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	The sensitivity of fuel moisture to forest structure effects on microclimate. Agricultural and Forest Meteorology, 2022, 316, 108857.	4.8	9
2	Change in fire frequency drives a shift in species composition in native <scp>Eucalyptus regnans</scp> forests: Implications for overstorey forest structure and transpiration. Ecohydrology, 2022, 15, .	2.4	9
3	How long is the memory of forest growth to rainfall in asynchronous climates?. Ecological Indicators, 2022, 140, 109057.	6.3	2
4	Probability and Consequence of Postfire Erosion for Treatability of Water in an Unfiltered Supply System. Water Resources Research, 2021, 57, .	4.2	10
5	The influence of soil moisture on surface and sub-surface litter fuel moisture simulation at five Australian sites. Agricultural and Forest Meteorology, 2021, 298-299, 108282.	4.8	15
6	Scientists' warning on extreme wildfire risks to water supply. Hydrological Processes, 2021, 35, e14086.	2.6	51
7	Designing tools to predict and mitigate impacts on water quality following the Australian 2019/2020 wildfires: Insights from Sydney's largest water supply catchment. Integrated Environmental Assessment and Management, 2021, 17, 1151-1161.	2.9	16
8	Forest Structure Drives Fuel Moisture Response across Alternative Forest States. Fire, 2021, 4, 48.	2.8	10
9	2019â€“2020 Bushfire impacts on sediment and contaminant transport following rainfall in the Upper Murray River catchment. Integrated Environmental Assessment and Management, 2021, 17, 1203-1214.	2.9	10
10	Modeling Vegetation Water Stress over the Forest from Space: Temperature Vegetation Water Stress Index (TVWSI). Remote Sensing, 2021, 13, 4635.	4.0	4
11	Corrigendum to: Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. International Journal of Wildland Fire, 2020, 29, 560.	2.4	5
12	The Role of Fire in the Coevolution of Soils and Temperate Forests. Water Resources Research, 2020, 56, e2019WR026005.	4.2	8
13	Exploring the key drivers of forest flammability in wet eucalypt forests using expert-derived conceptual models. Landscape Ecology, 2020, 35, 1775-1798.	4.2	27
14	Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. International Journal of Wildland Fire, 2020, 29, 548.	2.4	20
15	Debrisâ€flowâ€dominated sediment transport through a channel network after wildfire. Earth Surface Processes and Landforms, 2020, 45, 1155-1167.	2.5	21
16	Spatio-temporal transpiration patterns reflect vegetation structure in complex upland terrain. Science of the Total Environment, 2019, 694, 133551.	8.0	20
17	Shifting States, Altered Fates: Divergent Fuel Moisture Responses after High Frequency Wildfire in an Obligate Seeder Eucalypt Forest. Forests, 2019, 10, 436.	2.1	21
18	Debris flows in southeast Australia linked to drought, wildfire, and the El NiÃ±oâ€“Southern Oscillation. Geology, 2019, 47, 491-494.	4.4	15

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19	Eco-hydrological controls on microclimate and surface fuel evaporation in complex terrain. Agricultural and Forest Meteorology, 2018, 252, 49-61.	4.8	34
20	Quantifying relations between surface runoff and aridity after wildfire. Earth Surface Processes and Landforms, 2018, 43, 2033-2044.	2.5	16
21	Assessing water contamination risk from vegetation fires: Challenges, opportunities and a framework for progress. Hydrological Processes, 2018, 32, 687-694.	2.6	60
22	Climate Dictates Magnitude of Asymmetry in Soil Depth and Hillslope Gradient. Geophysical Research Letters, 2018, 45, 6514-6522.	4.0	12
23	Conditional Performance Evaluation: Using Wildfire Observations for Systematic Fire Simulator Development. Forests, 2018, 9, 189.	2.1	14
24	Hillslope-scale prediction of terrain and forest canopy effects on temperature and near-surface soil moisture deficit. International Journal of Wildland Fire, 2017, 26, 191.	2.4	27
25	Post-fire hillslope debris flows: Evidence of a distinct erosion process. Geomorphology, 2017, 295, 55-75.	2.6	20
26	Evaluating models of shortwave radiation below Eucalyptus canopies in SE Australia. Agricultural and Forest Meteorology, 2017, 246, 51-63.	4.8	17
27	Effects of aridity in controlling the magnitude of runoff and erosion after wildfire. Water Resources Research, 2016, 52, 4338-4357.	4.2	36
28	Scaleâ€dependency of effective hydraulic conductivity on fireâ€affected hillslopes. Water Resources Research, 2016, 52, 5041-5055.	4.2	18
29	How soil temperatures during prescribed burning affect soil water repellency, infiltration and erosion. Geoderma, 2016, 278, 12-22.	5.1	52
30	A model for assessing water quality risk in catchments prone to wildfire. Journal of Hydrology, 2016, 534, 407-426.	5.4	35
31	Is aridity a high-order control on the hydroâ€“geomorphic response of burned landscapes?. International Journal of Wildland Fire, 2016, 25, 262.	2.4	25
32	Quantifying the effects of topographic aspect on water content and temperature in fine surface fuel. International Journal of Wildland Fire, 2015, 24, 1129.	2.4	53
33	Predicting sediment delivery from debris flows after wildfire. Geomorphology, 2015, 250, 173-186.	2.6	58
34	Modeling the effects of surface storage, macropore flow and water repellency on infiltration after wildfire. Journal of Hydrology, 2014, 513, 301-313.	5.4	67
35	A simple twoâ€parameter model for scaling hillslope surface runoff. Earth Surface Processes and Landforms, 2014, 39, 1049-1061.	2.5	9
36	Modelling the effects of fire and rainfall regimes on extreme erosion events in forested landscapes. Stochastic Environmental Research and Risk Assessment, 2014, 28, 2015-2025.	4.0	21

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37	Hydro-geomorphic response models for burned areas and their applications in land management. Progress in Physical Geography, 2013, 37, 787-812.	3.2	28
38	Sediment availability on burned hillslopes. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2451-2467.	2.8	39
39	Surface runoff and erosion after prescribed burning and the effect of different fire regimes in forests and shrublands: a review. International Journal of Wildland Fire, 2012, 21, 857.	2.4	76
40	Impacts of wildfire and salvage harvesting on water quality and nutrient exports from radiata pine and eucalypt forest catchments in south-eastern Australia. Forest Ecology and Management, 2012, 263, 160-169.	3.2	19
41	Quantifying sources of fine sediment supplied to post-fire debris flows using fallout radionuclide tracers. Geomorphology, 2012, 139-140, 403-415.	2.6	46
42	Carbon loads, forms and sequestration potential within ash deposits produced by wildfire: new insights from the 2009 â€˜Black Saturdayâ€™ fires, Australia. European Journal of Forest Research, 2012, 131, 1245-1253.	2.5	51
43	Phosphorus enrichment from point to catchment scale following fire in eucalypt forests. Catena, 2011, 87, 157-162.	5.0	17
44	Wildfire and salvage harvesting effects on runoff generation and sediment exports from radiata pine and eucalypt forest catchments, south-eastern Australia. Forest Ecology and Management, 2011, 261, 570-581.	3.2	46
45	Evidence of debris flow occurrence after wildfire in upland catchments of south-east Australia. Geomorphology, 2011, 125, 383-401.	2.6	159
46	Wildfire effects on water quality in forest catchments: A review with implications for water supply. Journal of Hydrology, 2011, 396, 170-192.	5.4	515
47	Post-fire changes in sediment rating curves in a wet Eucalyptus forest in SE Australia. Journal of Hydrology, 2011, 409, 183-195.	5.4	21
48	Changes to sediment sources following wildfire in a forested upland catchment, southeastern Australia. Hydrological Processes, 2011, 25, 2878-2889.	2.6	61
49	Estimating catchment-scale impacts of wildfire on sediment and nutrient loads using the E2 catchment modelling framework. Environmental Modelling and Software, 2011, 26, 913-928.	4.5	14
50	Stream exports of coarse matter and phosphorus following wildfire in NE Victoria, Australia. Hydrological Processes, 2010, 24, 1514-1529.	2.6	29
51	Synergistic effects of water repellency and macropore flow on the hydraulic conductivity of a burned forest soil, southâ€east Australia. Hydrological Processes, 2010, 24, 2871-2887.	2.6	94
52	Paired Eucalyptus forest catchment study of prescribed fire effects on suspended sediment and nutrient exports in south-eastern Australia. International Journal of Wildland Fire, 2010, 19, 624.	2.4	14
53	Phosphorus and nitrogen exports from SE Australian forests following wildfire. Journal of Hydrology, 2008, 361, 186-198.	5.4	74
54	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. Catena, 2008, 73, 49-62.	5.0	40

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55	Quantification of hillslope runoff and erosion processes before and after wildfire in a wet Eucalyptus forest. Journal of Hydrology, 2007, 343, 12-28.	5.4	121
56	A quantitative study of sediment delivery and stream pollution from different forest road types. Hydrological Processes, 2007, 21, 387-398.	2.6	43
57	Catchment-scale contribution of forest roads to stream exports of sediment, phosphorus and nitrogen. Hydrological Processes, 2007, 21, 3107-3122.	2.6	18
58	Changes in sediment loads and discharge from small mountain catchments following wildfire in south eastern Australia. Journal of Hydrology, 2006, 331, 495-510.	5.4	143
59	The effect of truck traffic and road water content on sediment delivery from unpaved forest roads. Hydrological Processes, 2006, 20, 1683-1699.	2.6	43
60	The effect of organic mulch amendments on the physical and chemical properties and revegetation success of a saline-sodic minespoil from central Queensland, Australia. Soil Research, 2006, 44, 97.	1.1	27
61	An improved Victorian erosivity map. Soil Research, 2003, 41, 141.	1.1	16
62	A comparison of rubber-tyred and steel-tracked skidders on forest soil physical properties. Soil Research, 2003, 41, 1063.	1.1	15
63	Improved slope adjustment functions for soil erosion prediction. Soil Research, 2003, 41, 1489.	1.1	8
64	Impact of an unsealed forest road stream crossing: water quality and sediment sources. Hydrological Processes, 2002, 16, 2599-2612.	2.6	89
65	Estimation of erosion model erodibility parameters from media properties. Soil Research, 2000, 38, 265.	1.1	39
66	Use of laboratory-scale rill and interill erodibility measurements for the prediction of hillslope-scale erosion on rehabilitated coal mine soils and overburdens. Soil Research, 2000, 38, 285.	1.1	47