

# Patrick M Reed

## List of Publications by Year in descending order

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Version: 2024-02-01

149  
papers

9,540  
citations

31949

53  
h-index

39638

94  
g-index

168  
all docs

168  
docs citations

168  
times ranked

6074  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Borg: An Auto-Adaptive Many-Objective Evolutionary Computing Framework. <i>Evolutionary Computation</i> , 2013, 21, 231-259.  | 2.3 | 556       |
| 2  | State of the Art for Genetic Algorithms and Beyond in Water Resources Planning and Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 412-432.   | 1.3 | 490       |
| 3  | 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.                              | 1.9 | 477       |
| 4  | Evolutionary multiobjective optimization in water resources: The past, present, and future. <i>Advances in Water Resources</i> , 2013, 51, 438-456.   | 1.7 | 406       |
| 5  | Many objective robust decision making for complex environmental systems undergoing change. <i>Environmental Modelling and Software</i> , 2013, 42, 55-71.   | 1.9 | 356       |
| 6  | How Should Robustness Be Defined for Water Systems Planning under Change?. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .  | 1.3 | 253       |
| 7  | The future of water resources systems analysis: Toward a scientific framework for sustainable water management. <i>Water Resources Research</i> , 2015, 51, 6110-6124.  | 1.7 | 214       |
| 8  | Diagnostic Assessment of Search Controls and Failure Modes in Many-Objective Evolutionary Optimization. <i>Evolutionary Computation</i> , 2012, 20, 423-452.  | 2.3 | 185       |
| 9  | The food-€energy-€water nexus: Transforming science for society. <i>Water Resources Research</i> , 2017, 53, 3550-3556.   | 1.7 | 180       |
| 10 | Sensitivity-guided reduction of parametric dimensionality for multi-objective calibration of watershed models. <i>Advances in Water Resources</i> , 2009, 32, 1154-1169.  | 1.7 | 175       |
| 11 | Evaluating the economic impact of water scarcity in a changing world. <i>Nature Communications</i> , 2021, 12, 1915.  | 5.8 | 174       |
| 12 | Beyond optimality: Multistakeholder robustness tradeoffs for regional water portfolio planning under deep uncertainty. <i>Water Resources Research</i> , 2014, 50, 7692-7713.   | 1.7 | 170       |
| 13 | Curses, Tradeoffs, and Scalable Management: Advancing Evolutionary Multiobjective Direct Policy Search to Improve Water Reservoir Operations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, . | 1.3 | 168       |
| 14 | Striking the Balance: Long-Term Groundwater Monitoring Design for Conflicting Objectives. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2004, 130, 140-149.  | 1.3 | 163       |
| 15 | Characterization of watershed model behavior across a hydroclimatic gradient. <i>Water Resources Research</i> , 2008, 44, .   | 1.7 | 158       |
| 16 | Cost-effective long-term groundwater monitoring design using a genetic algorithm and global mass interpolation. <i>Water Resources Research</i> , 2000, 36, 3731-3741.  | 1.7 | 155       |
| 17 | Designing a competent simple genetic algorithm for search and optimization. <i>Water Resources Research</i> , 2000, 36, 3757-3761.  | 1.7 | 154       |
| 18 | A framework for Visually Interactive Decision-making and Design using Evolutionary Multi-objective Optimization (VIDEO). <i>Environmental Modelling and Software</i> , 2007, 22, 1691-1704.                                   | 1.9 | 147       |

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|----|---|-----|-----------|
| 19 | 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. | 1.9 | 142       |
| 20 | Reducing uncertainty in predictions in ungauged basins by combining hydrologic indices regionalization and multiobjective optimization. <i>Water Resources Research</i> , 2008, 44, .                             | 1.7 | 137       |
| 21 | Managing population and drought risks using many-objective water portfolio planning under uncertainty. <i>Water Resources Research</i> , 2009, 45, .  | 1.7 | 133       |
| 22 | 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.  | 1.3 | 131       |
| 23 | 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.                                     | 1.7 | 130       |
| 24 | When are multiobjective calibration trade-offs in hydrologic models meaningful?. <i>Water Resources Research</i> , 2012, 48, .  | 1.7 | 121       |
| 25 | Many-objective de Novo water supply portfolio planning under deep uncertainty. <i>Environmental Modelling and Software</i> , 2012, 34, 87-104.  | 1.9 | 120       |
| 26 | Developing predictive insight into changing water systems: use-inspired hydrologic science for the Anthropocene. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5013-5039.                                | 1.9 | 119       |
| 27 | Many-objective groundwater monitoring network design using bias-aware ensemble Kalman filtering, evolutionary optimization, and visual analytics. <i>Water Resources Research</i> , 2011, 47, .                   | 1.7 | 118       |
| 28 | Time-varying sensitivity analysis clarifies the effects of watershed model formulation on model behavior. <i>Water Resources Research</i> , 2013, 49, 1400-1414.  | 1.7 | 115       |
| 29 | An open source framework for many-objective robust decision making. <i>Environmental Modelling and Software</i> , 2015, 74, 114-129.  | 1.9 | 114       |
| 30 | A diagnostic assessment of evolutionary algorithms for multi-objective surface water reservoir control. <i>Advances in Water Resources</i> , 2016, 92, 172-185.   | 1.7 | 105       |
| 31 | Simplifying multiobjective optimization: An automated design methodology for the nondominated sorted genetic algorithm-II. <i>Water Resources Research</i> , 2003, 39, .  | 1.7 | 102       |
| 32 | Many objective visual analytics: rethinking the design of complex engineered systems. <i>Structural and Multidisciplinary Optimization</i> , 2013, 48, 201-219.   | 1.7 | 98        |
| 33 | Many-objective optimization and visual analytics reveal key trade-offs for London's water supply. <i>Journal of Hydrology</i> , 2015, 531, 1040-1053.   | 2.3 | 95        |
| 34 | Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .  | 1.3 | 92        |
| 35 | Rival framings: A framework for discovering how problem formulation uncertainties shape risk management trade-offs in water resources systems. <i>Water Resources Research</i> , 2017, 53, 7208-7233.             | 1.7 | 90        |
| 36 | Navigating financial and supply reliability tradeoffs in regional drought management portfolios. <i>Water Resources Research</i> , 2014, 50, 4906-4923.   | 1.7 | 87        |

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|----|--|-----|-----------|
| 37 | Cooperative drought adaptation: Integrating infrastructure development, conservation, and water transfers into adaptive policy pathways. <i>Water Resources Research</i> , 2016, 52, 7327-7346.                                      | 1.7 | 84        |
| 38 | Reducing the Complexity of Multiobjective Water Distribution System Optimization through Global Sensitivity Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 196-207.                         | 1.3 | 82        |
| 39 | A multiobjective approach to cost effective long-term groundwater monitoring using an elitist nondominated sorted genetic algorithm with historical data. <i>Journal of Hydroinformatics</i> , 2001, 3, 71-89.                       | 1.1 | 79        |
| 40 | A top-down framework for watershed model evaluation and selection under uncertainty. <i>Environmental Modelling and Software</i> , 2009, 24, 901-916.  | 1.9 | 79        |
| 41 | Exploring How Changing Monsoonal Dynamics and Human Pressures Challenge Multireservoir Management for Flood Protection, Hydropower Production, and Agricultural Water Supply. <i>Water Resources Research</i> , 2018, 54, 4638-4662. | 1.7 | 77        |
| 42 | Water quality trading with asymmetric information, uncertainty and transaction costs: A stochastic agent-based simulation. <i>Resources and Energy Economics</i> , 2013, 35, 60-90.  | 1.1 | 75        |
| 43 | Synthetic Drought Scenario Generation to Support Bottom-Up Water Supply Vulnerability Assessments. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .   | 1.3 | 70        |
| 44 | Many-objective robust decision making for managing an ecosystem with a deeply uncertain threshold response. <i>Ecology and Society</i> , 2015, 20, .   | 1.0 | 68        |
| 45 | Multiobjective sensitivity analysis to understand the information content in streamflow observations for distributed watershed modeling. <i>Water Resources Research</i> , 2009, 45, .   | 1.7 | 65        |
| 46 | Balancing exploration, uncertainty and computational demands in many objective reservoir optimization. <i>Advances in Water Resources</i> , 2017, 109, 196-210.  | 1.7 | 65        |
| 47 | 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.                                     | 1.7 | 63        |
| 48 | Large-scale parallelization of the Borg multiobjective evolutionary algorithm to enhance the management of complex environmental systems. <i>Environmental Modelling and Software</i> , 2015, 69, 353-369.                           | 1.9 | 62        |
| 49 | Direct policy search for robust multi-objective management of deeply uncertain socio-ecological tipping points. <i>Environmental Modelling and Software</i> , 2017, 92, 125-141.   | 1.9 | 59        |
| 50 | Identifying parametric controls and dependencies in integrated assessment models using global sensitivity analysis. <i>Environmental Modelling and Software</i> , 2014, 59, 10-29.   | 1.9 | 58        |
| 51 | Rainfall characteristics define the value of streamflow observations for distributed watershed model identification. <i>Geophysical Research Letters</i> , 2008, 35, .   | 1.5 | 57        |
| 52 | Water Resources Management: The Myth, the Wicked, and the Future. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009, 135, 411-413.   | 1.3 | 56        |
| 53 | Scalable Multiobjective Control for Large-Scale Water Resources Systems Under Uncertainty. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1492-1499.   | 3.2 | 56        |
| 54 | Balancing Hydropower Development and Ecological Impacts in the Mekong: Tradeoffs for Sambor Mega Dam. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .  | 1.3 | 56        |

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|----|---|-----|-----------|
| 55 | Visual analytics clarify the scalability and effectiveness of massively parallel many-objective optimization: A groundwater monitoring design example. <i>Advances in Water Resources</i> , 2013, 56, 1-13.                 | 1.7 | 54        |
| 56 | Large Ensemble Analytic Framework for Consequence-Driven Discovery of Climate Change Scenarios. <i>Earth's Future</i> , 2018, 6, 488-504.   | 2.4 | 54        |
| 57 | Structuring and evaluating decision support processes to enhance the robustness of complex human-natural systems. <i>Environmental Modelling and Software</i> , 2020, 123, 104551.  | 1.9 | 53        |
| 58 | Using interactive archives in evolutionary multiobjective optimization: A case study for long-term groundwater monitoring design. <i>Environmental Modelling and Software</i> , 2007, 22, 683-692.                          | 1.9 | 51        |
| 59 | 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.  | 1.9 | 50        |
| 60 | A State-of-the-Art Review of Optimal Reservoir Control for Managing Conflicting Demands in a Changing World. <i>Water Resources Research</i> , 2021, 57, e2021WR029927.   | 1.7 | 49        |
| 61 | Spatial Interpolation Methods for Nonstationary Plume Data. <i>Ground Water</i> , 2004, 42, 190-202.  | 0.7 | 47        |
| 62 | Multisector Dynamics: Advancing the Science of Complex Adaptive Human-Earth Systems. <i>Earth's Future</i> , 2022, 10, .  | 2.4 | 47        |
| 63 | The Value of Online Adaptive Search: A Performance Comparison of NSGAI, $\mu$ -NSGAI and $\mu$ MOEA. <i>Lecture Notes in Computer Science</i> , 2005, , 386-398.  | 1.0 | 46        |
| 64 | Flood and drought hydrologic monitoring: the role of model parameter uncertainty. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3239-3251.   | 1.9 | 46        |
| 65 | Deep Uncertainties in Sea-Level Rise and Storm Surge Projections: Implications for Coastal Flood Risk Management. <i>Risk Analysis</i> , 2020, 40, 153-168.   | 1.5 | 42        |
| 66 | Robust abatement pathways to tolerable climate futures require immediate global action. <i>Nature Climate Change</i> , 2019, 9, 290-294.  | 8.1 | 41        |
| 67 | What Is Controlling Our Control Rules? Opening the Black Box of Multireservoir Operating Policies Using Time-Varying Sensitivity Analysis. <i>Water Resources Research</i> , 2019, 55, 5962-5984.                           | 1.7 | 40        |
| 68 | 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.   | 1.7 | 39        |
| 69 | Comparative analysis of multiobjective evolutionary algorithms for random and correlated instances of multiobjective d-dimensional knapsack problems. <i>European Journal of Operational Research</i> , 2011, 211, 466-479. | 3.5 | 38        |
| 70 | Save now, pay later? Multi-period many-objective groundwater monitoring design given systematic model errors and uncertainty. <i>Advances in Water Resources</i> , 2012, 35, 55-68.   | 1.7 | 38        |
| 71 | Battling Arrow's Paradox to Discover Robust Water Management Alternatives. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .  | 1.3 | 34        |
| 72 | Diagnostic assessment of the borg MOEA for many-objective product family design problems. , 2012, , .   |     | 33        |

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|----|---|-----|-----------|
| 73 | Bridging river basin scales and processes to assess human-climate impacts and the terrestrial hydrologic system. <i>Water Resources Research</i> , 2006, 42, .  | 1.7 | 32        |
| 74 | Climate risk management requires explicit representation of societal trade-offs. <i>Climatic Change</i> , 2016, 134, 713-723.   | 1.7 | 32        |
| 75 | Confronting tipping points: Can multi-objective evolutionary algorithms discover pollution control tradeoffs given environmental thresholds?. <i>Environmental Modelling and Software</i> , 2015, 73, 27-43.          | 1.9 | 30        |
| 76 | Discovering Dependencies, Trade-offs, and Robustness in Joint Dam Design and Operation: An Ex-Post Assessment of the Kariba Dam. <i>Earth's Future</i> , 2019, 7, 1367-1390.  | 2.4 | 30        |
| 77 | Can Exploratory Modeling of Water Scarcity Vulnerabilities and Robustness Be Scenario Neutral?. <i>Earth's Future</i> , 2020, 8, e2020EF001650.   | 2.4 | 30        |
| 78 | Defining Robustness, Vulnerabilities, and Consequential Scenarios for Diverse Stakeholder Interests in Institutionally Complex River Basins. <i>Earth's Future</i> , 2020, 8, e2020EF001503.                          | 2.4 | 30        |
| 79 | Low cost satellite constellations for nearly continuous global coverage. <i>Nature Communications</i> , 2020, 11, 200.  | 5.8 | 29        |
| 80 | 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.    | 1.9 | 29        |
| 81 | Multi-Objective Design Optimization for Product Platform and Product Family Design Using Genetic Algorithms. , 2005, , 999.   |     | 27        |
| 82 | Water pathways: An open source stochastic simulation system for integrated water supply portfolio management and infrastructure investment planning. <i>Environmental Modelling and Software</i> , 2020, 132, 104772. | 1.9 | 24        |
| 83 | Evolving many-objective water management to exploit exascale computing. <i>Water Resources Research</i> , 2014, 50, 8367-8373.  | 1.7 | 23        |
| 84 | 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.     | 1.7 | 22        |
| 85 | Compound hydrometeorological extremes across multiple timescales drive volatility in California electricity market prices and emissions. <i>Applied Energy</i> , 2020, 276, 115541.                                   | 5.1 | 21        |
| 86 | Accounting for Adaptive Water Supply Management When Quantifying Climate and Land Cover Change Vulnerability. <i>Water Resources Research</i> , 2020, 56, e2019WR025614.  | 1.7 | 20        |
| 87 | Unintended consequences of climate change mitigation for African river basins. <i>Nature Climate Change</i> , 2022, 12, 187-192.  | 8.1 | 19        |
| 88 | Advances in the identification and evaluation of complex environmental systems models. <i>Journal of Hydroinformatics</i> , 2009, 11, 266-281.  | 1.1 | 18        |
| 89 | Many-objective reconfiguration of operational satellite constellations with the Large-Cluster Epsilon Non-dominated Sorting Genetic Algorithm-II. , 2009, , .   |     | 17        |
| 90 | Operational constraints and hydrologic variability limit hydropower in supporting wind integration. <i>Environmental Research Letters</i> , 2013, 8, 024037.  | 2.2 | 17        |

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|-----|--|-----|-----------|
| 91  | 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. | 2.2 | 17        |
| 92  | Planned relocation: Pluralistic and integrated science and governance. <i>Science</i> , 2021, 372, 1276-1279.  | 6.0 | 17        |
| 93  | 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.      | 1.9 | 17        |
| 94  | Rhodium: Python Library for Many-Objective Robust Decision Making and Exploratory Modeling. <i>Journal of Open Research Software</i> , 2020, 8, 12.  | 2.7 | 16        |
| 95  | Inaction and climate stabilization uncertainties lead to severe economic risks. <i>Climatic Change</i> , 2014, 127, 463-474.   | 1.7 | 15        |
| 96  | Early systems change necessary for catalyzing long-term sustainability in a post-2030 agenda. <i>One Earth</i> , 2022, 5, 792-811.   | 3.6 | 15        |
| 97  | Addressing model bias and uncertainty in three dimensional groundwater transport forecasts for a physical aquifer experiment. <i>Geophysical Research Letters</i> , 2008, 35, .                                    | 1.5 | 14        |
| 98  | Parallel Evolutionary Multi-Objective Optimization on Large, Heterogeneous Clusters: An Applications Perspective. <i>Journal of Aerospace Computing, Information, and Communication</i> , 2008, 5, 460-478.        | 0.8 | 14        |
| 99  | An open source reservoir and sediment simulation framework for identifying and evaluating siting, design, and operation alternatives. <i>Environmental Modelling and Software</i> , 2021, 136, 104947.             | 1.9 | 13        |
| 100 | Coordination and control " limits in standard representations of multi-reservoir operations in hydrological modeling. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1365-1388.                            | 1.9 | 13        |
| 101 | Diagnosing the Time-Varying Value of Forecasts in Multiobjective Reservoir Control. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .  | 1.3 | 13        |
| 102 | GROUNDWATER MONITORING DESIGN: A CASE STUDY COMBINING EPSILON DOMINANCE ARCHIVING AND AUTOMATIC PARAMETERIZATION FOR THE NSGA-II. <i>Advances in Natural Computation</i> , 2004, , 79-100.                         | 0.1 | 13        |
| 103 | Water rights shape crop yield and revenue volatility tradeoffs for adaptation in snow dependent systems. <i>Nature Communications</i> , 2020, 11, 3473.  | 5.8 | 12        |
| 104 | Designing With Information Feedbacks: Forecast Informed Reservoir Sizing and Operation. <i>Water Resources Research</i> , 2021, 57, e2020WR028112.   | 1.7 | 12        |
| 105 | Improving the Robustness of Reservoir Operations with Stochastic Dynamic Programming. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .  | 1.3 | 12        |
| 106 | Many-Objective Evolutionary Optimisation and Visual Analytics for Product Family Design. , 2011, , 137-159.  |     | 12        |
| 107 | Genetic Algorithms (GAs) and Evolutionary Strategy to Optimize Electronic Nose Sensor Selection. <i>Transactions of the ASABE</i> , 2007, 51, 321-330.   | 1.1 | 11        |
| 108 | Integrating Raw Water Transfers into an Eastern United States Management Context. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 05018012.  | 1.3 | 11        |

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|-----|---|-----|-----------|
| 109 | Advancing Diagnostic Model Evaluation to Better Understand Water Shortage Mechanisms in Institutionally Complex River Basins. <i>Water Resources Research</i> , 2020, 56, e2020WR028079.                              | 1.7 | 10        |
| 110 | Managing Financial Risk Tradeoffs for Hydropower Generation Using Snowpack-Based Index Contracts. <i>Water Resources Research</i> , 2020, 56, e2020WR027212.  | 1.7 | 10        |
| 111 | Multi-objective optimization of root phenotypes for nutrient capture using evolutionary algorithms. <i>Plant Journal</i> , 2022, 111, 38-53.  | 2.8 | 9         |
| 112 | Diagnostic Framework for Evaluating How Parametric Uncertainty Influences Agro-Hydrologic Model Projections of Crop Yields Under Climate Change. <i>Water Resources Research</i> , 2022, 58, .                        | 1.7 | 9         |
| 113 | A Typology for Characterizing Human Action in MultiSector Dynamics Models. <i>Earth's Future</i> , 2022, 10, .  | 2.4 | 9         |
| 114 | Skill (or lack thereof) of data-model fusion techniques to provide an early warning signal for an approaching tipping point. <i>PLoS ONE</i> , 2018, 13, e0191768.  | 1.1 | 8         |
| 115 | Search Space Representation and Reduction Methods to Enhance Multiobjective Water Supply Monitoring Design. <i>Water Resources Research</i> , 2019, 55, 2257-2278.  | 1.7 | 8         |
| 116 | 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, . | 1.3 | 8         |
| 117 | Comparison of Multi-Objective Evolutionary Algorithms for Long-Term Monitoring Design. , 2005, , 1.   |     | 7         |
| 118 | The effects of air pollution sources / sensor array configurations on the likelihood of obtaining accurate source term estimations. <i>Atmospheric Environment</i> , 2021, 246, 117754.                               | 1.9 | 7         |
| 119 | Improving Information-Based Coordinated Operations in Interbasin Water Transfer Megaprojects: Case Study in Southern India. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .           | 1.3 | 7         |
| 120 | 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, .    | 2.4 | 7         |
| 121 | Impact of Inter-Utility Agreements on Cooperative Regional Water Infrastructure Investment and Management Pathways. <i>Water Resources Research</i> , 2022, 58, .   | 1.7 | 7         |
| 122 | Unveiling uncertainties to enhance sustainability transformations in infrastructure decision-making. <i>Current Opinion in Environmental Sustainability</i> , 2022, 55, 101172.                                       | 3.1 | 7         |
| 123 | Evaluating wind-following and ecosystem services for hydroelectric dams in PJM. <i>Journal of Regulatory Economics</i> , 2012, 41, 139-154.   | 0.8 | 6         |
| 124 | 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, .                                     | 1.7 | 6         |
| 125 | Resilient California Water Portfolios Require Infrastructure Investment Partnerships That Are Viable for All Partners. <i>Earth's Future</i> , 2022, 10, .  | 2.4 | 6         |
| 126 | The Role of the Systems Community in the National Science Foundation's Environmental Observatories. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2007, 133, 1-3.                                | 1.3 | 5         |



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|-----|--|-----|-----------|
| 127 | The Mid-Atlantic Watershed Atlas (MAWA): Open access data search & watershed-based community building. Environmental Modelling and Software, 2010, 25, 808-812.  | 1.9 | 5         |
| 128 | Navigating Deeply Uncertain Tradeoffs in Harvested Predator-Prey Systems. Complexity, 2020, 2020, 1-18.  | 0.9 | 5         |
| 129 | Impacts of irrigation efficiency on water-dependent sectors are heavily controlled by region-specific institutions and infrastructures. Journal of Environmental Management, 2021, 300, 113731.                                  | 3.8 | 5         |
| 130 | Pareto-Hypervolumes for the Reconfiguration of Satellite Constellations. , 2008, , .   |     | 4         |
| 131 | Adaptive mitigation strategies hedge against extreme climate futures. Climatic Change, 2021, 166, 1.   | 1.7 | 4         |
| 132 | Scalability Analysis of the Asynchronous, Master-Slave Borg Multiobjective Evolutionary Algorithm. , 2013, , .   |     | 3         |
| 133 | A Framework for the Discovery of Passive-Control, Minimum Energy Satellite Constellations. , 2014, , .   |     | 3         |
| 134 | A multi-objective paleo-informed reconstruction of western US weather regimes over the past 600 years. Climate Dynamics, 2023, 60, 339-358.  | 1.7 | 3         |
| 135 | A Multiobjective Approach to Long-Term Groundwater Monitoring Design. , 2000, , 1.   |     | 2         |
| 136 | Simplifying the Parameterization of Real-Coded Evolutionary Algorithms. , 2004, , 1.   |     | 1         |
| 137 | Multiobjective Long-Term Groundwater Monitoring Design: The Benefits of Biasing Search Towards Key Tradeoffs. , 2004, , 1.   |     | 1         |
| 138 | Multiobjective Tools and Strategies for Calibrating Integrated Models. , 2005, , 1.  |     | 1         |
| 139 | Computational Scaling Analysis of Multiobjective Evolutionary Algorithms in Long-Term Groundwater Monitoring Applications. , 2006, , 1.  |     | 1         |
| 140 | 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         |
| 141 | Sensitivity Analysis to Improve Water Distribution System Optimisation. , 2011, , .  |     | 1         |
| 142 | Improving the protection of aquatic ecosystems by dynamically constraining reservoir operation via direct policy conditioning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6252-6257. | 0.4 | 1         |
| 143 | Many Objective Visual Analytics: In Search of Search-as-a-Service. , 2014, , .   |     | 1         |
| 144 | Parallelization Strategies for Evolutionary Multiobjective Optimization. , 2006, , 1.  |     | 0         |

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|-----|--|-----|-----------|
| 145 | A Framework for Visually Interactive Decision-Making and Design Using Evolutionary Multiobjective Optimization (VIDEO). , 2007, , .                  |     | 0         |
| 146 | Many-Objective Risk-Based Planning within Complex Engineering Systems: An Urban Water Planning Example. , 2011, , .                                  |     | 0         |
| 147 | Auto-Adaptive Search Capabilities of the New Borg MOEA: A Detailed Comparison on Alternative Product Family Design Problem Formulations. , 2012, , . |     | 0         |
| 148 | Multi-Objective Evolutionary Algorithmsâ€™ Performance in a Support Role. , 2015, , .  |     | 0         |
| 149 | Thank You to Our 2021 Reviewers. Earth's Future, 2022, 10, .   | 2.4 | 0         |