

# Thomas A McMahon

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

5,549  
citations

201385

27  
h-index

174990

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

6174  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of paired catchment studies for determining changes in water yield resulting from alterations in vegetation. <i>Journal of Hydrology</i> , 2005, 310, 28-61.	2.3	1,229
2	Observed spatial organization of soil moisture and its relation to terrain indices. <i>Water Resources Research</i> , 1999, 35, 797-810.	1.7	646
3	Spatial correlation of soil moisture in small catchments and its relationship to dominant spatial hydrological processes. <i>Journal of Hydrology</i> , 2004, 286, 113-134.	2.3	532
4	Estimating actual, potential, reference crop and pan evaporation using standard meteorological data: a pragmatic synthesis. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1331-1363.	1.9	430
5	Physically based hydrologic modeling: 2. Is the concept realistic?. <i>Water Resources Research</i> , 1992, 28, 2659-2666.	1.7	426
6	Modelling the impacts of climate change on Australian streamflow. <i>Hydrological Processes</i> , 2002, 16, 1235-1245.	1.1	184
7	Global ENSO-streamflow teleconnection, streamflow forecasting and interannual variability. <i>Hydrological Sciences Journal</i> , 2002, 47, 505-522.	1.2	180
8	Understanding performance measures of reservoirs. <i>Journal of Hydrology</i> , 2006, 324, 359-382.	2.3	165
9	Impact of forest cover changes on annual streamflow and flow duration curves. <i>Journal of Hydrology</i> , 2013, 483, 39-50.	2.3	118
10	Vegetation impact on mean annual evapotranspiration at a global catchment scale. <i>Water Resources Research</i> , 2010, 46, .	1.7	111
11	Continental differences in the variability of annual runoff-update and reassessment. <i>Journal of Hydrology</i> , 2004, 295, 185-197.	2.3	105
12	The utility of L-moment ratio diagrams for selecting a regional probability distribution. <i>Hydrological Sciences Journal</i> , 2001, 46, 147-155.	1.2	96
13	Global streamflows “ Part 1: Characteristics of annual streamflows. <i>Journal of Hydrology</i> , 2007, 347, 243-259.	2.3	96
14	Identification and explanation of continental differences in the variability of annual runoff. <i>Journal of Hydrology</i> , 2001, 250, 224-240.	2.3	95
15	Flow characteristics of rivers in northern Australia: Implications for development. <i>Journal of Hydrology</i> , 2008, 357, 93-111.	2.3	92
16	Revisiting reservoir storage“yield relationships using a global streamflow database. <i>Advances in Water Resources</i> , 2007, 30, 1858-1872.	1.7	71
17	A stochastic model of hydraulic variations within stream channels. <i>Water Resources Research</i> , 2002, 38, 8-1-8-.	1.7	70
18	Assessment of precipitation and temperature data from CMIP3 global climate models for hydrologic simulation. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 361-377.	1.9	68

#	ARTICLE	IF	CITATIONS
19	Historical developments of models for estimating evaporation using standard meteorological data. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 788-818.	2.8	68
20	Global streamflows – Part 2: Reservoir storage–yield performance. <i>Journal of Hydrology</i> , 2007, 347, 260-271.	2.3	49
21	Simple Nonlinear Model for Flood Estimation. <i>Journal of Hydraulic Engineering</i> , 1974, 100, 1507-1518.	0.2	39
22	Variability of Annual Precipitation and Its Relationship to the El Niño–Southern Oscillation. <i>Journal of Climate</i> , 2002, 15, 545-551.	1.2	38
23	Review of Gould–Dincer reservoir storage–yield–reliability estimates. <i>Advances in Water Resources</i> , 2007, 30, 1873-1882.	1.7	38
24	Historical development of rainfall–runoff modeling. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1471.	2.8	37
25	Global streamflows – Part 3: Country and climate zone characteristics. <i>Journal of Hydrology</i> , 2007, 347, 272-291.	2.3	35
26	Implications of the relationship between catchment vegetation type and the variability of annual runoff. <i>Hydrological Processes</i> , 2002, 16, 2995-3002.	1.1	31
27	Large-scale distribution modelling and the utility of detailed ground data. <i>Hydrological Processes</i> , 1998, 12, 873-888.	1.1	30
28	Understanding the surface hydrology of the Lake Eyre Basin: Part 1 – Rainfall. <i>Journal of Arid Environments</i> , 2008, 72, 1853-1868.	1.2	30
29	Determining loss characteristics of arid zone river waterbodies. <i>River Research and Applications</i> , 2007, 23, 715-731.	0.7	29
30	A Simple Methodology for Estimating Mean and Variability of Annual Runoff and Reservoir Yield under Present and Future Climates. <i>Journal of Hydrometeorology</i> , 2011, 12, 135-146.	0.7	29
31	Approximating uncertainty of annual runoff and reservoir yield using stochastic replicates of global climate model data. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1615-1639.	1.9	29
32	A New Approach to Stochastically Generating Six-Monthly Rainfall Sequences Based on Empirical Mode Decomposition. <i>Journal of Hydrometeorology</i> , 2008, 9, 1377-1389.	0.7	28
33	The (mis)behavior of behavior analysis storage estimates. <i>Water Resources Research</i> , 1997, 33, 703-709.	1.7	26
34	Global analysis of runs of annual precipitation and runoff equal to or below the median: run magnitude and severity. <i>International Journal of Climatology</i> , 2005, 25, 549-568.	1.5	26
35	Global analysis of runs of annual precipitation and runoff equal to or below the median: run length. <i>International Journal of Climatology</i> , 2004, 24, 807-822.	1.5	25
36	Uncertainty in stage–discharge rating curves: application to Australian Hydrologic Reference Stations data. <i>Hydrological Sciences Journal</i> , 2019, 64, 255-275.	1.2	25

#	ARTICLE	IF	CITATIONS
37	Spatial and temporal variability of water salinity in an ephemeral, arid-zone river, central Australia. <i>Hydrological Processes</i> , 2005, 19, 3147-3166.	1.1	24
38	Modelling stream flow for use in ecological studies in a large, arid zone river, central Australia. <i>Hydrological Processes</i> , 2005, 19, 1165-1183.	1.1	22
39	Baseflow and transmission loss: A review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1527.	2.8	22
40	Recent frequency component changes in interannual climate variability. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	21
41	Using an economic framework to inform management of environmental entitlements. <i>River Research and Applications</i> , 2010, 26, 779-795.	0.7	20
42	Assessing the degree of hydrologic stress due to climate change. <i>Climatic Change</i> , 2019, 156, 87-104.	1.7	20
43	Stochastic Generation of Monthly Streamflows. <i>Journal of Hydraulic Engineering</i> , 1982, 108, 419-441.	0.2	17
44	Reply to comment by Tromp van Meerveld and McDonnell on Spatial correlation of soil moisture in small catchments and its relationship to dominant spatial hydrological processes. <i>Journal of Hydrology</i> , 2005, 303, 313-315.	2.3	12
45	A Continental Scale Assessment of Australia's Potential for Irrigation. <i>Water Resources Management</i> , 2010, 24, 1791-1817.	1.9	12
46	Overcoming third party effects from water trading in the Murray-Darling Basin. <i>Water Policy</i> , 2006, 8, 69-80.	0.7	11
47	Estimating evaporation based on standard meteorological data – progress since 2007. <i>Progress in Physical Geography</i> , 2014, 38, 241-250.	1.4	10
48	Calculating exchange rates for water trading in the Murray-Darling Basin, Australia. <i>Water Resources Research</i> , 2004, 40, .	1.7	9
49	Evaluation of rapid reservoir storage-yield procedures. <i>Advances in Water Resources</i> , 1982, 5, 208-216.	1.7	7
50	Comment on the application of the Szilagyi's "Jozsa advection" aridity model for estimating actual terrestrial evapotranspiration in "Estimating actual, potential, reference crop and pan evaporation using standard meteorological data: a pragmatic synthesis" by McMahon et al. (2013). <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4865-4867.	1.9	6
51	On the Adoption of Research and Development Outcomes in Integrated Catchment Management. <i>Australasian Journal of Environmental Management</i> , 2000, 7, 147-157.	0.6	4
52	Developing a methodology to calculate water trading exchange rates. <i>Australian Journal of Water Resources</i> , 2003, 7, 41-47.	1.6	4
53	Understanding global hydrology. , 2011, , 23-45.		2
54	Discussion of: Finkl, C.W. and Cathcart, R.B., 2011. The "Morning Glory" Project: A Papua New Guinea-Queensland Australia Undersea Freshwater Pipeline, <i>Journal of Coastal Research</i> , 27(4), 607-618. <i>Journal of Coastal Research</i> , 2012, 28, 979.	0.1	0