Fan Zhang

List of Publications by Year
in descending order

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		270111	388640
66	1,666	25	36
papers	citations	h-index	g-index

66	66	66	954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agricultural water and land resources allocation considering carbon sink/source and water scarcity/degradation footprint. Science of the Total Environment, 2022, 819, 152058.	3.9	35
2	An integrated model to optimize irrigation amount and time in shallow groundwater area under drought conditions. Journal of Contaminant Hydrology, 2022, 246, 103956.	1.6	6
3	Towards sustainable circular agriculture: An integrated optimization framework for crop-livestock-biogas-crop recycling system management under uncertainty. Agricultural Systems, 2022, 196, 103347.	3.2	23
4	A distributed robust optimization model based on water-food-energy nexus for irrigated agricultural sustainable development. Journal of Hydrology, 2022, 606, 127394.	2.3	17
5	An interval multi-objective fuzzy-interval credibility-constrained nonlinear programming model for balancing agricultural and ecological water management. Journal of Contaminant Hydrology, 2022, 245, 103958.	1.6	11
6	A modeling framework for the dynamic correlation between agricultural sustainability and the water-land nexus under uncertainty. Journal of Cleaner Production, 2022, 349, 131270.	4.6	4
7	Carbon Sink Cost and Influence Factors Analysis in a National Afforestation Project under Different Investment Modes. International Journal of Environmental Research and Public Health, 2022, 19, 7738.	1.2	4
8	The interval copula-measure Me based multi-objective multi-stage stochastic chance-constrained programming for seasonal water resources allocation under uncertainty. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1463.	1.9	6
9	Optimal irrigation water allocation in Hetao Irrigation District considering decision makersâ€™ preference under uncertainties. Agricultural Water Management, 2021, 246, 106670.	2.4	35
10	Fuzzy multi-objective modelling for managing water-food-energy-climate change-land nexus towards sustainability. Journal of Hydrology, 2021, 596, 125704.	2.3	32
11	Vine copula and cloud model-based programming approach for agricultural water allocation under uncertainty. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1895-1915.	1.9	14
12	Drought disaster risk management based on optimal allocation of water resources. Natural Hazards, 2021, 108, 285-308.	1.6	11
13	Managing Agricultural Water Considering Water Allocation Priority Based on Remote Sensing Data. Remote Sensing, 2021, 13, 1536.	1.8	10
14	Managing agricultural water-energy-food-environment nexus considering water footprint and carbon footprint under uncertainty. Agricultural Water Management, 2021, 252, 106899.	2.4	48
15	Optimal management of cultivated land coupling remote sensing-based expected irrigation water forecasting. Journal of Cleaner Production, 2021, 308, 127370.	4.6	9
16	An optimal modeling approach for reducing carbon footprint in agricultural water-energy-food nexus system. Journal of Cleaner Production, 2021, 316, 128325.	4.6	27
17	Sustainable regional water allocation under water-energy nexus: A chance-constrained possibilistic mean-variance multi-objective programming. Journal of Cleaner Production, 2021, 313, 127934.	4.6	16
18	Achieving sustainable development goals in agricultural energy-water-food nexus system: An integrated inexact multi-objective optimization approach. Resources, Conservation and Recycling, 2021, 174, 105833.	5.3	36

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19	Optimization towards sustainable development in shallow groundwater area and risk analysis. Agricultural Water Management, 2021, 258, 107225.	2.4	7
20	A risk-based fuzzy boundary interval two-stage stochastic water resources management programming approach under uncertainty. Journal of Hydrology, 2020, 582, 124553.	2.3	34
21	A full fuzzy-interval credibility-constrained nonlinear programming approach for irrigation water allocation under uncertainty. Agricultural Water Management, 2020, 230, 105961.	2.4	30
22	Towards sustainable water management in an arid agricultural region: A multi-level multi-objective stochastic approach. Agricultural Systems, 2020, 182, 102848.	3.2	35
23	Grid-scale agricultural land and water management: A remote-sensing-based multiobjective approach. Journal of Cleaner Production, 2020, 265, 121792.	4.6	17
24	A bi-level multi-objective linear fractional programming for water consumption structure optimization based on water shortage risk. Journal of Cleaner Production, 2019, 237, 117829.	4.6	33
25	Planning seasonal irrigation water allocation based on an interval multiobjective multi-stage stochastic programming approach. Agricultural Water Management, 2019, 223, 105692.	2.4	22
26	Drought risk evaluation model with interval number ranking and its application. Science of the Total Environment, 2019, 685, 1042-1057.	3.9	22
27	A bi-level multiobjective stochastic approach for supporting environment-friendly agricultural planting strategy formulation. Science of the Total Environment, 2019, 693, 133593.	3.9	23
28	A Multi-Objective Hierarchical Model for Irrigation Scheduling in the Complex Canal System. Sustainability, 2019, 11, 24.	1.6	24
29	An improved intuitionistic fuzzy interval two-stage stochastic programming for resources planning management integrating recourse penalty from resources scarcity and surplus. Journal of Cleaner Production, 2019, 234, 185-199.	4.6	18
30	Agricultural production planning approach based on interval fuzzy credibility-constrained bi-level programming and Nerlove supply response theory. Journal of Cleaner Production, 2019, 233, 1158-1169.	4.6	31
31	An Optimization-Evaluation Agricultural Water Planning Approach Based on Interval Linear Fractional Bi-Level Programming and IAHP-TOPSIS. Water (Switzerland), 2019, 11, 1094.	1.2	11
32	A Nonlinear Inexact Two-Stage Management Model for Agricultural Water Allocation under Uncertainty Based on the Heihe River Water Diversion Plan. International Journal of Environmental Research and Public Health, 2019, 16, 1884.	1.2	8
33	Optimization of water and fertilizer coupling system based on rice grain quality. Agricultural Water Management, 2019, 221, 34-46.	2.4	43
34	A distributed interval nonlinear multiobjective programming approach for optimal irrigation water management in an arid area. Agricultural Water Management, 2019, 220, 13-26.	2.4	25
35	A multi-risk assessment framework for agricultural land use optimization. Stochastic Environmental Research and Risk Assessment, 2019, 33, 563-579.	1.9	10
36	An inexact irrigation water allocation optimization model under future climate change. Stochastic Environmental Research and Risk Assessment, 2019, 33, 271-285.	1.9	18

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37	Towards sustainable water resources planning and pollution control: Inexact joint-probabilistic double-sided stochastic chance-constrained programming model. Science of the Total Environment, 2019, 657, 73-86.	3.9	21
38	An interval multiobjective approach considering irrigation canal system conditions for managing irrigation water. Journal of Cleaner Production, 2019, 211, 293-302.	4.6	40
39	Integrated IMO-TSP and AHP Method for Regional Water Allocation under Uncertainty. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	19
40	Regional Water Use Structure Optimization Under Multiple Uncertainties Based on Water Resources Vulnerability Analysis. Water Resources Management, 2018, 32, 1827-1847.	1.9	22
41	FLFP: A fuzzy linear fractional programming approach with double-sided fuzziness for optimal irrigation water allocation. Agricultural Water Management, 2018, 199, 105-119.	2.4	29
42	An inexact CVaR two-stage mixed-integer linear programming approach for agricultural water management under uncertainty considering ecological water requirement. Ecological Indicators, 2018, 92, 342-353.	2.6	31
43	Inexact nonlinear improved fuzzy chance-constrained programming model for irrigation water management under uncertainty. Journal of Hydrology, 2018, 556, 397-408.	2.3	32
44	Optimization-Based Agricultural Water-Saving Potential Analysis in Minqin County, Gansu Province China. Water (Switzerland), 2018, 10, 1125.	1.2	13
45	An Integrated Water-Saving and Quality-Guarantee Uncertain Programming Approach for the Optimal Irrigation Scheduling of Seed Maize in Arid Regions. Water (Switzerland), 2018, 10, 908.	1.2	12
46	An inexact robust two-stage mixed-integer linear programming approach for crop area planning under uncertainty. Journal of Cleaner Production, 2018, 204, 489-500.	4.6	26
47	A hybrid land-water-environment model for identification of ecological effect and risk under uncertain meteorological precipitation in an agroforestry ecosystem. Science of the Total Environment, 2018, 633, 1613-1628.	3.9	21
48	Double-sided stochastic chance-constrained linear fractional programming model for managing irrigation water under uncertainty. Journal of Hydrology, 2018, 564, 467-475.	2.3	21
49	An interval nonlinear multiobjective programming model with fuzzy-interval credibility constraint for crop monthly water allocation. Agricultural Water Management, 2018, 209, 123-133.	2.4	39
50	An Interval-based Fuzzy Chance-constrained Irrigation Water Allocation model with double-sided fuzziness. Agricultural Water Management, 2018, 210, 22-31.	2.4	15
51	Integrated uncertain models for runoff forecasting and crop planting structure optimization of the Shiyang River Basin, north-west China. Frontiers of Agricultural Science and Engineering, 2018, .	0.9	4
52	A multi-objective fuzzy programming model for optimal use of irrigation water and land resources under uncertainty in Gansu Province, China. Journal of Cleaner Production, 2017, 164, 85-94.	4.6	57
53	An interval multistage joint-probabilistic chance-constrained programming model with left-hand-side randomness for crop area planning under uncertainty. Journal of Cleaner Production, 2017, 167, 1276-1289.	4.6	38
54	A generalized fuzzy credibility-constrained linear fractional programming approach for optimal irrigation water allocation under uncertainty. Journal of Hydrology, 2017, 553, 735-749.	2.3	54

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55	A Regional Water Optimal Allocation Model Based on the Cobb-Douglas Production Function under Multiple Uncertainties. Water (Switzerland), 2017, 9, 923.	1.2	19
56	Irrigation Water Allocation Using an Inexact Twoâ€Stage Quadratic Programming with Fuzzy Input under Climate Change. Journal of the American Water Resources Association, 2016, 52, 667-684.	1.0	24
57	An innovative method for water resources carrying capacity research â€“ Metabolic theory of regional water resources. Journal of Environmental Management, 2016, 167, 139-146.	3.8	108
58	An uncertainty-based framework for agricultural water-land resources allocation and risk evaluation. Agricultural Water Management, 2016, 177, 10-23.	2.4	51
59	An efficient irrigation water allocation model under uncertainty. Agricultural Systems, 2016, 144, 46-57.	3.2	54
60	An Improved Solving Approach for Interval-Parameter Programming and Application to an Optimal Allocation of Irrigation Water Problem. Water Resources Management, 2016, 30, 701-729.	1.9	12
61	Risk Assessment for Ecological Planning of Arid Inland River Basins Under Hydrological and Management Uncertainties. Water Resources Management, 2016, 30, 1415-1431.	1.9	13
62	Optimization of the irrigation water resources for Shijin irrigation district in north China. Agricultural Water Management, 2015, 158, 82-98.	2.4	38
63	A decision-support system for cropland irrigation water management and agricultural non-point sources pollution control. Desalination and Water Treatment, 2014, 52, 5106-5117.	1.0	7
64	Fuzzy chance-constrained linear fractional programming approach for optimal water allocation. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1601-1612.	1.9	50
65	Simulation and optimization for crop water allocation based on crop water production functions and climate factor under uncertainty. Applied Mathematical Modelling, 2013, 37, 7708-7716.	2.2	40
66	A two-stage joint chance-constrained programming considering compound uncertainty of interval, random and fuzzy: a case study for agricultural water planning in an arid area. Stochastic Environmental Research and Risk Assessment, 0, , 1.	1.9	1