

# Gary J Sheridan

## List of Publications by Year in descending order

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66  
papers

2,799  
citations

186254

28  
h-index

182417

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wildfire effects on water quality in forest catchments: A review with implications for water supply. <i>Journal of Hydrology</i> , 2011, 396, 170-192.	5.4	515
2	Evidence of debris flow occurrence after wildfire in upland catchments of south-east Australia. <i>Geomorphology</i> , 2011, 125, 383-401.	2.6	159
3	Changes in sediment loads and discharge from small mountain catchments following wildfire in south eastern Australia. <i>Journal of Hydrology</i> , 2006, 331, 495-510.	5.4	143
4	Quantification of hillslope runoff and erosion processes before and after wildfire in a wet Eucalyptus forest. <i>Journal of Hydrology</i> , 2007, 343, 12-28.	5.4	121
5	Synergistic effects of water repellency and macropore flow on the hydraulic conductivity of a burned forest soil, south-east Australia. <i>Hydrological Processes</i> , 2010, 24, 2871-2887.	2.6	94
6	Impact of an unsealed forest road stream crossing: water quality and sediment sources. <i>Hydrological Processes</i> , 2002, 16, 2599-2612.	2.6	89
7	Surface runoff and erosion after prescribed burning and the effect of different fire regimes in forests and shrublands: a review. <i>International Journal of Wildland Fire</i> , 2012, 21, 857.	2.4	76
8	Phosphorus and nitrogen exports from SE Australian forests following wildfire. <i>Journal of Hydrology</i> , 2008, 361, 186-198.	5.4	74
9	Modeling the effects of surface storage, macropore flow and water repellency on infiltration after wildfire. <i>Journal of Hydrology</i> , 2014, 513, 301-313.	5.4	67
10	Changes to sediment sources following wildfire in a forested upland catchment, southeastern Australia. <i>Hydrological Processes</i> , 2011, 25, 2878-2889.	2.6	61
11	Assessing water contamination risk from vegetation fires: Challenges, opportunities and a framework for progress. <i>Hydrological Processes</i> , 2018, 32, 687-694.	2.6	60
12	Predicting sediment delivery from debris flows after wildfire. <i>Geomorphology</i> , 2015, 250, 173-186.	2.6	58
13	Quantifying the effects of topographic aspect on water content and temperature in fine surface fuel. <i>International Journal of Wildland Fire</i> , 2015, 24, 1129.	2.4	53
14	How soil temperatures during prescribed burning affect soil water repellency, infiltration and erosion. <i>Geoderma</i> , 2016, 278, 12-22.	5.1	52
15	Carbon loads, forms and sequestration potential within ash deposits produced by wildfire: new insights from the 2009 'Black Saturday'™ fires, Australia. <i>European Journal of Forest Research</i> , 2012, 131, 1245-1253.	2.5	51
16	Scientists' warning on extreme wildfire risks to water supply. <i>Hydrological Processes</i> , 2021, 35, e14086.	2.6	51
17	Use of laboratory-scale rill and interrill erodibility measurements for the prediction of hillslope-scale erosion on rehabilitated coal mine soils and overburdens. <i>Soil Research</i> , 2000, 38, 285.	1.1	47
18	Wildfire and salvage harvesting effects on runoff generation and sediment exports from radiata pine and eucalypt forest catchments, south-eastern Australia. <i>Forest Ecology and Management</i> , 2011, 261, 570-581.	3.2	46

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19	Quantifying sources of fine sediment supplied to post-fire debris flows using fallout radionuclide tracers. <i>Geomorphology</i> , 2012, 139-140, 403-415.	2.6	46
20	The effect of truck traffic and road water content on sediment delivery from unpaved forest roads. <i>Hydrological Processes</i> , 2006, 20, 1683-1699.	2.6	43
21	A quantitative study of sediment delivery and stream pollution from different forest road types. <i>Hydrological Processes</i> , 2007, 21, 387-398.	2.6	43
22	Using rainfall simulation and site measurements to predict annual interrill erodibility and phosphorus generation rates from unsealed forest roads: Validation against in-situ erosion measurements. <i>Catena</i> , 2008, 73, 49-62.	5.0	40
23	Estimation of erosion model erodibility parameters from media properties. <i>Soil Research</i> , 2000, 38, 265.	1.1	39
24	Sediment availability on burned hillslopes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2451-2467.	2.8	39
25	Effects of aridity in controlling the magnitude of runoff and erosion after wildfire. <i>Water Resources Research</i> , 2016, 52, 4338-4357.	4.2	36
26	A model for assessing water quality risk in catchments prone to wildfire. <i>Journal of Hydrology</i> , 2016, 534, 407-426.	5.4	35
27	Eco-hydrological controls on microclimate and surface fuel evaporation in complex terrain. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 49-61.	4.8	34
28	Stream exports of coarse matter and phosphorus following wildfire in NE Victoria, Australia. <i>Hydrological Processes</i> , 2010, 24, 1514-1529.	2.6	29
29	Hydro-geomorphic response models for burned areas and their applications in land management. <i>Progress in Physical Geography</i> , 2013, 37, 787-812.	3.2	28
30	Hillslope-scale prediction of terrain and forest canopy effects on temperature and near-surface soil moisture deficit. <i>International Journal of Wildland Fire</i> , 2017, 26, 191.	2.4	27
31	Exploring the key drivers of forest flammability in wet eucalypt forests using expert-derived conceptual models. <i>Landscape Ecology</i> , 2020, 35, 1775-1798.	4.2	27
32	The effect of organic mulch amendments on the physical and chemical properties and revegetation success of a saline-sodic minespoil from central Queensland, Australia. <i>Soil Research</i> , 2006, 44, 97.	1.1	27
33	Is aridity a high-order control on the hydro-geomorphic response of burned landscapes?. <i>International Journal of Wildland Fire</i> , 2016, 25, 262.	2.4	25
34	Post-fire changes in sediment rating curves in a wet Eucalyptus forest in SE Australia. <i>Journal of Hydrology</i> , 2011, 409, 183-195.	5.4	21
35	Modelling the effects of fire and rainfall regimes on extreme erosion events in forested landscapes. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 2015-2025.	4.0	21
36	Shifting States, Altered Fates: Divergent Fuel Moisture Responses after High Frequency Wildfire in an Obligate Seeder Eucalypt Forest. <i>Forests</i> , 2019, 10, 436.	2.1	21

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37	Debris-flow-dominated sediment transport through a channel network after wildfire. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1155-1167.	2.5	21
38	Post-fire hillslope debris flows: Evidence of a distinct erosion process. <i>Geomorphology</i> , 2017, 295, 55-75.	2.6	20
39	Spatio-temporal transpiration patterns reflect vegetation structure in complex upland terrain. <i>Science of the Total Environment</i> , 2019, 694, 133551.	8.0	20
40	Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. <i>International Journal of Wildland Fire</i> , 2020, 29, 548.	2.4	20
41	Impacts of wildfire and salvage harvesting on water quality and nutrient exports from radiata pine and eucalypt forest catchments in south-eastern Australia. <i>Forest Ecology and Management</i> , 2012, 263, 160-169.	3.2	19
42	Catchment-scale contribution of forest roads to stream exports of sediment, phosphorus and nitrogen. <i>Hydrological Processes</i> , 2007, 21, 3107-3122.	2.6	18
43	Scale-dependency of effective hydraulic conductivity on fire-affected hillslopes. <i>Water Resources Research</i> , 2016, 52, 5041-5055.	4.2	18
44	Phosphorus enrichment from point to catchment scale following fire in eucalypt forests. <i>Catena</i> , 2011, 87, 157-162.	5.0	17
45	Evaluating models of shortwave radiation below Eucalyptus canopies in SE Australia. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 51-63.	4.8	17
46	An improved Victorian erosivity map. <i>Soil Research</i> , 2003, 41, 141.	1.1	16
47	Quantifying relations between surface runoff and aridity after wildfire. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2033-2044.	2.5	16
48	Designing tools to predict and mitigate impacts on water quality following the Australian 2019/2020 wildfires: Insights from Sydney's largest water supply catchment. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 1151-1161.	2.9	16
49	A comparison of rubber-tyred and steel-tracked skidders on forest soil physical properties. <i>Soil Research</i> , 2003, 41, 1063.	1.1	15
50	Debris flows in southeast Australia linked to drought, wildfire, and the El Niño-Southern Oscillation. <i>Geology</i> , 2019, 47, 491-494.	4.4	15
51	The influence of soil moisture on surface and sub-surface litter fuel moisture simulation at five Australian sites. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108282.	4.8	15
52	Estimating catchment-scale impacts of wildfire on sediment and nutrient loads using the E2 catchment modelling framework. <i>Environmental Modelling and Software</i> , 2011, 26, 913-928.	4.5	14
53	Conditional Performance Evaluation: Using Wildfire Observations for Systematic Fire Simulator Development. <i>Forests</i> , 2018, 9, 189.	2.1	14
54	Paired Eucalyptus forest catchment study of prescribed fire effects on suspended sediment and nutrient exports in south-eastern Australia. <i>International Journal of Wildland Fire</i> , 2010, 19, 624.	2.4	14

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55	Climate Dictates Magnitude of Asymmetry in Soil Depth and Hillslope Gradient. <i>Geophysical Research Letters</i> , 2018, 45, 6514-6522.	4.0	12
56	Probability and Consequence of Postfire Erosion for Treatability of Water in an Unfiltered Supply System. <i>Water Resources Research</i> , 2021, 57, .	4.2	10
57	Forest Structure Drives Fuel Moisture Response across Alternative Forest States. <i>Fire</i> , 2021, 4, 48.	2.8	10
58	2019â€“2020 Bushfire impacts on sediment and contaminant transport following rainfall in the Upper Murray River catchment. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 1203-1214.	2.9	10
59	A simple twoâ€“parameter model for scaling hillslope surface runoff. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1049-1061.	2.5	9
60	The sensitivity of fuel moisture to forest structure effects on microclimate. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108857.	4.8	9
61	Change in fire frequency drives a shift in species composition in native <i>Eucalyptus regnans</i> forests: Implications for overstorey forest structure and transpiration. <i>Ecohydrology</i> , 2022, 15, .	2.4	9
62	Improved slope adjustment functions for soil erosion prediction. <i>Soil Research</i> , 2003, 41, 1489.	1.1	8
63	The Role of Fire in the Coevolution of Soils and Temperate Forests. <i>Water Resources Research</i> , 2020, 56, e2019WR026005.	4.2	8
64	Corrigendum to: Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. <i>International Journal of Wildland Fire</i> , 2020, 29, 560.	2.4	5
65	Modeling Vegetation Water Stress over the Forest from Space: Temperature Vegetation Water Stress Index (TVWSI). <i>Remote Sensing</i> , 2021, 13, 4635.	4.0	4
66	How long is the memory of forest growth to rainfall in asynchronous climates?. <i>Ecological Indicators</i> , 2022, 140, 109057.	6.3	2