David Dunkerley

List of Publications by Year
in descending order

38 papers	1,377 citations	471371 17 h-index	377752 34 g-index
39 all docs	39 docs citations	39 times ranked	1361 citing authors

#	Article	IF	Citations
1	Identifying individual rain events from pluviograph records: a review with analysis of data from an Australian dryland site. Hydrological Processes, 2008, 22, 5024-5036.	1.1	185
2	Rain event properties in nature and in rainfall simulation experiments: a comparative review with recommendations for increasingly systematic study and reporting. Hydrological Processes, 2008, 22, 4415-4435.	1.1	161
3	Measuring interception loss and canopy storage in dryland vegetation: a brief review and evaluation of available research strategies. Hydrological Processes, 2000, 14, 669-678.	1.1	147
4	Effects of rainfall intensity fluctuations on infiltration and runoff: rainfall simulation on dryland soils, Fowlers Gap, Australia. Hydrological Processes, 2012, 26, 2211-2224.	1.1	120
5	Hydrologic effects of dryland shrubs: defining the spatial extent of modified soil water uptake rates at an Australian desert site. Journal of Arid Environments, 2000, 45, 159-172.	1.2	80
6	Estimating the mean speed of laminar overland flow using dye injection-uncertainty on rough surfaces. Earth Surface Processes and Landforms, 2001, 26, 363-374.	1.2	77
7	Flow behaviour, suspended sediment transport and transmission losses in a small (sub-bank-full) flow event in an Australian desert stream. Hydrological Processes, 1999, 13, 1577-1588.	1.1	68
8	Intraâ€event intermittency of rainfall: an analysis of the metrics of rain and noâ€rain periods. Hydrological Processes, 2015, 29, 3294-3305.	1.1	50
9	Percolation through leaf litter: What happens during rainfall events of varying intensity?. Journal of Hydrology, 2015, 525, 737-746.	2.3	49
10	Stemflow on the woody parts of plants: dependence on rainfall intensity and event profile from laboratory simulations. Hydrological Processes, 2014, 28, 5469-5482.	1.1	44
11	Systematic variation of soil infiltration rates within and between the components of the vegetation mosaic in an Australian desert landscape. Hydrological Processes, 2002, 16, 119-131.	1.1	33
12	Flow threads in surface run-off: implications for the assessment of flow properties and friction coefficients in soil erosion and hydraulics investigations. Earth Surface Processes and Landforms, 2004, 29, 1011-1026.	1.2	31
13	Stemflow production and intrastorm rainfall intensity variation: an experimental analysis using laboratory rainfall simulation. Earth Surface Processes and Landforms, 2014, 39, 1741-1752.	1.2	29
14	How is overland flow produced under intermittent rain? An analysis using plot-scale rainfall simulation on dryland soils. Journal of Hydrology, 2018, 556, 119-130.	2.3	29
15	Nature and hydro-geomorphic roles of trees and woody debris in a dryland ephemeral stream: Fowlers Creek, arid western New South Wales, Australia. Journal of Arid Environments, 2014, 102, 40-49.	1.2	26
16	An approach to analysing plot scale infiltration and runoff responses to rainfall of fluctuating intensity. Hydrological Processes, 2017, 31, 191-206.	1.1	25
17	The importance of incorporating rain intensity profiles in rainfall simulation studies of infiltration, runoff production, soil erosion, and related landsurface processes. Journal of Hydrology, 2021, 603, 126834.	2.3	18
18	How does subâ€hourly rainfall intermittency bias the climatology of hourly and daily rainfalls? Examples from arid and wet tropical Australia. International Journal of Climatology, 2019, 39, 2412-2421.	1.5	17

#	Article	IF	Citations
19	A Review of the Effects of Throughfall and Stemflow on Soil Properties and Soil Erosion. , 2020, , 183-214.		17
20	Flow chutes in Fowlers Creek, arid western New South Wales, Australia: Evidence for diversity in the influence of trees on ephemeral channel form and process. Geomorphology, 2008, 102, 232-241.	1.1	16
21	Sub-daily rainfall events in an arid environment with marked climate variability: Variation among wet and dry years at Fowlers Gap, New South Wales, Australia. Journal of Arid Environments, 2013, 96, 23-30.	1.2	15
22	The case for increased validation of rainfall simulation as a tool for researching runoff, soil erosion, and related processes. Catena, 2021, 202, 105283.	2.2	15
23	Acquiring unbiased rainfall duration and intensity data from tipping-bucket rain gauges: A new approach using synchronised acoustic recordings. Atmospheric Research, 2020, 244, 105055.	1.8	15
24	Quantifying the effects of rainfall intensity fluctuation on runoff and soil loss: From indicators to models. Journal of Hydrology, 2022, 607, 127494.	2.3	15
25	Organic litter: dominance over stones as a source of interrill flow roughness on low-gradient desert slopes at Fowlers Gap, arid western NSW, Australia. Earth Surface Processes and Landforms, 2003, 28, 15-29.	1.2	14
26	What does I30 tell us? An assessment using high-resolution rainfall event data from two Australian locations. Catena, 2019, 180, 320-332.	2.2	13
27	Rainfall intensity in geomorphology: Challenges and opportunities. Progress in Physical Geography, 2021, 45, 488-513.	1.4	12
28	How Is the Intensity of Rainfall Events Best Characterised? A Brief Critical Review and Proposed New Rainfall Intensity Index for Application in the Study of Landsurface Processes. Water (Switzerland), 2020, 12, 929.	1.2	9
29	Sub-Daily Rainfall Intensity Extremes: Evaluating Suitable Indices at Australian Arid and Wet Tropical Observing Sites. Water (Switzerland), 2019, 11, 2616.	1.2	9
30	Surface tension and friction coefficients in shallow, laminar overland flows through organic litter. Earth Surface Processes and Landforms, 2002, 27, 45-58.	1.2	8
31	Volumetric displacement of flow depth by obstacles, and the determination of friction factors in shallow overland flows. Earth Surface Processes and Landforms, 2002, 27, 165-175.	1.2	8
32	Intermittency of rainfall at sub-daily timescales: New quantitative indices based on the number, duration, and sequencing of interruptions to rainfall. Atmospheric Research, 2021, 253, 105475.	1.8	6
33	Rainfall drop arrival rate at the ground: A potentially informative parameter in the experimental study of infiltration, soil erosion, and related land surface processes. Catena, 2021, 206, 105552.	2.2	6
34	Rainfall intensity in short events: Evaluating the â€œI30 is equal to twice the rainfall depthâ€•approach advised for use with the Universal Soil Loss Equation by Wischmeier & Smith (1978). Catena, 2021, 207, 105659.	2.2	4
35	Regional Rainfall Regimes Affect the Sensitivity of the Huff Quartile Classification to the Method of Event Delineation. Water (Switzerland), 2022, 14, 1047.	1.2	3
36	The Ecohydrology of Desert Environments: What Makes it Distinctive?. , 2020, , 23-35.		2

#	Article	IF	Citations
37	Acoustic methods in physical geography: Applications and future development. Progress in Physical Geography, 0, , 030913332211114.	1.4	1
38	Huff quartile classification of rainfall intensity profiles ('storm patterns'): A modified approach employing an intensity threshold. Catena, 2022, 216, 106371.	2.2	0