

# Jonathan D Herman

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

3,438  
citations

218677

26  
h-index

223800

46  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bias Correction of Hydrologic Projections Strongly Impacts Inferred Climate Vulnerabilities in Institutionally Complex Water Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	2.6	8
2	Coupled effects of observation and parameter uncertainty on urban groundwater infrastructure decisions. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1319-1340.	4.9	1
3	Identifying climate change impacts on surface water supply in the southern Central Valley, California. <i>Science of the Total Environment</i> , 2021, 759, 143429.	8.0	25
4	Dynamics of resilienceâ€“equity interactions in resource-based communities. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	2
5	Toward Dataâ€“Driven Generation and Evaluation of Model Structure for Integrated Representations of Human Behavior in Water Resources Systems. <i>Water Resources Research</i> , 2021, 57, e2020WR028148.	4.2	8
6	How do the properties of training scenarios influence the robustness of reservoir operating policies to climate uncertainty?. <i>Environmental Modelling and Software</i> , 2021, 141, 105047.	4.5	5
7	California's food-energy-water system: An open source simulation model of adaptive surface and groundwater management in the Central Valley. <i>Environmental Modelling and Software</i> , 2021, 141, 105052.	4.5	17
8	Dynamic Adaptation of Water Resources Systems Under Uncertainty by Learning Policy Structure and Indicators. <i>Water Resources Research</i> , 2021, 57, e2021WR030433.	4.2	15
9	Low cost satellite constellations for nearly continuous global coverage. <i>Nature Communications</i> , 2020, 11, 200.	12.8	29
10	Climate Adaptation as a Control Problem: Review and Perspectives on Dynamic Water Resources Planning Under Uncertainty. <i>Water Resources Research</i> , 2020, 56, e24389.	4.2	110
11	Adaptation of Multiobjective Reservoir Operations to Snowpack Decline in the Western United States. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	16
12	Bootstrap Aggregation and Crossâ€“Validation Methods to Reduce Overfitting in Reservoir Control Policy Search. <i>Water Resources Research</i> , 2020, 56, e2020WR027184.	4.2	26
13	Drought and the Sacramentoâ€“San Joaquin Delta, 2012â€“2016: Environmental Review and Lessons. <i>San Francisco Estuary and Watershed Science</i> , 2020, 18, .	0.4	5
14	Detecting early warning signals of long-term water supply vulnerability using machine learning. <i>Environmental Modelling and Software</i> , 2020, 131, 104781.	4.5	15
15	Urban growth and groundwater sustainability: Evaluating spatially distributed recharge alternatives in the Mexico City Metropolitan Area. <i>Journal of Hydrology</i> , 2020, 586, 124909.	5.4	19
16	Tailoring WRF and Noahâ€“MP to Improve Process Representation of Sierra Nevada Runoff: Diagnostic Evaluation and Applications. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001832.	3.8	9
17	Water shortage risks from perennial crop expansion in Californiaâ€™s Central Valley. <i>Environmental Research Letters</i> , 2019, 14, 104014.	5.2	35
18	A framework for testing dynamic classification of vulnerable scenarios in ensemble water supply projections. <i>Climatic Change</i> , 2019, 152, 431-448.	3.6	10

#	ARTICLE	IF	CITATIONS
19	POLARIS Soil Properties: 30-yr Probabilistic Maps of Soil Properties Over the Contiguous United States. <i>Water Resources Research</i> , 2019, 55, 2916-2938.	4.2	77
20	Spatially distributed sensitivity of simulated global groundwater heads and flows to hydraulic conductivity, groundwater recharge, and surface water body parameterization. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4561-4582.	4.9	29
21	Scalable Multiobjective Control for Large-Scale Water Resources Systems Under Uncertainty. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1492-1499.	5.2	56
22	Policy tree optimization for threshold-based water resources management over multiple timescales. <i>Environmental Modelling and Software</i> , 2018, 99, 39-51.	4.5	47
23	Balancing Flood Risk and Water Supply in California: Policy Search Integrating Short-Term Forecast Ensembles With Conjunctive Use. <i>Water Resources Research</i> , 2018, 54, 7557-7576.	4.2	47
24	Modeling the behavior of water reservoir operators via eigenbehavior analysis. <i>Advances in Water Resources</i> , 2018, 122, 228-237.	3.8	16
25	Adaptive water infrastructure planning for nonstationary hydrology. <i>Advances in Water Resources</i> , 2018, 118, 83-94.	3.8	53
26	Diagnostic Assessment of Preference Constraints for Simulation Optimization in Water Resources. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	7
27	An open-source Python implementation of California's hydroeconomic optimization model. <i>Environmental Modelling and Software</i> , 2018, 108, 8-13.	4.5	24
28	Reducing regional drought vulnerabilities and multi-city robustness conflicts using many-objective optimization under deep uncertainty. <i>Advances in Water Resources</i> , 2017, 104, 195-209.	3.8	63
29	Environmental hedging: A theory and method for reconciling reservoir operations for downstream ecology and water supply. <i>Water Resources Research</i> , 2017, 53, 7816-7831.	4.2	33
30	SALib: An open-source Python library for Sensitivity Analysis. <i>Journal of Open Source Software</i> , 2017, 2, 97.	4.6	704
31	A diagnostic assessment of evolutionary algorithms for multi-objective surface water reservoir control. <i>Advances in Water Resources</i> , 2016, 92, 172-185.	3.8	105
32	Cooperative drought adaptation: Integrating infrastructure development, conservation, and water transfers into adaptive policy pathways. <i>Water Resources Research</i> , 2016, 52, 7327-7346.	4.2	84
33	Synthetic Drought Scenario Generation to Support Bottom-Up Water Supply Vulnerability Assessments. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	70
34	Deriving global parameter estimates for the Noah land surface model using FLUXNET and machine learning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,218.	3.3	34
35	An open source framework for many-objective robust decision making. <i>Environmental Modelling and Software</i> , 2015, 74, 114-129.	4.5	114
36	Flood and drought hydrologic monitoring: the role of model parameter uncertainty. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3239-3251.	4.9	46

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37	Internationally coordinated multi-mission planning is now critical to sustain the space-based rainfall observations needed for managing floods globally. <i>Environmental Research Letters</i> , 2015, 10, 024010.	5.2	17
38	How Should Robustness Be Defined for Water Systems Planning under Change?. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	253
39	Many-objective reservoir policy identification and refinement to reduce policy inertia and myopia in water management. <i>Water Resources Research</i> , 2014, 50, 3355-3377.	4.2	130
40	Beyond optimality: Multistakeholder robustness tradeoffs for regional water portfolio planning under deep uncertainty. <i>Water Resources Research</i> , 2014, 50, 7692-7713.	4.2	170
41	Navigating financial and supply reliability tradeoffs in regional drought management portfolios. <i>Water Resources Research</i> , 2014, 50, 4906-4923.	4.2	87
42	Evolutionary multiobjective optimization in water resources: The past, present, and future. <i>Advances in Water Resources</i> , 2013, 51, 438-456.	3.8	406
43	Time-varying sensitivity analysis clarifies the effects of watershed model formulation on model behavior. <i>Water Resources Research</i> , 2013, 49, 1400-1414.	4.2	115
44	From maps to movies: high-resolution time-varying sensitivity analysis for spatially distributed watershed models. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5109-5125.	4.9	50
45	Technical Note: Method of Morris effectively reduces the computational demands of global sensitivity analysis for distributed watershed models. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2893-2903.	4.9	142
46	A critical evaluation of unconventional gas recovery from the marcellus shale, northeastern United States. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 679-687.	1.9	93