

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
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63
all docs

63
docs citations

63
times ranked

1924
citing authors

#	ARTICLE	IF	CITATIONS
1	Retail Load Defection Impacts on a Major Electric Utility's Exposure to Weather Risk. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	2
2	From Stream Flows to Cash Flows: Leveraging Evolutionary Multi-Objective Direct Policy Search to Manage Hydrologic Financial Risks. Water Resources Research, 2022, 58, .	4.2	6
3	Power and Pathways: Exploring Robustness, Cooperative Stability, and Power Relationships in Regional Infrastructure Investment and Water Supply Management Portfolio Pathways. Earth's Future, 2022, 10, .	6.3	7
4	Impact of Inter-Utility Agreements on Cooperative Regional Water Infrastructure Investment and Management Pathways. Water Resources Research, 2022, 58, .	4.2	7
5	Resilient California Water Portfolios Require Infrastructure Investment Partnerships That Are Viable for All Partners. Earth's Future, 2022, 10, .	6.3	6
6	Assessing the Bonneville Power Administration's Financial Vulnerability to Hydrologic Variability. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	0
7	California's food-energy-water system: An open source simulation model of adaptive surface and groundwater management in the Central Valley. Environmental Modelling and Software, 2021, 141, 105052.	4.5	17
8	The Effects of Climate Change on Interregional Electricity Market Dynamics on the U.S. West Coast. Earth's Future, 2021, 9, .	6.3	10
9	Accounting for Adaptive Water Supply Management When Quantifying Climate and Land Cover Change Vulnerability. Water Resources Research, 2020, 56, e2019WR025614.	4.2	20
10	Can modern multi-objective evolutionary algorithms discover high-dimensional financial risk portfolio tradeoffs for snow-dominated water-energy systems?. Advances in Water Resources, 2020, 145, 103718.	3.8	22
11	Compound hydrometeorological extremes across multiple timescales drive volatility in California electricity market prices and emissions. Applied Energy, 2020, 276, 115541.	10.1	21
12	Managing Financial Risk Tradeoffs for Hydropower Generation Using Snowpack-Based Index Contracts. Water Resources Research, 2020, 56, e2020WR027212.	4.2	10
13	Integrating Physical and Financial Approaches to Manage Environmental Financial Risk on the Great Lakes. Water Resources Research, 2020, 56, e2019WR024853.	4.2	4
14	An open source model for quantifying risks in bulk electric power systems from spatially and temporally correlated hydrometeorological processes. Environmental Modelling and Software, 2020, 126, 104667.	4.5	29
15	Mitigating Drought-Related Financial Risks for Water Utilities via Integration of Risk Pooling and Reinsurance. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	5
16	How Do Price Surcharges Impact Water Utility Financial Incentives to Pursue Alternative Supplies during Drought?. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	7
17	Insurance Portfolio Diversification Through Bundling for Competing Agents Exposed to Uncorrelated Drought and Flood Risks. Water Resources Research, 2020, 56, e2019WR026443.	4.2	6
18	Exploring Treatment and Capacity-Sharing Agreements Between Water Utilities. Journal - American Water Works Association, 2019, 111, 26-40.	0.3	12

#	ARTICLE	IF	CITATIONS
19	Identifying Actionable Compromises: Navigating Multi-City Robustness Conflicts to Discover Cooperative-Safe Operating Spaces for Regional Water-Supply Portfolios. <i>Water Resources Research</i> , 2019, 55, 9024-9050.	4.2	39
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
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	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
32	Hedging the financial risk from water scarcity for Great Lakes shipping. <i>Water Resources Research</i> , 2016, 52, 227-245.	4.2	16
33	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. <i>Water Resources Research</i> , 2015, 51, 6110-6124.	4.2	214
34	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
35	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
36	Mitigating hydrologic financial risk in hydropower generation using index-based financial instruments. <i>Water Resources and Economics</i> , 2015, 10, 45-67.	2.2	35

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37	Impact of Contract Structure and Risk Aversion on Interutility Water Transfer Agreements. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 100-111.	2.6	17
38	Beyond optimality: Multistakeholder robustness tradeoffs for regional water portfolio planning under deep uncertainty. Water Resources Research, 2014, 50, 7692-7713.	4.2	170
39	Navigating financial and supply reliability tradeoffs in regional drought management portfolios. Water Resources Research, 2014, 50, 4906-4923.	4.2	87
40	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
41	Managing water utility financial risks through third-party index insurance contracts. Water Resources Research, 2013, 49, 4939-4951.	4.2	50
42	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
43	Many-objective de Novo water supply portfolio planning under deep uncertainty. Environmental Modelling and Software, 2012, 34, 87-104.	4.5	120
44	Considering Bacteria-Sediment Associations in Microbial Fate and Transport Modeling. Journal of Environmental Engineering, ASCE, 2011, 137, 697-706.	1.4	30
45	Reducing the costs of meeting regional water demand through risk-based transfer agreements. Journal of Environmental Management, 2009, 90, 1703-1714.	7.8	34
46	Managing population and drought risks using many-objective water portfolio planning under uncertainty. Water Resources Research, 2009, 45, .	4.2	133
47	More efficient optimization of long-term water supply portfolios. Water Resources Research, 2009, 45, .	4.2	29
48	An Evolving Paradigm for Publication in the Water Resources Management Field. Journal of Contemporary Water Research and Education, 2008, 139, 37-39.	0.7	1
49	Cost-effective water quality assessment through the integration of monitoring data and modeling results. Water Resources Research, 2007, 43, .	4.2	21
50	Particle suspensions and their regions of effect in the Neuse River Estuary: Implications for water quality monitoring. Estuaries and Coasts, 2007, 30, 359-364.	2.2	9
51	Developing portfolios of water supply transfers. Water Resources Research, 2006, 42, .	4.2	70
52	Considering Location, Compliance, and Storage in Decisions on Brackish Water Resource Development. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 513-519.	2.6	0
53	Economic Engineering of Environmental and Water Resource Systems. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 399-402.	2.6	38
54	Microbial partitioning to settleable particles in stormwater. Water Research, 2005, 39, 1773-1782.	11.3	182