

Murray C Peel

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

12,675
citations

101496

36
h-index

71651

76
g-index

106
all docs

106
docs citations

106
times ranked

17706
citing authors

#	ARTICLE	IF	CITATIONS
1	Updated world map of the Köppen-Geiger climate classification. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1633-1644.	1.9	7,579
2	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
3	The influence of multiyear drought on the annual rainfall-runoff relationship: An Australian perspective. <i>Water Resources Research</i> , 2015, 51, 2444-2463.	1.7	158
4	Simulating runoff under changing climatic conditions: Revisiting an apparent deficiency of conceptual rainfall-runoff models. <i>Water Resources Research</i> , 2016, 52, 1820-1846.	1.7	136
5	Watersheds may not recover from drought. <i>Science</i> , 2021, 372, 745-749.	6.0	113
6	Vegetation impact on mean annual evapotranspiration at a global catchment scale. <i>Water Resources Research</i> , 2010, 46, .	1.7	111
7	Continental differences in the variability of annual runoff-update and reassessment. <i>Journal of Hydrology</i> , 2004, 295, 185-197.	2.3	105
8	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
9	Global streamflows – Part 1: Characteristics of annual streamflows. <i>Journal of Hydrology</i> , 2007, 347, 243-259.	2.3	96
10	Identification and explanation of continental differences in the variability of annual runoff. <i>Journal of Hydrology</i> , 2001, 250, 224-240.	2.3	95
11	Flow characteristics of rivers in northern Australia: Implications for development. <i>Journal of Hydrology</i> , 2008, 357, 93-111.	2.3	92
12	Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability. <i>Scientific Reports</i> , 2017, 7, 6282.	1.6	92
13	Decadal Trends in Evaporation from Global Energy and Water Balances. <i>Journal of Hydrometeorology</i> , 2012, 13, 379-391.	0.7	89
14	Predicting shifts in rainfall-runoff partitioning during multiyear drought: Roles of dry period and catchment characteristics. <i>Water Resources Research</i> , 2016, 52, 9290-9305.	1.7	86
15	Changes in Antecedent Soil Moisture Modulate Flood Seasonality in a Changing Climate. <i>Water Resources Research</i> , 2020, 56, e2019WR026300.	1.7	81
16	Modular Assessment of Rainfall-Runoff Models Toolbox (MARRMoT) v1.2: an open-source, extendable framework providing implementations of 46 conceptual hydrologic models as continuous state-space formulations. <i>Geoscientific Model Development</i> , 2019, 12, 2463-2480.	1.3	74
17	A Brief Analysis of Conceptual Model Structure Uncertainty Using 36 Models and 559 Catchments. <i>Water Resources Research</i> , 2020, 56, e2019WR025975.	1.7	72
18	Revisiting reservoir storage-yield relationships using a global streamflow database. <i>Advances in Water Resources</i> , 2007, 30, 1858-1872.	1.7	71

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19	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
20	Historical developments of models for estimating evaporation using standard meteorological data. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 788-818.	2.8	68
21	Bias in streamflow projections due to climate-induced shifts in catchment response. <i>Geophysical Research Letters</i> , 2016, 43, 1574-1581.	1.5	68
22	Improved Rainfall-Runoff Calibration for Drying Climate: Choice of Objective Function. <i>Water Resources Research</i> , 2018, 54, 3392-3408.	1.7	68
23	Simulating Runoff Under Changing Climatic Conditions: A Framework for Model Improvement. <i>Water Resources Research</i> , 2018, 54, 9812-9832.	1.7	58
24	Equifinality and Flux Mapping: A New Approach to Model Evaluation and Process Representation Under Uncertainty. <i>Water Resources Research</i> , 2019, 55, 8922-8941.	1.7	57
25	Many Commonly Used Rainfall-Runoff Models Lack Long, Slow Dynamics: Implications for Runoff Projections. <i>Water Resources Research</i> , 2020, 56, e2019WR025286.	1.7	54
26	Empirical mode decomposition using rational splines: an application to rainfall time series. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 1483-1501.	1.0	52
27	Modelling the long term water yield impact of wildfire and other forest disturbance in Eucalypt forests. <i>Environmental Modelling and Software</i> , 2010, 25, 467-478.	1.9	51
28	Trends in Global Flood and Streamflow Timing Based on Local Water Year. <i>Water Resources Research</i> , 2020, 56, e2020WR027233.	1.7	50
29	Global streamflows – Part 2: Reservoir storage yield performance. <i>Journal of Hydrology</i> , 2007, 347, 260-271.	2.3	49
30	The Hydrology of the Mekong River. , 2009, , 53-76.		49
31	Understanding the surface hydrology of the Lake Eyre Basin: Part 2 – Streamflow. <i>Journal of Arid Environments</i> , 2008, 72, 1869-1886.	1.2	46
32	The effect of year-to-year variability of leaf area index on Variable Infiltration Capacity model performance and simulation of runoff. <i>Advances in Water Resources</i> , 2015, 83, 310-322.	1.7	46
33	A quality-controlled global runoff data set. <i>Nature</i> , 2006, 444, E14-E14.	13.7	44
34	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
35	Review of Gould-Dincer reservoir storage yield reliability estimates. <i>Advances in Water Resources</i> , 2007, 30, 1873-1882.	1.7	38
36	Historical development of rainfall-runoff modeling. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1471.	2.8	37

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37	Global streamflows – Part 3: Country and climate zone characteristics. <i>Journal of Hydrology</i> , 2007, 347, 272-291.	2.3	35
38	CAMELS-AUS: hydrometeorological time series and landscape attributes for 222 catchments in Australia. <i>Earth System Science Data</i> , 2021, 13, 3847-3867.	3.7	33
39	Trends in winter fog events in the Terai region of Nepal. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 118-130.	1.9	32
40	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
41	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
42	Assessing the performance of rational spline-based empirical mode decomposition using a global annual precipitation dataset. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 1919-1937.	1.0	29
43	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
44	Leaf Area Index Variation for Crop, Pasture, and Tree in Response to Climatic Variation in the Goulburn–Broken Catchment, Australia. <i>Journal of Hydrometeorology</i> , 2014, 15, 1592-1606.	0.7	29
45	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
46	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
47	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
48	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
49	Evaluating four downscaling methods for assessment of climate change impact on ecological indicators. <i>Environmental Modelling and Software</i> , 2017, 96, 68-82.	1.9	25
50	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
51	Generalized extreme value distribution fitted by LH moments for low-flow frequency analysis. <i>Water Resources Research</i> , 2007, 43, .	1.7	22
52	Recent frequency component changes in interannual climate variability. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	21
53	Including the dynamic relationship between climatic variables and leaf area index in a hydrological model to improve streamflow prediction under a changing climate. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2821-2836.	1.9	20
54	Assessing the degree of hydrologic stress due to climate change. <i>Climatic Change</i> , 2019, 156, 87-104.	1.7	20

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55	Decreases in relative humidity across Australia. <i>Environmental Research Letters</i> , 2021, 16, 074023.	2.2	18
56	The sensitivity of catchment hypsometry and hypsometric properties to DEM resolution and polynomial order. <i>Geomorphology</i> , 2018, 309, 112-120.	1.1	15
57	The first 300-year streamflow reconstruction of a high-elevation river in Chile using tree rings. <i>International Journal of Climatology</i> , 2018, 38, 436-451.	1.5	15
58	Excluding stock from riverbanks for environmental restoration: The influence of social norms, drought, and off-farm income on landholder behaviour. <i>Journal of Rural Studies</i> , 2018, 62, 116-124.	2.1	15
59	AWAPer: An R package for area weighted catchment daily meteorological data anywhere within Australia. <i>Hydrological Processes</i> , 2020, 34, 1301-1306.	1.1	15
60	Prediction of annual runoff in ungauged basins. , 2013, , 70-101.		14
61	Vulnerability of Ecological Condition to the Sequencing of Wet and Dry Spells Prior to and during the Murray-Darling Basin Millennium Drought. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	14
62	Assessment of eight reference evapotranspiration (ET _o) methods considering Köppen climate class in Iran. <i>Hydrological Sciences Journal</i> , 2018, 63, 1468-1481.	1.2	13
63	A Continental Scale Assessment of Australia's Potential for Irrigation. <i>Water Resources Management</i> , 2010, 24, 1791-1817.	1.9	12
64	Understanding Hydrological Alteration. , 2017, , 37-64.		12
65	Amplification of risks to water supply at 1.5 °C and 2 °C in drying climates: a case study for Melbourne, Australia. <i>Environmental Research Letters</i> , 2019, 14, 084028.	2.2	11
66	Estimating evaporation based on standard meteorological data – progress since 2007. <i>Progress in Physical Geography</i> , 2014, 38, 241-250.	1.4	10
67	Uncertainties in runoff projections in southwestern Australian catchments using a global climate model with perturbed physics. <i>Journal of Hydrology</i> , 2015, 529, 184-199.	2.3	9
68	Towards more realistic runoff projections by removing limits on simulated soil moisture deficit. <i>Journal of Hydrology</i> , 2021, 600, 126505.	2.3	8
69	Corrigendum to "Estimating actual, potential, reference crop and pan evaporation using standard meteorological data: a pragmatic synthesis" published in <i>Hydrol. Earth Syst. Sci.</i> , 17, 1331-1363, 2013. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4503-4503.	1.9	6
70	Comment on the application of the Szilagyi-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
71	Integrated framework for rapid climate stress testing on a monthly timestep. <i>Environmental Modelling and Software</i> , 2022, 150, 105339.	1.9	5
72	Justin Costelloe: a champion of arid-zone water research. <i>Hydrogeology Journal</i> , 2020, 28, 37-41.	0.9	4

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73	â€œSub-Primeâ€™ Water, Low-Security Entitlements and Policy Challenges in Over-Allocated River Basins: the Case of the Murrayâ€œDarling Basin. <i>Environmental Management</i> , 2020, 66, 202-217.	1.2	4
74	Development of a Regression Model for Estimating Daily Radiative Forcing Due to Atmospheric Aerosols from Moderate Resolution Imaging Spectrometers (MODIS) Data in the Indo Gangetic Plain (IGP). <i>Atmosphere</i> , 2018, 9, 405.	1.0	3
75	Lessons from Flipping Subjects in Engineering: Effectiveness of Student Learning in a Flipped Environment at the University Level. <i>Journal of Civil Engineering Education</i> , 2021, 147, .	0.8	3
76	Understanding regional streamflow trend magnitudes in the Southern Murray-Darling Basin, Australia. <i>Australian Journal of Water Resources</i> , 2022, 26, 213-226.	1.6	3
77	Understanding global hydrology. , 2011, , 23-45.		2
78	Analysis of within and between-GCM uncertainties of runoff projections in Mediterranean-like catchments.. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2017, 67, 181-213.	0.7	1
79	Ensemble Empirical Mode Decomposition of Australian monthly rainfall and temperature data. , 0, , .		1
80	Ensemble Empirical Mode Decomposition of monthly climatic indices relevant to Australian hydroclimatology. , 0, , .		1
81	Climate and Rivers. , 2009, , 344-356.		0
82	Discussion of: Finkl, C.W. and Cathcart, R.B., 2011. The â€œMorning Gloryâ€•Project: A Papua New Guineaâ€œQueensland Australia Undersea Freshwater Pipeline, <i>Journal of Coastal Research</i> , 27(4), 607â€œ618. <i>Journal of Coastal Research</i> , 2012, 28, 979.	0.1	0
83	Can riparian eucalypts be used for hydroclimatic reconstruction? The case for <i>Eucalyptus coolabah</i> to define palaeo-flood events. <i>Journal of Arid Environments</i> , 2021, 184, 104301.	1.2	0
84	Analysis of within and between-GCM uncertainties of runoff projections in Mediterranean-like catchments. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2017, 67, 181.	0.7	0