

# Murray C Peel

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

12,675  
citations

101543

36  
h-index

71685

76  
g-index

106  
all docs

106  
docs citations

106  
times ranked

17706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated framework for rapid climate stress testing on a monthly timestep. <i>Environmental Modelling and Software</i> , 2022, 150, 105339.	4.5	5
2	Understanding regional streamflow trend magnitudes in the Southern Murray-Darling Basin, Australia. <i>Australian Journal of Water Resources</i> , 2022, 26, 213-226.	2.7	3
3	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.	2.4	0
4	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, .	1.4	3
5	Watersheds may not recover from drought. <i>Science</i> , 2021, 372, 745-749.	12.6	113
6	Decreases in relative humidity across Australia. <i>Environmental Research Letters</i> , 2021, 16, 074023.	5.2	18
7	CAMELS-AUS: hydrometeorological time series and landscape attributes for 222 catchments in Australia. <i>Earth System Science Data</i> , 2021, 13, 3847-3867.	9.9	33
8	Towards more realistic runoff projections by removing limits on simulated soil moisture deficit. <i>Journal of Hydrology</i> , 2021, 600, 126505.	5.4	8
9	Justin Costelloe: a champion of arid-zone water research. <i>Hydrogeology Journal</i> , 2020, 28, 37-41.	2.1	4
10	AWAPer: An R package for area weighted catchment daily meteorological data anywhere within Australia. <i>Hydrological Processes</i> , 2020, 34, 1301-1306.	2.6	15
11	A Brief Analysis of Conceptual Model Structure Uncertainty Using 36 Models and 559 Catchments. <i>Water Resources Research</i> , 2020, 56, e2019WR025975.	4.2	72
12	Historical development of rainfall-runoff modeling. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1471.	6.5	37
13	“Sub-Prime”™ Water, Low-Security Entitlements and Policy Challenges in Over-Allocated River Basins: the Case of the Murray-Darling Basin. <i>Environmental Management</i> , 2020, 66, 202-217.	2.7	4
14	Trends in Global Flood and Streamflow Timing Based on Local Water Year. <i>Water Resources Research</i> , 2020, 56, e2020WR027233.	4.2	50
15	Changes in Antecedent Soil Moisture Modulate Flood Seasonality in a Changing Climate. <i>Water Resources Research</i> , 2020, 56, e2019WR026300.	4.2	81
16	Many Commonly Used Rainfall-Runoff Models Lack Long, Slow Dynamics: Implications for Runoff Projections. <i>Water Resources Research</i> , 2020, 56, e2019WR025286.	4.2	54
17	Assessing the degree of hydrologic stress due to climate change. <i>Climatic Change</i> , 2019, 156, 87-104.	3.6	20
18	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.	3.6	74

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19	Amplification of risks to water supply at 1.5 Å°C and 2 Å°C in drying climates: a case study for Melbourne, Australia. <i>Environmental Research Letters</i> , 2019, 14, 084028.	5.2	11
20	Equifinality and Flux Mapping: A New Approach to Model Evaluation and Process Representation Under Uncertainty. <i>Water Resources Research</i> , 2019, 55, 8922-8941.	4.2	57
21	Uncertainty in stage-“discharge rating curves: application to Australian Hydrologic Reference Stations data. <i>Hydrological Sciences Journal</i> , 2019, 64, 255-275.	2.6	25
22	The sensitivity of catchment hypsometry and hypsometric properties to DEM resolution and polynomial order. <i>Geomorphology</i> , 2018, 309, 112-120.	2.6	15
23	Improved Rainfall-Runoff Calibration for Drying Climate: Choice of Objective Function. <i>Water Resources Research</i> , 2018, 54, 3392-3408.	4.2	68
24	Trends in winter fog events in the Terai region of Nepal. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 118-130.	4.8	32
25	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.	3.5	15
26	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.	2.3	3
27	Simulating Runoff Under Changing Climatic Conditions: A Framework for Model Improvement. <i>Water Resources Research</i> , 2018, 54, 9812-9832.	4.2	58
28	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.	4.7	15
29	Assessment of eight reference evapotranspiration (ET <sub>o</sub> ) methods considering Köppen climate class in Iran. <i>Hydrological Sciences Journal</i> , 2018, 63, 1468-1481.	2.6	13
30	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, .	2.6	14
31	Understanding Hydrological Alteration. , 2017, , 37-64.		12
32	Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability. <i>Scientific Reports</i> , 2017, 7, 6282.	3.3	92
33	Evaluating four downscaling methods for assessment of climate change impact on ecological indicators. <i>Environmental Modelling and Software</i> , 2017, 96, 68-82.	4.5	25
34	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.	1.8	1
35	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.	1.8	0
36	Historical developments of models for estimating evaporation using standard meteorological data. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 788-818.	6.5	68

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37	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.	4.2	86
38	Simulating runoff under changing climatic conditions: Revisiting an apparent deficiency of conceptual rainfall-runoff models. <i>Water Resources Research</i> , 2016, 52, 1820-1846.	4.2	136
39	Bias in streamflow projections due to climate-induced shifts in catchment response. <i>Geophysical Research Letters</i> , 2016, 43, 1574-1581.	4.0	68
40	The influence of multiyear drought on the annual rainfall-runoff relationship: An Australian perspective. <i>Water Resources Research</i> , 2015, 51, 2444-2463.	4.2	158
41	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.	4.9	20
42	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.	4.9	29
43	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.	4.9	68
44	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.	5.4	9
45	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.	3.8	46
46	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.	1.9	29
47	Estimating evaporation based on standard meteorological data – progress since 2007. <i>Progress in Physical Geography</i> , 2014, 38, 241-250.	3.2	10
48	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.	4.9	430
49	Prediction of annual runoff in ungauged basins. , 2013, , 70-101.		14
50	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.	4.9	6
51	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.	4.9	6
52	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.	0.3	0
53	Decadal Trends in Evaporation from Global Energy and Water Balances. <i>Journal of Hydrometeorology</i> , 2012, 13, 379-391.	1.9	89
54	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.	1.9	29

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55	Understanding global hydrology. , 2011, , 23-45.		2
56	A Continental Scale Assessment of Australia's Potential for Irrigation. Water Resources Management, 2010, 24, 1791-1817.	3.9	12
57	Modelling the long term water yield impact of wildfire and other forest disturbance in Eucalypt forests. Environmental Modelling and Software, 2010, 25, 467-478.	4.5	51
58	Vegetation impact on mean annual evapotranspiration at a global catchment scale. Water Resources Research, 2010, 46, .	4.2	111
59	Assessing the performance of rational spline-based empirical mode decomposition using a global annual precipitation dataset. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 1919-1937.	2.1	29
60	The Hydrology of the Mekong River. , 2009, , 53-76.		49
61	Climate and Rivers. , 2009, , 344-356.		0
62	Flow characteristics of rivers in northern Australia: Implications for development. Journal of Hydrology, 2008, 357, 93-111.	5.4	92
63	Understanding the surface hydrology of the Lake Eyre Basin: Part 2 "Streamflow. Journal of Arid Environments, 2008, 72, 1869-1886.	2.4	46
64	Understanding the surface hydrology of the Lake Eyre Basin: Part 1 "Rainfall. Journal of Arid Environments, 2008, 72, 1853-1868.	2.4	30
65	A New Approach to Stochastically Generating Six-Monthly Rainfall Sequences Based on Empirical Mode Decomposition. Journal of Hydrometeorology, 2008, 9, 1377-1389.	1.9	28
66	Empirical mode decomposition using rational splines: an application to rainfall time series. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 1483-1501.	2.1	52
67	Global streamflows " Part 1: Characteristics of annual streamflows. Journal of Hydrology, 2007, 347, 243-259.	5.4	96
68	Global streamflows " Part 3: Country and climate zone characteristics. Journal of Hydrology, 2007, 347, 272-291.	5.4	35
69	Global streamflows " Part 2: Reservoir storage " yield performance. Journal of Hydrology, 2007, 347, 260-271.	5.4	49
70	Generalized extreme value distribution fitted by LH moments for low-flow frequency analysis. Water Resources Research, 2007, 43, .	4.2	22
71	Updated world map of the Köppen-Geiger climate classification. Hydrology and Earth System Sciences, 2007, 11, 1633-1644.	4.9	7,579
72	Revisiting reservoir storage " yield relationships using a global streamflow database. Advances in Water Resources, 2007, 30, 1858-1872.	3.8	71

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73	Review of Gouldâ€™Dincer reservoir storageâ€™yieldâ€™reliability estimates. <i>Advances in Water Resources</i> , 2007, 30, 1873-1882.	3.8	38
74	Recent frequency component changes in interannual climate variability. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	21
75	A quality-controlled global runoff data set. <i>Nature</i> , 2006, 444, E14-E14.	27.8	44
76	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.	3.5	26
77	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.	3.5	25
78	Continental differences in the variability of annual runoff-update and reassessment. <i>Journal of Hydrology</i> , 2004, 295, 185-197.	5.4	105
79	Variability of Annual Precipitation and Its Relationship to the El NiÃ±oâ€™Southern Oscillation. <i>Journal of Climate</i> , 2002, 15, 545-551.	3.2	38
80	Implications of the relationship between catchment vegetation type and the variability of annual runoff. <i>Hydrological Processes</i> , 2002, 16, 2995-3002.	2.6	31
81	Identification and explanation of continental differences in the variability of annual runoff. <i>Journal of Hydrology</i> , 2001, 250, 224-240.	5.4	95
82	The utility of L-moment ratio diagrams for selecting a regional probability distribution. <i>Hydrological Sciences Journal</i> , 2001, 46, 147-155.	2.6	96
83	Ensemble Empirical Mode Decomposition of Australian monthly rainfall and temperature data. , 0, , .		1
84	Ensemble Empirical Mode Decomposition of monthly climatic indices relevant to Australian hydroclimatology. , 0, , .		1