16	1.1	1
20	Comparison of interpolation methods for estimating spatial distribution of precipitation in Ontario, Canada. *International Journal of Climatology*, **2014**, 34, 3745-3751	3.5	52
19	A stepwise cluster analysis approach for downscaled climate projection – A Canadian case study. *Environmental Modelling and Software*, **2013**, 49, 141-151	5.2	57
18	Generalized fuzzy linear programming for decision making under uncertainty: Feasibility of fuzzy solutions and solving approach. *Information Sciences*, **2013**, 241, 12-27	7.7	46
17	An Inventory-Theory-Based Inexact Multistage Stochastic Programming Model for Water Resources Management. *Mathematical Problems in Engineering*, **2013**, 2013, 1-15	1.1	5
16	Evaluation of remedial options for a benzene-contaminated site through a simulation-based fuzzy-MCDA approach. *Journal of Hazardous Materials*, **2012**, 213-214, 421-33	12.8	41
15	Inexact fuzzy two-stage programming for water resources management in an environment of fuzziness and randomness. *Stochastic Environmental Research and Risk Assessment*, **2012**, 26, 261-280	3.5	18
14	Inexact two-stage stochastic partial programming: application to water resources management under uncertainty. *Stochastic Environmental Research and Risk Assessment*, **2012**, 26, 281-293	3.5	31
13	Enhanced aqueous solubility of naphthalene and pyrene by binary and ternary Gemini cationic and conventional nonionic surfactants. *Chemosphere*, **2012**, 89, 1347-53	8.4	31
12	A Hybrid Dynamic Dual Interval Programming for Irrigation Water Allocation under Uncertainty. *Water Resources Management*, **2012**, 26, 1183-1200	3.7	26
11	A Fuzzy Simulation-Based Optimization Approach for Groundwater Remediation Design at Contaminated Aquifers. *Mathematical Problems in Engineering*, **2012**, 2012, 1-13	1.1	7

LIST OF PUBLICATIONS

10	Robust interval linear programming for environmental decision making under uncertainty. *Engineering Optimization*, **2012**, 44, 1321-1336	2	26
9	A generalized fuzzy linear programming approach for environmental management problem under uncertainty. *Journal of the Air and Waste Management Association*, **2012**, 62, 72-86	2.4	22
8	A Robust Two-Step Method for Solving Interval Linear Programming Problems within an Environmental Management Context. *Journal of Environmental Informatics*, **2012**, 19, 1-9	3	105
7	A multistage scenario-based inexact fuzzy-stochastic chance-constrained programming for water resources management under uncertainty **2010**,		1
6	Planning of municipal solid waste management systems under dual uncertainties: a hybrid interval stochastic programming approach. *Stochastic Environmental Research and Risk Assessment*, **2009**, 23, 707-720	3.5	31
5	A fuzzy linear programming approach for municipal solid-waste management under uncertainty. *Engineering Optimization*, **2009**, 41, 1081-1101	2	21
4	Modelling Dependence between Traffic Noise and Traffic Flow through An Entropy-Copula Method. *Journal of Environmental Informatics*,	3	8
3	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*,	3	6
2	Parameter Uncertainty and Sensitivity Evaluation of Copula-Based Multivariate Hydroclimatic Risk Assessment. *Journal of Environmental Informatics*,	3	3
1	Collided with COVID-19 pandemic, the 2020 Yangtze flood is exceptionally severe.		1