Avril C Horne

List of Publications by Year
in descending order

44 papers	1,013 citations	687220 13 h-index	477173 29 g-index
45 all docs	45 docs citations	45 times ranked	1107 citing authors

#	Article	IF	Citations
1	The Brisbane Declaration and Global Action Agenda on Environmental Flows (2018). Frontiers in Environmental Science, 2018, 6, .	1.5	265
2	Prepare river ecosystems for an uncertain future. Nature, 2019, 570, 301-303.	13.7	142
3	Modeling Flow-Ecology Responses in the Anthropocene: Challenges for Sustainable Riverine Management. BioScience, 2019, 69, 789-799.	2.2	57
4	Using optimization to develop a â€œdesignerâ€•environmental flow regime. Environmental Modelling and Software, 2017, 88, 188-199.	1.9	49
5	Optimization tools for environmental water decisions: A review of strengths, weaknesses, and opportunities to improve adoption. Environmental Modelling and Software, 2016, 84, 326-338.	1.9	48
6	Research Priorities to Improve Future Environmental Water Outcomes. Frontiers in Environmental Science, 2017, 5, .	1.5	35
7	Evaluating four downscaling methods for assessment of climate change impact on ecological indicators. Environmental Modelling and Software, 2017, 96, 68-82.	1.9	25
8	Informing Environmental Water Management Decisions: Using Conditional Probability Networks to Address the Information Needs of Planning and Implementation Cycles. Environmental Management, 2018, 61, 347-357.	1.2	25
9	Using an economic framework to inform management of environmental entitlements. River Research and Applications, 2010, 26, 779-795.	0.7	20
10	Mechanisms to Allocate Environmental Water. , 2017, , 361-398.		20
11	Assessing the degree of hydrologic stress due to climate change. Climatic Change, 2019, 156, 87-104.	1.7	20
12	How to incorporate climate change into modelling environmental water outcomes: a review. Journal of Water and Climate Change, 2020, 11, 327-340.	1.2	19
13	Small artificial impoundments have big implications for hydrology and freshwater biodiversity. Frontiers in Ecology and the Environment, 2022, 20, 141-146.	1.9	18
14	Cry me a river: building trust and maintaining legitimacy in environmental flows. Australian Journal of Water Resources, 2019, 23, 1-13.	1.6	16
15	Climate change and freshwater ecology: Hydrological and ecological methods of comparable complexity are needed to predict risk. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, e692.	3.6	16
16	Vulnerability of Ecological Condition to the Sequencing of Wet and Dry Spells Prior to and during the Murray-Darling Basin Millennium Drought. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	14
17	Environmental water efficiency: Maximizing benefits and minimizing costs of environmental water use and management. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1285.	2.8	13
18	Active Management of Environmental Water to Improve Ecological Outcomes. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	13

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19	Understanding Hydrological Alteration. , 2017, , 37-64.		12
20	Estimating groundwater-river connectivity factor for quantifying changes in irrigation return flows in the Murrayâ€“Darling Basin. Australian Journal of Water Resources, 2020, 24, 121-138.	1.6	12
21	Considering scale within optimization procedures for water management decisions: Balancing environmental flows and human needs. Environmental Modelling and Software, 2021, 139, 104991.	1.9	12
22	Purposeful Stakeholder Engagement for Improved Environmental Flow Outcomes. Frontiers in Environmental Science, 2022, 9, .	1.5	12
23	Disaggregated monthly hydrological models can outperform daily models in providing daily flow statistics and extrapolate well to a drying climate. Journal of Hydrology, 2021, 598, 126471.	2.3	10
24	Not Just Another Assessment Method: Reimagining Environmental Flows Assessments in the Face of Uncertainty. Frontiers in Environmental Science, 2022, 10, .	1.5	10
25	Reviewing the decisionâ€making behavior of irrigators. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1366.	2.8	9
26	Sustainable water resources development in northern Australia: the need for coordination, integration and representation. International Journal of Water Resources Development, 2020, 36, 777-799.	1.2	9
27	Robust Climate Change Adaptation for Environmental Flows in the Goulburn River, Australia. Frontiers in Environmental Science, 2021, 9, .	1.5	9
28	Decision Making Roles and Responsibility for Environmental Water in the Murray-Darling Basin. Australian Journal of Water Resources, 2014, 18, 118-132.	1.6	8
29	The Environmental Water Management Cycle. , 2017, , 3-16.		8
30	Examining Trade-Offs in Piggybacking Flow Events while Making Environmental Release Decisions in a River System. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	8
31	The Challenge of Setting â€œClimate Readyâ€•Ecological Targets for Environmental Flow Planning. Frontiers in Environmental Science, 2022, 10, .	1.5	8
32	Assessing the Impact of Climate Change on Environmental Outcomes in the Context of Natural Climate Variability. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	7
33	Potential cumulative impacts on river flow volume from increased groundwater extraction under the Murray-Darling Basin Plan. Australian Journal of Water Resources, 2020, 24, 105-120.	1.6	7
34	Challenges for determining frequency of high flow spells for varying thresholds in environmental flows programmes. Journal of Ecohydraulics, 2017, 2, 28-37.	1.6	6
35	Assessing the Impact of Irrigation Efficiency Projects on Return Flows in the South-Eastern Murrayâ€“Darling Basin, Australia. Water (Switzerland), 2021, 13, 1366.	1.2	6
36	Dividing the Water, Sharing the Benefits. , 2019, , .		6

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37	Reallocation through irrigation modernization: The â€˜once-in-a-hundred-yearâ€™ opportunity of the North-South Pipeline, Australia. Water Security, 2019, 6, 100028.	1.2	5
38	The politicisation of science in the Murray-Darling Basin, Australia: discussion of â€˜Scientific integrity, public policy and water governanceâ€™. Australian Journal of Water Resources, 2021, 25, 141-158.	1.6	5
39	Integrated framework for rapid climate stress testing on a monthly timestep. Environmental Modelling and Software, 2022, 150, 105339.	1.9	5
40	â€˜Sub-Primeâ€™ Water, Low-Security Entitlements and Policy Challenges in Over-Allocated River Basins: the Case of the Murrayâ€“Darling Basin. Environmental Management, 2020, 66, 202-217.	1.2	4
41	Exploring the role and decision-making behaviour of irrigation water supply authorities in Australia. International Journal of Water Resources Development, 2023, 39, 314-336.	1.2	3
42	Nonstationary Runoff Responses Can Interact With Climate Change to Increase Severe Outcomes for Freshwater Ecology. Water Resources Research, 2022, 58, .	1.7	3
43	Visions, Objectives, Targets, and Goals. , 2017, , 189-199.		2
44	Management Options to Address Diffuse Causes of Hydrologic Alteration. , 2017, , 453-481.		2