Geoffrey J Cary

List of Publications by Year in Descending Order

66 papers	3,071 citations	27 h-index	55 g-index
69 ext. papers	3,556 ext. citations	4.4 avg, IF	4.98 L-index

#	Paper	IF	Citations
66	Controlled field experiment clarifies the influence of soil moisture on litter moisture content. *Agricultural and Forest Meteorology*, **2022**, 314, 108782	5.8	1
65	What determines variation in remotely sensed fire severity? Consideration of remote sensing limitations and confounding factors. *International Journal of Wildland Fire*, **2022**, 31, 291-305	3.2	2
64	Post-fire pickings: Large herbivores alter understory vegetation communities in a coastal eucalypt forest.. *Ecology and Evolution*, **2022**, 12, e8828	2.8	0
63	Comparison of contrasting optical and LiDAR fire severity remote sensing methods in a heterogeneous forested landscape in south-eastern Australia. *International Journal of Remote Sensing*, **2022**, 43, 2559-2580	3.1	0
62	Unburnt habitat patches are critical for survival and in situ population recovery in a small mammal after fire. *Journal of Applied Ecology*, **2021**, 58, 1325-1335	5.8	6
61	Forest fire fuel through the lens of remote sensing: Review of approaches, challenges and future directions in the remote sensing of biotic determinants of fire behaviour. *Remote Sensing of Environment*, **2021**, 255, 112282	13.2	18
60	Stand boundary effects on obligate seeding Eucalyptus delegatensis regeneration and fuel dynamics following high and low severity fire: Implications for species resilience to recurrent fire. *Austral Ecology*, **2021**, 46, 802-817	1.5	1
59	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	5.8	3
58	Application of Landsat ETM+ and OLI Data for Foliage Fuel Load Monitoring Using Radiative Transfer Model and Machine Learning Method. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 5100-5110	4.7	5
57	Effects of altered fire intervals on critical timber production and conservation values. *International Journal of Wildland Fire*, **2021**, 30, 322	3.2	6
56	Animals as Agents in Fire Regimes. *Trends in Ecology and Evolution*, **2020**, 35, 346-356	10.9	14
55	The Proximal Drivers of Large Fires: A Pyrogeographic Study. *Frontiers in Earth Science*, **2020**, 8,	3.5	14
54	Exploring the key drivers of forest flammability in wet eucalypt forests using expert-derived conceptual models. *Landscape Ecology*, **2020**, 35, 1775-1798	4.3	13
53	More long-unburnt forest will benefit mammals in Australian sub-alpine forests and woodlands. *Austral Ecology*, **2019**, 44, 1150-1162	1.5	5
52	Features associated with effective biodiversity monitoring and evaluation. *Biological Conservation*, **2019**, 238, 108221	6.2	6
51	Options for reducing house-losses during wildfires without clearing trees and shrubs. *Landscape and Urban Planning*, **2018**, 174, 10-17	7.7	16
50	A comparison of fuel hazard in recently burned and long-unburned forests and woodlands. *International Journal of Wildland Fire*, **2018**, 27, 609	3.2	14

49	The disproportionate importance of long-unburned forests and woodlands for reptiles. *Ecology and Evolution*, **2018**, 8, 10952-10963	2.8	8
48	Relationships between mature trees and fire fuel hazard in Australian forest. *International Journal of Wildland Fire*, **2018**, 27, 353	3.2	5
47	A fuel moisture content and flammability monitoring methodology for continental Australia based on optical remote sensing. *Remote Sensing of Environment*, **2018**, 212, 260-272	13.2	54
46	Using alternative soil moisture estimates in the McArthur Forest Fire Danger Index. *International Journal of Wildland Fire*, **2017**, 26, 806	3.2	10
45	When can refuges mediate the genetic effects of fire regimes? A simulation study of the effects of topography and weather on neutral and adaptive genetic diversity in fire-prone landscapes. *Molecular Ecology*, **2017**, 26, 4935-4954	5.7	7
44	You own the fuel, but who owns the fire?. *International Journal of Wildland Fire*, **2017**, 26, 999	3.2	9
43	Importance of fuel treatment for limiting moderate-to-high intensity fire: findings from comparative fire modelling. *Landscape Ecology*, **2017**, 32, 1473-1483	4.3	19
42	Seed viability of early maturing alpine ash (Eucalyptus delegatensis subsp. delegatensis) in the Australian Alps, south-eastern Australia, and its implications for management under changing fire regimes. *Australian Journal of Botany*, **2017**, 65, 517	1.2	13
41	Natural hazards in Australia: extreme bushfire. *Climatic Change*, **2016**, 139, 85-99	4.5	105
40	Future changes in climatic water balance determine potential for transformational shifts in Australian fire regimes. *Environmental Research Letters*, **2016**, 11, 065002	6.2	34
39	Biophysical Mechanistic Modelling Quantifies the Effects of Plant Traits on Fire Severity: Species, Not Surface Fuel Loads, Determine Flame Dimensions in Eucalypt Forests. *PLoS ONE*, **2016**, 11, e0160715	3.7	67
38	Repeatability of free-burning fire experiments using heterogeneous forest fuel beds in a combustion wind tunnel. *International Journal of Wildland Fire*, **2016**, 25, 445	3.2	8
37	Implications of recurrent disturbance for genetic diversity. *Ecology and Evolution*, **2016**, 6, 1181-96	2.8	27
36	Long-distance spotting potential of bark strips of a ribbon gum (Eucalyptus viminalis). *International Journal of Wildland Fire*, **2015**, 24, 1109	3.2	15
35	Evaluating benefits and costs of wildland fires: critical review and future applications. *Environmental Hazards*, **2014**, 13, 114-132	4.2	28
34	Exploring the use of economic evaluation in Australian wildland fire management decision-making. *International Journal of Wildland Fire*, **2014**, 23, 555	3.2	5
33	Exploring the role of fire, succession, climate, and weather on landscape dynamics using comparative modeling. *Ecological Modelling*, **2013**, 266, 172-186	3	26
32	A conceptual framework for predicting temperate ecosystem sensitivity to human impacts on fire regimes. *Global Ecology and Biogeography*, **2013**, 22, 900-912	6.1	102

31	How does ecological disturbance influence genetic diversity?. *Trends in Ecology and Evolution*, **2013**, 28, 670-9	10.9	150
30	Fire regimes of Australia: a pyrogeographic model system. *Journal of Biogeography*, **2013**, 40, 1048-1058	4.1	158
29	Forest fire management, climate change, and the risk of catastrophic carbon losses. *Frontiers in Ecology and the Environment*, **2013**, 11, 66-67	5.5	88
28	The worldwide "wildfire" problem **2013**, 23, 438-54		144
27	Contrasting fire responses to climate and management: insights from two Australian ecosystems. *Global Change Biology*, **2013**, 19, 1223-35	11.4	35
26	Wildfires, fuel treatment and risk mitigation in Australian eucalypt forests: insights from landscape-scale simulation. *Journal of Environmental Management*, **2012**, 105, 66-75	7.9	92
25	Land management practices associated with house loss in wildfires. *PLoS ONE*, **2012**, 7, e29212	3.7	122
24	Relationship between leaf traits and fire-response strategies in shrub species of a mountainous region of south-eastern Australia. *Annals of Botany*, **2012**, 109, 197-208	4.1	9
23	Modelling the potential for prescribed burning to mitigate carbon emissions from wildfires in fire-prone forests of Australia. *International Journal of Wildland Fire*, **2012**, 21, 629	3.2	47
22	Implications of changing climate and atmospheric CO2 for grassland fire in south-east Australia: insights using the GRAZPLAN grassland simulation model. *International Journal of Wildland Fire*, **2012**, 21, 695	3.2	7
21	Prescribed burning: how can it work to conserve the things we value?. *International Journal of Wildland Fire*, **2011**, 20, 721	3.2	159
20	Fire and carbon dynamics under climate change in south-eastern Australia: insights from FullCAM and FIRESCAPE modelling. *International Journal of Wildland Fire*, **2011**, 20, 563	3.2	26
19	Challenges and Needs in Fire Management: A Landscape Simulation Modeling Perspective **2011**, 75-98		
18	Classifying the fire-response traits of plants: How reliable are species-level classifications?. *Austral Ecology*, **2010**, 35, 264-273	1.5	18
17	Resolving conflicts in fire management using decision theory: asset-protection versus biodiversity conservation. *Conservation Letters*, **2010**, 3, 215-223	6.9	63
16	The effect of fire on birds of mulga woodland in arid central Australia. *International Journal of Wildland Fire*, **2010**, 19, 949	3.2	14
15	Fire management for biodiversity conservation: Key research questions and our capacity to answer them. *Biological Conservation*, **2010**, 143, 1928-1939	6.2	304
14	Relative importance of fuel management, ignition management and weather for area burned: evidence from five landscape - fire - succession models. *International Journal of Wildland Fire*, **2009**, 18, 147	3.2	82

13	Influence of fire severity on the regeneration, recruitment and distribution of eucalypts in the Cotter River Catchment, Australian Capital Territory. *Austral Ecology*, **2008**, 33, 55-67	1.5	64
12	The relative importance of fine-scale fuel mosaics on reducing fire risk in south-west Tasmania, Australia. *International Journal of Wildland Fire*, **2008**, 17, 421	3.2	44
11	Understanding Global Fire Dynamics by Classifying and Comparing Spatial Models of Vegetation and Fire **2007**, 139-148		2
10	Simulation of prescribed burning strategies in south-west Tasmania, Australia: effects on unplanned fires, fire regimes, and ecological management values. *International Journal of Wildland Fire*, **2006**, 15, 527	3.2	42
9	Comparison of the Sensitivity of Landscape-fire-succession Models to Variation in Terrain, Fuel Pattern, Climate and Weather. *Landscape Ecology*, **2006**, 21, 121-137	4.3	136
8	Research priorities arising from the 2002–2003 bushfire season in south-eastern Australia. *Australian Forestry*, **2005**, 68, 104-111	2.1	6
7	A classification of landscape fire succession models: spatial simulations of fire and vegetation dynamics. *Ecological Modelling*, **2004**, 179, 3-27	3	198
6	Using simulation to map fire regimes: an evaluation of approaches, strategies, and limitations. *International Journal of Wildland Fire*, **2003**, 12, 309	3.2	40
5	Fire Regime Sensitivity to Global Climate Change: An Australian Perspective. *Advances in Global Change Research*, **2000**, 233-246	1.2	23
4	Conservation conflicts over burning bush in south-eastern Australia. *Biological Conservation*, **1996**, 76, 167-175	6.2	89
3	Effects of fire frequency on plant species composition of sandstone communities in the Sydney region: Inter-fire interval and time-since-fire. *Austral Ecology*, **1995**, 20, 239-247		146
2	Effects of fire frequency on plant species composition of sandstone communities in the Sydney region: Combinations of inter-fire intervals. *Austral Ecology*, **1995**, 20, 418-426		73
1	Robustness of demographic estimates in studies of plant responses to fire. *Austral Ecology*, **1994**, 19, 110-114	1.5	2