

Gregory Characklis

List of Publications by Year in descending order

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54
papers

2,133
citations

331670

21
h-index

233421

45
g-index

63
all docs

63
docs citations

63
times ranked

1924
citing authors

#	ARTICLE	IF	CITATIONS
1	How Should Robustness Be Defined for Water Systems Planning under Change?. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	253
2	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. Water Resources Research, 2015, 51, 6110-6124.	4.2	214
3	Microbial partitioning to settleable particles in stormwater. Water Research, 2005, 39, 1773-1782.	11.3	182
4	Beyond optimality: Multistakeholder robustness tradeoffs for regional water portfolio planning under deep uncertainty. Water Resources Research, 2014, 50, 7692-7713.	4.2	170
5	Managing population and drought risks using manyâ€objective water portfolio planning under uncertainty. Water Resources Research, 2009, 45, .	4.2	133
6	Many-objective de Novo water supply portfolio planning under deep uncertainty. Environmental Modelling and Software, 2012, 34, 87-104.	4.5	120
7	Navigating financial and supply reliability tradeoffs in regional drought management portfolios. Water Resources Research, 2014, 50, 4906-4923.	4.2	87
8	Cooperative drought adaptation: Integrating infrastructure development, conservation, and water transfers into adaptive policy pathways. Water Resources Research, 2016, 52, 7327-7346.	4.2	84
9	Developing portfolios of water supply transfers. Water Resources Research, 2006, 42, .	4.2	70
10	Synthetic Drought Scenario Generation to Support Bottom-Up Water Supply Vulnerability Assessments. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	70
11	Evaluating the Impact of Alternative Hydro-Climate Scenarios on Transfer Agreements: Practical Improvement for Generating Synthetic Streamflows. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 396-406.	2.6	50
12	Managing water utility financial risks through thirdâ€party index insurance contracts. Water Resources Research, 2013, 49, 4939-4951.	4.2	50
13	Influence of Deregulated Electricity Markets on Hydropower Generation and Downstream Flow Regime. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 342-355.	2.6	39
14	Identifying Actionable Compromises: Navigating Multiâ€City Robustness Conflicts to Discover Cooperativeâ€Safe Operating Spaces for Regionalâ€Waterâ€Supply Portfolios. Water Resources Research, 2019, 55, 9024-9050.	4.2	39
15	Economic Engineering of Environmental and Water Resource Systems. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 399-402.	2.6	38
16	Mitigating hydrologic financial risk in hydropower generation using index-based financial instruments. Water Resources and Economics, 2015, 10, 45-67.	2.2	35
17	Reducing the costs of meeting regional water demand through risk-based transfer agreements. Journal of Environmental Management, 2009, 90, 1703-1714.	7.8	34
18	Considering Bacteria-Sediment Associations in Microbial Fate and Transport Modeling. Journal of Environmental Engineering, ASCE, 2011, 137, 697-706.	1.4	30

#	ARTICLE	IF	CITATIONS
19	More efficient optimization of long-term water supply portfolios. <i>Water Resources Research</i> , 2009, 45, .	4.2	29
20	An open source model for quantifying risks in bulk electric power systems from spatially and temporally correlated hydrometeorological processes. <i>Environmental Modelling and Software</i> , 2020, 126, 104667.	4.5	29
21	The impact of wind power growth and hydrological uncertainty on financial losses from oversupply events in hydropower-dominated systems. <i>Applied Energy</i> , 2017, 194, 172-183.	10.1	25
22	Can modern multi-objective evolutionary algorithms discover high-dimensional financial risk portfolio tradeoffs for snow-dominated water-energy systems?. <i>Advances in Water Resources</i> , 2020, 145, 103718.	3.8	22
23	Cost-effective water quality assessment through the integration of monitoring data and modeling results. <i>Water Resources Research</i> , 2007, 43, .	4.2	21
24	Natural gas price uncertainty and the cost-effectiveness of hedging against low hydropower revenues caused by drought. <i>Water Resources Research</i> , 2015, 51, 2412-2427.	4.2	21
25	Compound hydrometeorological extremes across multiple timescales drive volatility in California electricity market prices and emissions. <i>Applied Energy</i> , 2020, 276, 115541.	10.1	21
26	Evaluating the Financial Vulnerability of a Major Electric Utility in the Southeastern U.S. to Drought under Climate Change and an Evolving Generation Mix. <i>Environmental Science & Technology</i> , 2017, 51, 8815-8823.	10.0	20
27	Accounting for Adaptive Water Supply Management When Quantifying Climate and Land Cover Change Vulnerability. <i>Water Resources Research</i> , 2020, 56, e2019WR025614.	4.2	20
28	Impact of Contract Structure and Risk Aversion on Interutility Water Transfer Agreements. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 100-111.	2.6	17
29	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
30	Evaluating the relative impacts of operational and financial factors on the competitiveness of an algal biofuel production facility. <i>Bioresource Technology</i> , 2016, 220, 271-281.	9.6	16
31	Hedging the financial risk from water scarcity for Great Lakes shipping. <i>Water Resources Research</i> , 2016, 52, 227-245.	4.2	16
32	Fostering cooperation in power asymmetrical water systems by the use of direct release rules and index-based insurance schemes. <i>Advances in Water Resources</i> , 2018, 115, 301-314.	3.8	16
33	Evaluating financial risk management strategies under climate change for hydropower producers on the Great Lakes. <i>Water Resources Research</i> , 2017, 53, 2114-2132.	4.2	15
34	Exploring Treatment and Capacity-Sharing Agreements Between Water Utilities. <i>Journal - American Water Works Association</i> , 2019, 111, 26-40.	0.3	12
35	Integrating Raw Water Transfers into an Eastern United States Management Context. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 05018012.	2.6	11
36	Effects of Geographic Diversification on Risk Pooling to Mitigate Drought-Related Financial Losses for Water Utilities. <i>Water Resources Research</i> , 2018, 54, 2561-2579.	4.2	10

#	ARTICLE	IF	CITATIONS
37	Managing Financial Risk Tradeoffs for Hydropower Generation Using Snowpack-Based Index Contracts. <i>Water Resources Research</i> , 2020, 56, e2020WR027212.	4.2	10
38	The Effects of Climate Change on Interregional Electricity Market Dynamics on the U.S. West Coast. <i>Earth's Future</i> , 2021, 9, .	6.3	10
39	Particle suspensions and their regions of effect in the Neuse River Estuary: Implications for water quality monitoring. <i>Estuaries and Coasts</i> , 2007, 30, 359-364.	2.2	9
40	How Do Price Surcharges Impact Water Utility Financial Incentives to Pursue Alternative Supplies during Drought?. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	7
41	Power and Pathways: Exploring Robustness, Cooperative Stability, and Power Relationships in Regional Infrastructure Investment and Water Supply Management Portfolio Pathways. <i>Earth's Future</i> , 2022, 10, .	6.3	7
42	Impact of Inter-Utility Agreements on Cooperative Regional Water Infrastructure Investment and Management Pathways. <i>Water Resources Research</i> , 2022, 58, .	4.2	7
43	Insurance Portfolio Diversification Through Bundling for Competing Agents Exposed to Uncorrelated Drought and Flood Risks. <i>Water Resources Research</i> , 2020, 56, e2019WR026443.	4.2	6
44	From Stream Flows to Cash Flows: Leveraging Evolutionary Multi-Objective Direct Policy Search to Manage Hydrologic Financial Risks. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
45	Resilient California Water Portfolios Require Infrastructure Investment Partnerships That Are Viable for All Partners. <i>Earth's Future</i> , 2022, 10, .	6.3	6
46	Low natural gas prices and the financial cost of ramp rate restrictions at hydroelectric dams. <i>Energy Economics</i> , 2017, 61, 340-350.	12.1	5
47	Mitigating Drought-Related Financial Risks for Water Utilities via Integration of Risk Pooling and Reinsurance. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	5
48	Potential Implications of Groundwater Trading and Reformed Water Rights in Diamond Valley, Nevada. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, 05019009.	2.6	4
49	Integrating Physical and Financial Approaches to Manage Environmental Financial Risk on the Great Lakes. <i>Water Resources Research</i> , 2020, 56, e2019WR024853.	4.2	4
50	Understanding Water Utility Attitudes toward Water Transfers and Risk: Pretest Results. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	2
51	Retail Load Defection Impacts on a Major Electric Utility's Exposure to Weather Risk. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	2.6	2
52	An Evolving Paradigm for Publication in the Water Resources Management Field. <i>Journal of Contemporary Water Research and Education</i> , 2008, 139, 37-39.	0.7	1
53	Considering Location, Compliance, and Storage in Decisions on Brackish Water Resource Development. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006, 132, 513-519.	2.6	0
54	Assessing the Bonneville Power Administration's Financial Vulnerability to Hydrologic Variability. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	2.6	0