Mark Stafford-Smith

List of Publications by Year
in descending order

103 papers	14,536 citations	57758 44 h-index	33894 99 g-index
113 all docs	113 docs citations	113 times ranked	16796 citing authors

#	Article	IF	Citations
1	Global Desertification: Building a Science for Dryland Development. Science, 2007, 316, 847-851.	12.6	2,072
2	Sustainable development goals for people and planet. Nature, 2013, 495, 305-307.	27.8	2,055
3	Chinaâ€™s response to a national land-system sustainability emergency. Nature, 2018, 559, 193-204.	27.8	839
4	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. Trends in Ecology and Evolution, 2010, 25, 241-249.	8.7	744
5	Reconceptualising adaptation to climate change as part of pathways of change and response. Global Environmental Change, 2014, 28, 325-336.	7.8	741
6	Principles for knowledge co-production in sustainability research. Nature Sustainability, 2020, 3, 182-190.	23.7	697
7	Integration: the key to implementing the Sustainable Development Goals. Sustainability Science, 2017, 12, 911-919.	4.9	554
8	A compound event framework for understanding extreme impacts. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 113-128.	8.1	442
9	Mapping interactions between the sustainable development goals: lessons learned and ways forward. Sustainability Science, 2018, 13, 1489-1503.	4.9	375
10	A framework for the ecology of arid Australia. Journal of Arid Environments, 1990, 18, 255-278.	2.4	329
11	Defining and advancing a systems approach for sustainable cities. Current Opinion in Environmental Sustainability, 2016, 23, 69-78.	6.3	313
12	Rethinking adaptation for a 4 ^{Â°} C world. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 196-216.	3.4	287
13	A fresh framework for the ecology of arid Australia. Journal of Arid Environments, 2011, 75, 313-329.	2.4	286
14	A linked vulnerability and resilience framework for adaptation pathways in remote disadvantaged communities. Global Environmental Change, 2014, 28, 337-350.	7.8	238
15	Sustainable development must account for pandemic risk. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3888-3892.	7.1	223
16	Sustainable urban systems: Co-design and framing for transformation. Ambio, 2018, 47, 57-77.	5.5	213
17	An integrated framework for sustainable development goals. Ecology and Society, 2014, 19, .	2.3	209
18	Equity and sustainability in the Anthropocene: a socialâ€“ecological systems perspective on their intertwined futures. Global Sustainability, 2018, 1, .	3.3	204

#	Article	IF	Citations
19	Planetary Stewardship in an Urbanizing World: Beyond City Limits. Ambio, 2012, 41, 787-794.	5.5	189
20	Incorporating ecological and evolutionary processes into continentalâ€scale conservation planning. Ecological Applications, 2009, 19, 206-217.	3.8	187
21	Using adaptive governance to rethink the way science supports Australian drought policy. Environmental Science and Policy, 2008, 11, 588-601.	4.9	176
22	A synthesis of recent global change research on pasture and rangeland production: reduced uncertainties and their management implications. Agriculture, Ecosystems and Environment, 2000, 82, 39-55.	5.3	159
23	Learning from episodes of degradation and recovery in variable Australian rangelands. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20690-20695.	7.1	152
24	Essential Variables help to focus Sustainable Development Goals monitoring. Current Opinion in Environmental Sustainability, 2017, 26-27, 97-105.	6.3	126
25	Scientific concepts for an integrated analysis of desertification. Land Degradation and Development, 2011, 22, 166-183.	3.9	122
26	The 'desert syndrome' - causally-linked factors that characterise outback Australia. Rangeland Journal, 2008, 30, 3.	0.9	100
27	The stewardship of arid Australia: Ecology and landscape management. Journal of Environmental Management, 1995, 43, 195-217.	7.8	97
28	Climate and desertification: looking at an old problem through new lenses. Frontiers in Ecology and the Environment, 2009, 7, 421-428.	4.0	93
29	Transforming Sustainability Science to Generate Positive Social and Environmental Change Globally. One Earth, 2020, 2, 329-340.	6.8	92
30	Constraints and opportunities in applying seasonal climate forecasts in agriculture. Australian Journal of Agricultural Research, 2007, 58, 952.	1.5	86
31	Planetary boundaries, equity and global sustainability: why wealthy countries could benefit from more equity. Current Opinion in Environmental Sustainability, 2013, 5, 403-408.	6.3	82
32	Improve forest restoration initiatives to meet Sustainable Development Goal 15. Nature Ecology and Evolution, 2021, 5, 10-13.	7.8	69
33	Australian rangelands as complex adaptive systems: A conceptual model and preliminary results. Environmental Modelling and Software, 2006, 21, 1264-1272.	4.5	65
34	Conservation strategies in response to rapid climate change: Australia as a case study. Biological Conservation, 2010, 143, 1587-1593.	4.1	64
35	Use of agro-climate ensembles for quantifying uncertainty and informing adaptation. Agricultural and Forest Meteorology, 2013, 170, 2-7.	4.8	64
36	Elevated CO 2 and water supply interactions in grasslands: a pastures and rangelands management perspective. Global Change Biology, 1997, 3, 177-187.	9.5	63

#	Article	IF	Citations
37	Risk, biology and drought management strategies for cattle stations in central Australia. Journal of Environmental Management, 1991, 33, 17-33.	7.8	58
38	Natural resources governance for the drylands of the Murrayâ€“Darling Basin. Rangeland Journal, 2010, 32, 267.	0.9	56
39	The Global-DEP conceptual framework â€” research on dryland ecosystems to promote sustainability. Current Opinion in Environmental Sustainability, 2021, 48, 17-28.	6.3	52
40	Chinaâ€™s progress towards sustainable land development and ecological civilization. Landscape Ecology, 2018, 33, 1647-1653.	4.2	51
41	Complex socio-ecological dynamics driven by extreme events in the Amazon. Regional Environmental Change, 2015, 15, 643-655.	2.9	49
42	Assessing inter-sectoral climate change risks: the role of ISIMIP. Environmental Research Letters, 2017, 12, 010301.	5.2	49
43	Advancing sustainability science for the SDGs. Sustainability Science, 2018, 13, 1483-1487.	4.9	49
44	From Oceans to Farms: The Value of a Novel Statistical Climate Forecast for Agricultural Management. Journal of Climate, 2005, 18, 4287-4302.	3.2	48
45	Lessons Learned from IPCC AR4: Scientific Developments Needed to Understand, Predict, and Respond to Climate Change. Bulletin of the American Meteorological Society, 2009, 90, 497-514.	3.3	47
46	Impacts, adaptation and vulnerability to global environmental change: challenges and pathways for an action-oriented research agenda for middle-income and low-income countries. Current Opinion in Environmental Sustainability, 2010, 2, 364-374.	6.3	47
47	Managing arid zone natural resources in Australia for spatial and temporal variability - an approach from first principles. Rangeland Journal, 2008, 30, 15.	0.9	46
48	An approach to assessing the economic risk of different drought management tactics on a South Australian pastoral sheep station. Agricultural Systems, 1992, 39, 83-105.	6.1	44
49	Problems, Prospects and Procedures for Assessing the Sustainability of Pastoral Land Management in Arid Australia. Journal of Biogeography, 1993, 20, 471.	3.0	44
50	Rising tides: adaptation policy alternatives for coastal residential buildings in Australia. Structure and Infrastructure Engineering, 2016, 12, 463-476.	3.7	42
51	Interacting Regional-Scale Regime Shifts for Biodiversity and Ecosystem Services. BioScience, 2014, 64, 665-679.	4.9	41
52	A Functional Scheme for Predicting the Outbreak Potential of Herbivorous Insects Under Global Atmospheric Change. Australian Journal of Botany, 1992, 40, 565.	0.6	39
53	Desertification, and climate change: the case for greater convergence. Mitigation and Adaptation Strategies for Global Change, 2000, 5, 361-377.	2.1	38
54	Towards a global drylands observing system: Observational requirements and institutional solutions. Land Degradation and Development, 2011, 22, 198-213.	3.9	35

#	Article	IF	Citations
55	Climate change and desertification: Where do we stand, where should we go?. Global and Planetary Change, 2008, 64, 105-110.	3.5	34
56	The 'viability' and resilience of communities and settlements in desert Australia. Rangeland Journal, 2008, 30, 123.	0.9	34
57	UN sustainability goals need quantified targets. Nature, 2014, 513, 281-281.	27.8	33
58	The Australian Collaborative Rangelands Information System: preparing for a climate of change. Rangeland Journal, 2009, 31, 111.	0.9	32
59	Finance and Management for the Anthropocene. Organization and Environment, 2019, 32, 26-40.	4.3	32
60	Simulation of Grazing Strategies for Beef Production in North-East Queensland. Atmospheric and Oceanographic Sciences Library, 2000, , 227-252.	0.1	32
61	Population dynamics of an arid zone mistletoe (Amyema preissii, Loranthaceae) and its host Acacia victoriae (Mimosaceae). Australian Journal of Botany, 2000, 48, 45.	0.6	31
62	Horses for courses: analytical tools to explore planetary boundaries. Earth System Dynamics, 2016, 7, 267-279.	7.1	31
63	Floristic and structural variation in the Tamaulipan thornscrub, northeastern Mexico. Journal of Vegetation Science, 1990, 1, 529-538.	2.2	30
64	Spread of mistletoes (Amyema preissii) in fragmented Australian woodlands: a simulation study. Landscape Ecology, 1999, 14, 147-160.	4.2	30
65	Why might roadside mulgas be better mistletoe hosts?. Austral Ecology, 1999, 24, 193-198.	1.5	29
66	Pastoralism in tropical rangelands: seizing the opportunity to change. Rangeland Journal, 2003, 25, 113.	0.9	29
67	Adapting Water Management to Climate Change in the Murrayâ€“Darling Basin, Australia. Water (Switzerland), 2021, 13, 2504.	2.7	28
68	A ruleâ€based model for the functional analysis of vegetation change in Australasian grasslands. Journal of Vegetation Science, 1999, 10, 723-730.	2.2	26
69	A plant functional approach to the prediction of changes in Australian rangeland vegetation under grazing and fire. Journal of Vegetation Science, 2003, 14, 333-344.	2.2	25
70	Australian rangeland futures: time now for systemic responses to interconnected challenges. Rangeland Journal, 2019, 41, 271.	0.9	24
71	The bioeconomic implications of various drought management strategies for a communal cattle herd in the semiâ€arid savanna of KwaZuluâ€Natal. African Journal of Range and Forage Science, 1997, 14, 17-25.	1.4	23
72	Assessing the historical frequency of drought events on grazing properties in Australian rangelands. Agricultural Systems, 1998, 57, 271-299.	6.1	23

#	Article	IF	Citations
73	Ecological and economic assessment of prescribed burning impacts in semi-arid pastoral lands of northern Australia. International Journal of Wildland Fire, 2003, 12, 403.	2.4	23
74	Patterns of accessing variable resources across time and space: Desert plants, animals and people. Journal of Arid Environments, 2009, 73, 338-346.	2.4	23
75	Editorial overview: Sustainability challenges: Agroforestry from the past into the future. Current Opinion in Environmental Sustainability, 2014, 6, 134-137.	6.3	20
76	A comparison of development options on a Northern Australian beef property. Agricultural Systems, 1990, 34, 77-102.	6.1	19
77	Interconnected risks and solutions for a planet under pressureâ€"overview and introduction. Current Opinion in Environmental Sustainability, 2012, 4, 3-6.	6.3	18
78	Modelling community interactions and social capital dynamics: The case of regional and rural communities of Australia. Agricultural Systems, 2007, 92, 179-200.	6.1	17
79	Co-designing adaptation decision support: meeting common and differentiated needs. Climatic Change, 2019, 153, 569-585.	3.6	17
80	Scale, heterogeneity and secondary production in tropical rangelands. African Journal of Range and Forage Science, 2004, 21, 137-145.	1.4	15
81	Ecological Consequences of Climate Change on Rangelands. Springer Series on Environmental Management, 2017, , 229-260.	0.3	14
82	Desert networks: A conceptual model for the impact of scarce, variable and patchy resources. Journal of Arid Environments, 2011, 75, 164-173.	2.4	13
83	Global Dryland Ecosystem Programme (Global-DEP): Australasian consultation report. Journal of Soils and Sediments, 2020, 20, 1807-1810.	3.0	13
84	Interpreting and Correcting Cross-scale Mismatches in Resilience Analysis: a Procedure and Examples from Australia's Rangelands. Ecology and Society, 2005, 10, .	2.3	12
85	Integrating models of soil dynamics, animal behaviour and vegetation response for the management of arid lands. Australian Geographer, 1987, 18, 19-23.	1.7	10
86	Governing drylands as global environmental commons. Current Opinion in Environmental Sustainability, 2021, 48, 115-124.	6.3	10
87	Guest Editorial: Building a Science of Desert Living. Rangeland Journal, 2008, 30, 1.	0.9	9
88	Editorial overview: Dryland social-ecological systems in changing environments. Current Opinion in Environmental Sustainability, 2021, 48, A1-A5.	6.3	8
89	Managing Climate Variability in Grazing Enterprises: A Case Study of Dalrymple Shire, North-Eastern Australia. Atmospheric and Oceanographic Sciences Library, 2000, , 253-270.	0.1	8
90	UNDERSTANDING GLOBAL DESERTIFICATION: BIOPHYSICAL AND SOCIOECONOMIC DIMENSIONS OF HYDROLOGY. , 2006, , 315-332.		7

#	Article	IF	Citations
91	Challenges, solutions and research priorities for sustainable rangelands. Rangeland Journal, 2020, 42, 359.	0.9	6
92	Seasonal Climate Forecasting and the Management of Rangelands: Do Production Benefits Translate into Enterprise Profits?. Atmospheric and Oceanographic Sciences Library, 2000, , 271-289.	0.1	5
93	Change the approach to sustainable development. Nature, 2012, 483, 375-375.	27.8	4
94	Research impact within the international arid literature: An Australian perspective based on network theory. Journal of Arid Environments, 2009, 73, 862-871.	2.4	2
95	Desertification: Reflections on the Mirage. Springer Earth System Sciences, 2016, , 539-560.	0.2	2
96	A narrative to support the future of the Australian Outback. Rangeland Journal, 2020, 42, 243.	0.9	2
97	Commentary: on the under-valuing of Australiaâ€™s expertise in drylands research and practice globally. Rangeland Journal, 2020, 42, 253.	0.9	2
98	Climate change affects us in the tropics: local perspectives on ecosystem services and well-being sensitivity in Southeast Brazil. Regional Environmental Change, 2022, 22, .	2.9	2
99	Responding to Global Environmental Change. , 2015, , .		1
100	National Climate Change Adaptation Case Study: Early Adaptation to Climate Change through Climate-Compatible Development and Adaptation Pathways. , 2021, , 365-388.		1
101	Climate change adaptation guidance: Clarifying three modes of planning and implementation. Climate Risk Management, 2022, 35, 100392.	3.2	1
102	Eighth In A Series: Issues Challenging Rangelands Down Under. Rangelands, 2002, 24, .	1.9	0
103	A resilience view on reframing geoengineering research and implementation. Carbon Management, 2012, 3, 23-25.	2.4	0