

J R Kasprzyk

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.

42
papers

2,183
citations

19
h-index

46
g-index

47
ext. papers

2,603
ext. citations

4.6
avg, IF

5.2
L-index

#	Paper	IF	Citations
42	Linking Reclaimed Water Consumption with Quantitative Downstream Flow Impacts. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021021	2.8	0
41	Screening Tool for Dam Hazard Potential Classification Using Machine Learning and Multiobjective Parameter Tuning. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021064	2.8	1
40	The Next Frontier: Making Research More Reproducible. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 01820002	2.8	11
39	Nearest neighbor time series bootstrap for generating influent water quality scenarios. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 23-31	3.5	5
38	Multi-objective optimization of water treatment operations for disinfection byproduct control. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 702-714	4.2	1
37	Statistical variation in the embodied carbon of concrete mixtures. <i>Journal of Cleaner Production</i> , 2020 , 275, 123088	10.3	5
36	A comparison of machine learning methods for predicting the compressive strength of field-placed concrete. <i>Construction and Building Materials</i> , 2019 , 228, 116661	6.7	37
35	Parasol: an open source, interactive parallel coordinates library for multi-objective decision making. <i>Environmental Modelling and Software</i> , 2019 , 116, 153-163	5.2	12
34	Testing the potential of Multiobjective Evolutionary Algorithms (MOEAs) with Colorado water managers. <i>Environmental Modelling and Software</i> , 2019 , 117, 149-163	5.2	9
33	Using multivariate regression trees and multiobjective tradeoff sets to reveal fundamental insights about water resources systems. <i>Environmental Modelling and Software</i> , 2019 , 120, 104498	5.2	3
32	Introductory overview: Optimization using evolutionary algorithms and other metaheuristics. <i>Environmental Modelling and Software</i> , 2019 , 114, 195-213	5.2	83
31	Computational design optimization of concrete mixtures: A review. <i>Cement and Concrete Research</i> , 2018 , 109, 42-53	10.3	92
30	Experimenting with Water Supply Planning Objectives Using the Eldorado Utility Planning Model Multireservoir Testbed. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018046	2.8	7
29	Defining the Role of Water Resources Systems Analysis in a Changing Future. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 01818003	2.8	9
28	Exploring Cooperative Transboundary River Management Strategies for the Eastern Nile Basin. <i>Water Resources Research</i> , 2018 , 54, 9224-9254	5.4	33
27	Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: successes and challenges. <i>Environmental Modelling and Software</i> , 2018 , 109, 368-379	5.2	15
26	Diagnostic Assessment of Preference Constraints for Simulation Optimization in Water Resources. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018036	2.8	6

25	Exploring snow model parameter sensitivity using Sobol' variance decomposition. <i>Environmental Modelling and Software</i> , 2017 , 89, 144-158	5.2	12
24	Incorporating deeply uncertain factors into the many objective search process. <i>Environmental Modelling and Software</i> , 2017 , 89, 159-171	5.2	43
23	The Use of Ensemble Modeling of Suspended Sediment to Characterize Uncertainty 2017 ,		1
22	Hydrological model application under data scarcity for multiple watersheds, Java Island, Indonesia. <i>Journal of Hydrology: Regional Studies</i> , 2017 , 9, 127-139	3.6	14
21	More Integrated Formal Education and Practice in Water Resources Systems Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017 , 143, 02517001	2.8	5
20	Engineered Injection and Extraction for Remediation of Uranium-Contaminated Groundwater 2017 ,		1
19	Participatory Framework for Assessment and Improvement of Tools (ParFAIT): Increasing the impact and relevance of water management decision support research. <i>Environmental Modelling and Software</i> , 2017 , 95, 432-446	5.2	16
18	Emerging investigators series: a critical review of decision support systems for water treatment: making the case for incorporating climate change and climate extremes. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 18-36	4.2	18
17	A Multialgorithm Approach to Land Surface Modeling of Suspended Sediment in the Colorado Front Range. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2526-2544	7.1	3
16	Many-Objective Analysis to Optimize Pumping and Releases in Multi-reservoir Water Supply Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04015049	2.8	12
15	Battling Arrow's Paradox to Discover Robust Water Management Alternatives. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04015053	2.8	29
14	Screening robust water infrastructure investments and their trade-offs under global change: A London example. <i>Global Environmental Change</i> , 2016 , 41, 216-227	10.1	33
13	Optimal design of active spreading systems to remediate sorbing groundwater contaminants in situ. <i>Journal of Contaminant Hydrology</i> , 2016 , 190, 29-43	3.9	11
12	Many-objective optimization and visual analytics reveal key trade-offs for London's water supply. <i>Journal of Hydrology</i> , 2015 , 531, 1040-1053	6	82
11	An iterative approach to multi-objective engineering design: Optimization of engineered injection and extraction for enhanced groundwater remediation. <i>Environmental Modelling and Software</i> , 2015 , 69, 253-261	5.2	33
10	Navigating financial and supply reliability tradeoffs in regional drought management portfolios. <i>Water Resources Research</i> , 2014 , 50, 4906-4923	5.4	66
9	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. <i>Environmental Modelling and Software</i> , 2014 , 62, 271-299	5.2	391
8	Optimal Design of Water Distribution Systems Using Many-Objective Visual Analytics. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013 , 139, 624-633	2.8	108

7	Many objective robust decision making for complex environmental systems undergoing change. <i>Environmental Modelling and Software</i> , 2013 , 42, 55-71	5.2	270
6	Evolutionary multiobjective optimization in water resources: The past, present, and future. <i>Advances in Water Resources</i> , 2013 , 51, 438-456	4.7	324
5	Many-objective de Novo water supply portfolio planning under deep uncertainty. <i>Environmental Modelling and Software</i> , 2012 , 34, 87-104	5.2	106
4	Estimating the Impacts of Climate Change and Population Growth on Flood Discharges in the United States. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 442-452	2.8	13
3	Water Resources Management: The Myth, the Wicked, and the Future. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009 , 135, 411-413	2.8	47
2	Managing population and drought risks using many-objective water portfolio planning under uncertainty. <i>Water Resources Research</i> , 2009 , 45,	5.4	114
1	A new epsilon-dominance hierarchical Bayesian optimization algorithm for large multiobjective monitoring network design problems. <i>Advances in Water Resources</i> , 2008 , 31, 828-845	4.7	76