

Jeremy Russell-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

7,270
citations

61984

43
h-index

60623

81
g-index

122
all docs

122
docs citations

122
times ranked

5324
citing authors

#	ARTICLE	IF	CITATIONS
1	Savanna Vegetation-Fire-Climate Relationships Differ Among Continents. <i>Science</i> , 2014, 343, 548-552.	12.6	500
2	Fire management for biodiversity conservation: Key research questions and our capacity to answer them. <i>Biological Conservation</i> , 2010, 143, 1928-1939.	4.1	380
3	Value of long-term ecological studies. <i>Austral Ecology</i> , 2012, 37, 745-757.	1.5	326
4	Fire frequency and biodiversity conservation in Australian tropical savannas: implications from the Kapalga fire experiment. <i>Austral Ecology</i> , 2005, 30, 155-167.	1.5	313
5	Contemporary fire regimes of northern Australia, 1997 - 2001: change since Aboriginal occupancy, challenges for sustainable management. <i>International Journal of Wildland Fire</i> , 2003, 12, 283.	2.4	241
6	Bushfires 'down under': patterns and implications of contemporary Australian landscape burning. <i>International Journal of Wildland Fire</i> , 2007, 16, 361.	2.4	239
7	Fire regimes of Australia: a pyrogeographic model system. <i>Journal of Biogeography</i> , 2013, 40, 1048-1058.	3.0	215
8	A LANDSAT MSS-Derived Fire History of Kakadu National Park, Monsoonal Northern Australia, 1980-94: Seasonal Extent, Frequency and Patchiness. <i>Journal of Applied Ecology</i> , 1997, 34, 748.	4.0	202
9	RESPONSE OF EUCALYPTUS-DOMINATED SAVANNA TO FREQUENT FIRES: LESSONS FROM MUNMARLARY, 1973-1996. <i>Ecological Monographs</i> , 2003, 73, 349-375.	5.4	190
10	Managing fire regimes in north Australian savannas: applying Aboriginal approaches to contemporary global problems. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, e55.	4.0	183
11	How do small savanna trees avoid stem mortality by fire? The roles of stem diameter, height and bark thickness. <i>Ecosphere</i> , 2011, 2, art42.	2.2	174
12	Title is missing!. <i>Human Ecology</i> , 1997, 25, 159-195.	1.4	165
13	Improving estimates of savanna burning emissions for greenhouse accounting in northern Australia: limitations, challenges, applications. <i>International Journal of Wildland Fire</i> , 2009, 18, 1.	2.4	155
14	A synthesis of postfire recovery traits of woody plants in Australian ecosystems. <i>Science of the Total Environment</i> , 2015, 534, 31-42.	8.0	151
15	Classification, species richness, and environmental relations of monsoon rain forest in northern Australia. <i>Journal of Vegetation Science</i> , 1991, 2, 259-278.	2.2	147
16	Conservation of monsoon rainforest isolates in the Northern Territory, Australia. <i>Biological Conservation</i> , 1992, 59, 51-63.	4.1	132
17	Fire regimes, fire-sensitive vegetation and fire management of the sandstone Arnhem Plateau, monsoonal northern Australia. <i>Journal of Applied Ecology</i> , 1998, 35, 829-846.	4.0	127
18	Fire regimes and the conservation of sandstone heath in monsoonal northern Australia: frequency, interval, patchiness. <i>Biological Conservation</i> , 2002, 104, 91-106.	4.1	114

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19	Big fires and their ecological impacts in Australian savannas: size and frequency matters. <i>International Journal of Wildland Fire</i> , 2008, 17, 768.	2.4	111
20	Seasonality and fire severity in savanna landscapes of monsoonal northern Australia. <i>International Journal of Wildland Fire</i> , 2006, 15, 541.	2.4	107
21	Frequent fires reduce tree growth in northern Australian savannas: implications for tree demography and carbon sequestration. <i>Global Change Biology</i> , 2010, 16, 331-343.	9.5	107
22	Viewpoint: Assessing the carbon sequestration potential of mesic savannas in the Northern Territory, Australia: approaches, uncertainties and potential impacts of fire. <i>Functional Plant Biology</i> , 2004, 31, 415.	2.1	88
23	Fire in Australian savannas: from leaf to landscape. <i>Global Change Biology</i> , 2015, 21, 62-81.	9.5	88
24	Small mammals decline with increasing fire extent in northern Australia: evidence from long-term monitoring in Kakadu National Park. <i>International Journal of Wildland Fire</i> , 2015, 24, 712.	2.4	87
25	Contemporary landscape burning patterns in the far North Kimberley region of north-west Australia: human influences and environmental determinants. <i>Journal of Biogeography</i> , 2004, 31, 1317-1333.	3.0	79
26	A tale of two parks: contemporary fire regimes of Litchfield and Nitmiluk National Parks, monsoonal northern Australia. <i>International Journal of Wildland Fire</i> , 2001, 10, 79.	2.4	74
27	The influence of prescribed fire on the extent of wildfire in savanna landscapes of western Arnhem Land, Australia. <i>International Journal of Wildland Fire</i> , 2012, 21, 297.	2.4	71
28	Deriving Multiple Benefits from Carbon Market-Based Savanna Fire Management: An Australian Example. <i>PLoS ONE</i> , 2015, 10, e0143426.	2.5	71
29	Simplifying the savanna: the trajectory of fire-sensitive vegetation mosaics in northern Australia. <i>Journal of Biogeography</i> , 2012, 39, 1303-1317.	3.0	70
30	The legacy of colonial fire management policies on traditional livelihoods and ecological sustainability in savannas: Impacts, consequences, new directions. <i>Journal of Environmental Management</i> , 2019, 232, 600-606.	7.8	65
31	Allosyncarpia-dominated rain forest in monsoonal northern Australia. <i>Journal of Vegetation Science</i> , 1993, 4, 67-82.	2.2	60
32	Fire regimes and woody biomass dynamics in Australian savannas. <i>Journal of Biogeography</i> , 2014, 41, 133-144.	3.0	60
33	Rain forest invasion of eucalypt-dominated woodland savanna, Iron Range, north-eastern Australia: I. Successional processes. <i>Journal of Biogeography</i> , 2004, 31, 1293-1303.	3.0	58
34	Monitoring the impacts of fire regimes on vegetation in northern Australia: an example from Kakadu National Park. <i>International Journal of Wildland Fire</i> , 2003, 12, 427.	2.4	57
35	Modelling the potential for prescribed burning to mitigate carbon emissions from wildfires in fire-prone forests of Australia. <i>International Journal of Wildland Fire</i> , 2012, 21, 629.	2.4	57
36	Fine-scale patchiness of different fire intensities in sandstone heath vegetation in northern Australia. <i>International Journal of Wildland Fire</i> , 2003, 12, 227.	2.4	56

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37	Can savanna burning projects deliver measurable greenhouse emissions reductions and sustainable livelihood opportunities in fire-prone settings?. <i>Climatic Change</i> , 2017, 140, 47-61.	3.6	55
38	Australian Savanna Fire Regimes: Context, Scales, Patchiness. <i>Fire Ecology</i> , 2007, 3, 48-63.	3.0	52
39	Environmental and demographic correlates of tree recruitment and mortality in north Australian savannas. <i>Forest Ecology and Management</i> , 2009, 257, 66-74.	3.2	52
40	Rain forest invasion of eucalypt-dominated woodland savanna, Iron Range, north-eastern Australia: II. Rates of landscape change. <i>Journal of Biogeography</i> , 2004, 31, 1305-1316.	3.0	51
41	Patterns of landscape fire and predicted vegetation response in the North Kimberley region of Western Australia. <i>International Journal of Wildland Fire</i> , 2003, 12, 369.	2.4	50
42	Contemplating the future: Acting now on long-term monitoring to answer 2050's questions. <i>Austral Ecology</i> , 2015, 40, 213-224.	1.5	47
43	Distributional pattern of plant species endemic to the Northern Territory, Australia. <i>Australian Journal of Botany</i> , 2006, 54, 627.	0.6	46
44	Insights into the biodiversity and social benchmarking components of the Northern Australian fire management and carbon abatement programmes. <i>Ecological Management and Restoration</i> , 2012, 13, 51-57.	1.5	46
45	Fire severity in a northern Australian savanna landscape: the importance of time since previous fire. <i>International Journal of Wildland Fire</i> , 2010, 19, 46.	2.4	44
46	Ecological thresholds and the status of fire-sensitive vegetation in western Arnhem Land, northern Australia: implications for management. <i>International Journal of Wildland Fire</i> , 2009, 18, 127.	2.4	39
47	Transdisciplinary synthesis for ecosystem science, policy and management: The Australian experience. <i>Science of the Total Environment</i> , 2015, 534, 173-184.	8.0	39
48	Reliability of biomass burning estimates from savanna fires: Biomass burning in northern Australia during the 1999 Biomass Burning and Lightning Experiment B field campaign. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	37
49	The management of climate change through prescribed Savanna burning: Emerging contributions of indigenous people in Northern Australia. <i>Public Administration and Development</i> , 2008, 28, 374-385.	1.8	37
50	Fire heterogeneity in Kakadu National Park, 1980 - 2000. <i>Wildlife Research</i> , 2005, 32, 425.	1.4	35
51	Challenges for valuing ecosystem services from an Indigenous estate in northern Australia. <i>Ecosystem Services</i> , 2017, 25, 167-178.	5.4	35
52	Fire regimes and vegetation sensitivity analysis: an example from Bradshaw Station, monsoonal northern Australia. <i>International Journal of Wildland Fire</i> , 2003, 12, 349.	2.4	34
53	Moving beyond evidence-free environmental policy. <i>Frontiers in Ecology and the Environment</i> , 2015, 13, 441-448.	4.0	34
54	A comparison and validation of satellite-derived fire severity mapping techniques in fire prone north Australian savannas: Extreme fires and tree stem mortality. <i>Remote Sensing of Environment</i> , 2018, 206, 287-299.	11.0	34

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55	Transforming fire management in northern Australia through successful implementation of savanna burning emissions reductions projects. <i>Journal of Environmental Management</i> , 2021, 290, 112568.	7.8	34
56	Recruitment dynamics of the long-lived obligate seeders <i>Callitris intratropica</i> (Cupressaceae) and <i>Petraeomyrtus punicea</i> (Myrtaceae). <i>Australian Journal of Botany</i> , 2006, 54, 479.	0.6	33
57	Spectral analysis of fire severity in north Australian tropical savannas. <i>Remote Sensing of Environment</i> , 2013, 136, 56-65.	11.0	33
58	Delivering effective savanna fire management for defined biodiversity conservation outcomes: an Arnhem Land case study. <i>International Journal of Wildland Fire</i> , 2020, 29, 386.	2.4	33
59	The Effect of Carbon Credits on Savanna Land Management and Priorities for Biodiversity Conservation. <i>PLoS ONE</i> , 2011, 6, e23843.	2.5	33
60	Plant Populations and Monsoon Rain Forest in the Northern Territory, Australia. <i>Biotropica</i> , 1992, 24, 471.	1.6	31
61	Are the eucalypt and non-eucalypt components of Australian tropical savannas independent?. <i>Oecologia</i> , 2011, 166, 229-239.	2.0	31
62	Managing the matrix: decadal responses of eucalypt-dominated savanna to ambient fire regimes. <i>Ecological Applications</i> , 2010, 20, 1615-1632.	3.8	30
63	An evaluation of contemporary savanna fire regimes in the Canastra National Park, Brazil: Outcomes of fire suppression policies. <i>Journal of Environmental Management</i> , 2018, 205, 40-49.	7.8	30
64	New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy – Part 2: Australian tropical savanna fires. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11335-11352.	4.9	29
65	Opportunities and challenges for savanna burning emissions abatement in southern Africa. <i>Journal of Environmental Management</i> , 2021, 288, 112414.	7.8	29
66	Efficacy of permanent firebreaks and aerial prescribed burning in western Arnhem Land, Northern Territory, Australia. <i>International Journal of Wildland Fire</i> , 2007, 16, 295.	2.4	29
67	A survey of medicinal plants in BaVi National Park, Vietnam: methodology and implications for conservation and sustainable use. <i>Biological Conservation</i> , 2001, 97, 295-304.	4.1	27
68	Rural Livelihoods and Burning Practices in Savanna Landscapes of Nusa Tenggara Timur, Eastern Indonesia. <i>Human Ecology</i> , 2007, 35, 345-359.	1.4	26
69	Emerging opportunities for developing a diversified land sector economy in Australia's northern savannas. <i>Rangeland Journal</i> , 2018, 40, 315.	0.9	26
70	Fire regimes and interval-sensitive vegetation in semiarid Gregory National Park, northern Australia. <i>Australian Journal of Botany</i> , 2010, 58, 300.	0.6	25
71	Prescribed burning protects endangered tropical heathlands of the Arnhem Plateau, northern Australia. <i>Journal of Applied Ecology</i> , 2015, 52, 980-991.	4.0	25
72	Contemporary fire regime risks to key ecological assets and processes in north Australian savannas. <i>International Journal of Wildland Fire</i> , 2015, 24, 857.	2.4	25

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73	Challenges for prescribed fire management in Australia's fire-prone rangelands – the example of the Northern Territory. <i>International Journal of Wildland Fire</i> , 2020, 29, 339.	2.4	25
74	Ecological Implications of Fine-Scale Fire Patchiness and Severity in Tropical Savannas of Northern Australia. <i>Fire Ecology</i> , 2015, 11, 10-31.	3.0	24
75	Assessing ecological performance thresholds in fire-prone Kakadu National Park, northern Australia. <i>Ecosphere</i> , 2017, 8, e01856.	2.2	24
76	Rapid inventory of wild medicinal plant populations in Sri Lanka. <i>Biological Conservation</i> , 2006, 132, 22-32.	4.1	23
77	Remote sensing of fire regimes in semi-arid Nusa Tenggara Timur, eastern Indonesia: current patterns, future prospects. <i>International Journal of Wildland Fire</i> , 2006, 15, 307.	2.4	23
78	Regeneration of monsoon rain forest in northern Australia: the dormant seed bank. <i>Journal of Vegetation Science</i> , 1994, 5, 161-168.	2.2	22
79	Spatially explicit benefit-cost analysis of fire management for greenhouse gas abatement. <i>Austral Ecology</i> , 2012, 37, 724-732.	1.5	22
80	Sensitivity of the MODIS fire detection algorithm (MOD14) in the savanna region of the Northern Territory, Australia. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 76, 11-16.	11.1	22
81	Environmental Relationships of Orange-footed Scrubfowl <i>Megapodius reinwardt</i> Nests in the Northern Territory. <i>Emu</i> , 1994, 94, 181-185.	0.6	21
82	Assessing the value of ecosystem services delivered by prescribed fire management in Australian tropical savannas. <i>Ecosystem Services</i> , 2021, 51, 101343.	5.4	20
83	Fire and carbon management in a diversified rangelands economy: research, policy and implementation challenges for northern Australia. <i>Rangeland Journal</i> , 2014, 36, 313.	0.9	20
84	Patterns of species composition and reserve design for a fragmented estate: Monsoon rainforests in the Northern Territory, Australia. <i>Biological Conservation</i> , 1995, 74, 9-19.	4.1	19
85	Fire persistence traits can be used to predict vegetation response to changing fire regimes at expansive landscape scales – an Australian example. <i>Journal of Biogeography</i> , 2012, 39, 1657-1668.	3.0	19
86	Biodiversity responds to increasing climatic extremes in a biome-specific manner. <i>Science of the Total Environment</i> , 2018, 634, 382-393.	8.0	19
87	Adaptive prescribed burning in Australia for the early 21st Century – context, status, challenges. <i>International Journal of Wildland Fire</i> , 2020, 29, 305.	2.4	19
88	Monsoon rain forest seedling dynamics, northern Australia: contrasts with regeneration in eucalypt-dominated savannas. <i>Journal of Biogeography</i> , 2006, 33, 1597-1614.	3.0	18
89	Seasonal differences in fire activity and intensity in tropical savannas of northern Australia using satellite measurements of fire radiative power. <i>International Journal of Wildland Fire</i> , 2015, 24, 249.	2.4	18
90	Fire management business in Australia's tropical savannas: Lighting the way for a new ecosystem services model for the north?. <i>Ecological Management and Restoration</i> , 2016, 17, 4-7.	1.5	18

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91	Fire regimes and soil erosion in north Australian hilly savannas. <i>International Journal of Wildland Fire</i> , 2006, 15, 551.	2.4	17
92	Terrestrial vegetation. , 1996, , 57-79.		17
93	Fire patterns in north Australian savannas: extending the reach of incentives for savanna fire emissions abatement. <i>Rangeland Journal</i> , 2014, 36, 371.	0.9	17
94	Fire, landscape heterogeneity and wildlife management in Australia's tropical savannas: introduction and overview. <i>Wildlife Research</i> , 2005, 32, 369.	1.4	16
95	Ecological implications of standard fire-mapping approaches for fire management of the World Heritage Area, Fraser Island, Australia. <i>International Journal of Wildland Fire</i> , 2013, 22, 381.	2.4	16
96	Mainstreaming indigenous and local communities'™ connections with nature for policy decision-making. <i>Global Ecology and Conservation</i> , 2019, 19, e00668.	2.1	16
97	Fire and savanna landscapes in northern Australia: regional lessons and global challenges. <i>International Journal of Wildland Fire</i> , 2003, 12, v.	2.4	16
98	Perspectives on prescribed burning. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, e3.	4.0	13
99	Repurposing government expenditure for enhancing Indigenous well-being in Australia: A scenario analysis for a new paradigm. <i>Economic Analysis and Policy</i> , 2019, 63, 75-91.	6.6	13
100	Vegetation of the Wessel and English Company Islands, North-eastern Arnhem Land, Northern Territory, Australia. <i>Australian Journal of Botany</i> , 2000, 48, 115.	0.6	12
101	Effects of biomass burning and lightning on atmospheric chemistry over Australia and South-east Asia. <i>International Journal of Wildland Fire</i> , 2003, 12, 271.	2.4	11
102	Developing a savanna burning emissions abatement methodology for tussock grasslands in high rainfall regions of northern Australia. <i>Tropical Grasslands - Forrajes Tropicales</i> , 2014, 2, 175.	0.5	11
103	Carbon projects and Indigenous land in northern Australia. <i>Rangeland Journal</i> , 2014, 36, 389.	0.9	10
104	Threats to monsoon rainforest habitat in northern Australia: The case of <i>Ptychosperma bleeseri</i> Burret (Arecaceae). <i>Austral Ecology</i> , 1993, 18, 463-471.	1.5	9
105	Australia's north, Australia's future: A vision and strategies for sustainable economic, ecological and social prosperity in northern Australia. <i>Asia and the Pacific Policy Studies</i> , 2018, 5, 615-640.	1.5	9
106	Instantaneous Pre-Fire Biomass and Fuel Load Measurements from Multi-Spectral UAS Mapping in Southern African Savannas. <i>Fire</i> , 2021, 4, 2.	2.8	9
107	Tree recruitment dynamics in fire-prone eucalypt savanna. <i>Ecosphere</i> , 2019, 10, e02649.	2.2	8
108	Methodological approaches and challenges to assess the environmental losses from natural disasters. <i>International Journal of Disaster Risk Reduction</i> , 2020, 49, 101619.	3.9	8

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109	Seasonal fine fuel and coarse woody debris dynamics in north Australian savannas. <i>International Journal of Wildland Fire</i> , 2020, 29, 1109.	2.4	6
110	Assessing the real costs of natural hazard-induced disasters: A case study from Australia's Northern Territory. <i>Natural Hazards</i> , 2021, 108, 479-498.	3.4	6
111	Fire-Driven Decline of Endemic <i>Allosyncarpia</i> Monsoon Rainforests in Northern Australia. <i>Forests</i> , 2017, 8, 481.	2.1	5
112	Incentivising fire management in Pindan (Acacia shrubland): A proposed fuel type for Australia's Savanna burning greenhouse gas emissions abatement methodology. <i>Ecological Management and Restoration</i> , 2018, 19, 230-238.	1.5	5
113	Beneficial land sector change in far northern Australia is required and possible – a refutation of McLean and Holmes (2019). <i>Rangeland Journal</i> , 2019, 41, 363.	0.9	5
114	Appraising widespread resprouting but variable levels of postfire seeding in Australian ecosystems: the effect of phylogeny, fire regime and productivity. <i>Australian Journal of Botany</i> , 2022, 70, 114-130.	0.6	5
115	Both fire size and frequency matter – A response to Griffiths et al.. <i>Biological Conservation</i> , 2015, 192, 477.	4.1	3
116	Evaluating Resilience in Two Remote Australian Communities. <i>Procedia Engineering</i> , 2018, 212, 1257-1264.	1.2	3
117	Vegetation science in a cultural landscape the case of Kakadu National Park. <i>Phytocoenologia</i> , 1998, 28, 67-83.	0.5	3
118	Making monitoring work: insights and lessons from Australia's Long Term Ecological Research Network. <i>Australian Zoologist</i> , 2018, 39, 755-768.	1.1	3
119	Unrealised economic opportunities in remote Indigenous communities: Case studies from northern Australia. <i>Social Sciences & Humanities Open</i> , 2020, 2, 100093.	2.2	3
120	New Records of Australian Calymperaceae (Musci). <i>Bryologist</i> , 1991, 94, 88.	0.6	2
121	Empowering Indigenous natural hazards management in northern Australia. <i>Ambio</i> , 2022, 51, 2240-2260.	5.5	1
122	Fire and vegetation dynamics: Studies from the North American boreal forest. <i>Biological Conservation</i> , 1993, 65, 183-184.	4.1	0