

# Mark Stafford-Smith

## List of Publications by Year in descending order

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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	Climate change adaptation guidance: Clarifying three modes of planning and implementation. <i>Climate Risk Management</i> , 2022, 35, 100392.	3.2	1
2	Climate change affects us in the tropics: local perspectives on ecosystem services and well-being sensitivity in Southeast Brazil. <i>Regional Environmental Change</i> , 2022, 22, .	2.9	2
3	The Global-DEP conceptual framework “ research on dryland ecosystems to promote sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 17-28.	6.3	52
4	Improve forest restoration initiatives to meet Sustainable Development Goal 15. <i>Nature Ecology and Evolution</i> , 2021, 5, 10-13.	7.8	69
5	Governing drylands as global environmental commons. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 115-124.	6.3	10
6	Editorial overview: Dryland social-ecological systems in changing environments. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, A1-A5.	6.3	8
7	Adapting Water Management to Climate Change in the Murray-Darling Basin, Australia. <i>Water (Switzerland)</i> , 2021, 13, 2504.	2.7	28
8	National Climate Change Adaptation Case Study: Early Adaptation to Climate Change through Climate-Compatible Development and Adaptation Pathways. , 2021, , 365-388.		1
9	Global Dryland Ecosystem Programme (Global-DEP): Australasian consultation report. <i>Journal of Soils and Sediments</i> , 2020, 20, 1807-1810.	3.0	13
10	Sustainable development must account for pandemic risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3888-3892.	7.1	223
11	Principles for knowledge co-production in sustainability research. <i>Nature Sustainability</i> , 2020, 3, 182-190.	23.7	697
12	Transforming Sustainability Science to Generate Positive Social and Environmental Change Globally. <i>One Earth</i> , 2020, 2, 329-340.	6.8	92
13	Challenges, solutions and research priorities for sustainable rangelands. <i>Rangeland Journal</i> , 2020, 42, 359.	0.9	6
14	A narrative to support the future of the Australian Outback. <i>Rangeland Journal</i> , 2020, 42, 243.	0.9	2
15	Commentary: on the under-valuing of Australia’s expertise in drylands research and practice globally. <i>Rangeland Journal</i> , 2020, 42, 253.	0.9	2
16	Co-designing adaptation decision support: meeting common and differentiated needs. <i>Climatic Change</i> , 2019, 153, 569-585.	3.6	17
17	Finance and Management for the Anthropocene. <i>Organization and Environment</i> , 2019, 32, 26-40.	4.3	32
18	Australian rangeland futures: time now for systemic responses to interconnected challenges. <i>Rangeland Journal</i> , 2019, 41, 271.	0.9	24

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19	Sustainable urban systems: Co-design and framing for transformation. <i>Ambio</i> , 2018, 47, 57-77.	5.5	213
20	Equity and sustainability in the Anthropocene: a social-ecological systems perspective on their intertwined futures. <i>Global Sustainability</i> , 2018, 1, .	3.3	204
21	Mapping interactions between the sustainable development goals: lessons learned and ways forward. <i>Sustainability Science</i> , 2018, 13, 1489-1503.	4.9	375
22	Advancing sustainability science for the SDGs. <i>Sustainability Science</i> , 2018, 13, 1483-1487.	4.9	49
23	China's response to a national land-system sustainability emergency. <i>Nature</i> , 2018, 559, 193-204.	27.8	839
24	China's progress towards sustainable land development and ecological civilization. <i>Landscape Ecology</i> , 2018, 33, 1647-1653.	4.2	51
25	Assessing inter-sectoral climate change risks: the role of ISIMIP. <i>Environmental Research Letters</i> , 2017, 12, 010301.	5.2	49
26	Essential Variables help to focus Sustainable Development Goals monitoring. <i>Current Opinion in Environmental Sustainability</i> , 2017, 26-27, 97-105.	6.3	126
27	Integration: the key to implementing the Sustainable Development Goals. <i>Sustainability Science</i> , 2017, 12, 911-919.	4.9	554
28	Ecological Consequences of Climate Change on Rangelands. <i>Springer Series on Environmental Management</i> , 2017, , 229-260.	0.3	14
29	Horses for courses: analytical tools to explore planetary boundaries. <i>Earth System Dynamics</i> , 2016, 7, 267-279.	7.1	31
30	Defining and advancing a systems approach for sustainable cities. <i>Current Opinion in Environmental Sustainability</i> , 2016, 23, 69-78.	6.3	313
31	Rising tides: adaptation policy alternatives for coastal residential buildings in Australia. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 463-476.	3.7	42
32	Desertification: Reflections on the Mirage. <i>Springer Earth System Sciences</i> , 2016, , 539-560.	0.2	2
33	Complex socio-ecological dynamics driven by extreme events in the Amazon. <i>Regional Environmental Change</i> , 2015, 15, 643-655.	2.9	49
34	Responding to Global Environmental Change. , 2015, , .		1
35	UN sustainability goals need quantified targets. <i>Nature</i> , 2014, 513, 281-281.	27.8	33
36	An integrated framework for sustainable development goals. <i>Ecology and Society</i> , 2014, 19, .	2.3	209

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37	Reconceptualising adaptation to climate change as part of pathways of change and response. <i>Global Environmental Change</i> , 2014, 28, 325-336.	7.8	741
38	A linked vulnerability and resilience framework for adaptation pathways in remote disadvantaged communities. <i>Global Environmental Change</i> , 2014, 28, 337-350.	7.8	238
39	Editorial overview: Sustainability challenges: Agroforestry from the past into the future. <i>Current Opinion in Environmental Sustainability</i> , 2014, 6, 134-137.	6.3	20
40	A compound event framework for understanding extreme impacts. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014, 5, 113-128.	8.1	442
41	Interacting Regional-Scale Regime Shifts for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2014, 64, 665-679.	4.9	41
42	Use of agro-climate ensembles for quantifying uncertainty and informing adaptation. <i>Agricultural and Forest Meteorology</i> , 2013, 170, 2-7.	4.8	64
43	Planetary boundaries, equity and global sustainability: why wealthy countries could benefit from more equity. <i>Current Opinion in Environmental Sustainability</i> , 2013, 5, 403-408.	6.3	82
44	Sustainable development goals for people and planet. <i>Nature</i> , 2013, 495, 305-307.	27.8	2,055
45	A resilience view on reframing geoengineering research and implementation. <i>Carbon Management</i> , 2012, 3, 23-25.	2.4	0
46	Change the approach to sustainable development. <i>Nature</i> , 2012, 483, 375-375.	27.8	4
47	Planetary Stewardship in an Urbanizing World: Beyond City Limits. <i>Ambio</i> , 2012, 41, 787-794.	5.5	189
48	Interconnected risks and solutions for a planet under pressure—overview and introduction. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 3-6.	6.3	18
49	Desert networks: A conceptual model for the impact of scarce, variable and patchy resources. <i>Journal of Arid Environments</i> , 2011, 75, 164-173.	2.4	13
50	A fresh framework for the ecology of arid Australia. <i>Journal of Arid Environments</i> , 2011, 75, 313-329.	2.4	286
51	Rethinking adaptation for a 4 <sup>Â°</sup> C world. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 196-216.	3.4	287
52	Towards a global drylands observing system: Observational requirements and institutional solutions. <i>Land Degradation and Development</i> , 2011, 22, 198-213.	3.9	35
53	Scientific concepts for an integrated analysis of desertification. <i>Land Degradation and Development</i> , 2011, 22, 166-183.	3.9	122
54	Impacts, adaptation and vulnerability to global environmental change: challenges and pathways for an action-oriented research agenda for middle-income and low-income countries. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 364-374.	6.3	47

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55	Conservation strategies in response to rapid climate change: Australia as a case study. <i>Biological Conservation</i> , 2010, 143, 1587-1593.	4.1	64
56	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. <i>Trends in Ecology and Evolution</i> , 2010, 25, 241-249.	8.7	744
57	Natural resources governance for the drylands of the Murray-Darling Basin. <i>Rangeland Journal</i> , 2010, 32, 267.	0.9	56
58	Patterns of accessing variable resources across time and space: Desert plants, animals and people. <i>Journal of Arid Environments</i> , 2009, 73, 338-346.	2.4	23
59	Research impact within the international arid literature: An Australian perspective based on network theory. <i>Journal of Arid Environments</i> , 2009, 73, 862-871.	2.4	2
60	Incorporating ecological and evolutionary processes into continental-scale conservation planning. <i>Ecological Applications</i> , 2009, 19, 206-217.	3.8	187
61	Climate and desertification: looking at an old problem through new lenses. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 421-428.	4.0	93
62	The Australian Collaborative Rangelands Information System: preparing for a climate of change. <i>Rangeland Journal</i> , 2009, 31, 111.	0.9	32
63	Lessons Learned from IPCC AR4: Scientific Developments Needed to Understand, Predict, and Respond to Climate Change. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 497-514.	3.3	47
64	Using adaptive governance to rethink the way science supports Australian drought policy. <i>Environmental Science and Policy</i> , 2008, 11, 588-601.	4.9	176
65	Climate change and desertification: Where do we stand, where should we go?. <i>Global and Planetary Change</i> , 2008, 64, 105-110.	3.5	34
66	Guest Editorial: Building a Science of Desert Living. <i>Rangeland Journal</i> , 2008, 30, 1.	0.9	9
67	The 'desert syndrome' - causally-linked factors that characterise outback Australia. <i>Rangeland Journal</i> , 2008, 30, 3.	0.9	100
68	The 'viability' and resilience of communities and settlements in desert Australia. <i>Rangeland Journal</i> , 2008, 30, 123.	0.9	34
69	Managing arid zone natural resources in Australia for spatial and temporal variability - an approach from first principles. <i>Rangeland Journal</i> , 2008, 30, 15.	0.9	46
70	Learning from episodes of degradation and recovery in variable Australian rangelands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20690-20695.	7.1	152
71	Modelling community interactions and social capital dynamics: The case of regional and rural communities of Australia. <i>Agricultural Systems</i> , 2007, 92, 179-200.	6.1	17
72	Global Desertification: Building a Science for Dryland Development. <i>Science</i> , 2007, 316, 847-851.	12.6	2,072

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73	Constraints and opportunities in applying seasonal climate forecasts in agriculture. Australian Journal of Agricultural Research, 2007, 58, 952.	1.5	86
74	Australian rangelands as complex adaptive systems: A conceptual model and preliminary results. Environmental Modelling and Software, 2006, 21, 1264-1272.	4.5	65
75	UNDERSTANDING GLOBAL DESERTIFICATION: BIOPHYSICAL AND SOCIOECONOMIC DIMENSIONS OF HYDROLOGY. , 2006, , 315-332.		7
76	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
77	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
78	Scale, heterogeneity and secondary production in tropical rangelands. African Journal of Range and Forage Science, 2004, 21, 137-145.	1.4	15
79	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
80	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
81	Pastoralism in tropical rangelands: seizing the opportunity to change. Rangeland Journal, 2003, 25, 113.	0.9	29
82	Eighth In A Series: Issues Challenging Rangelands Down Under. Rangelands, 2002, 24, .	1.9	0
83	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
84	Desertification, and climate change: the case for greater convergence. Mitigation and Adaptation Strategies for Global Change, 2000, 5, 361-377.	2.1	38
85	Population dynamics of an arid zone mistletoe ( <i>Amyema preissii</i> , Loranthaceae) and its host <i>Acacia victoriae</i> (Mimosaceae). Australian Journal of Botany, 2000, 48, 45.	0.6	31
86	Simulation of Grazing Strategies for Beef Production in North-East Queensland. Atmospheric and Oceanographic Sciences Library, 2000, , 227-252.	0.1	32
87	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
88	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
89	Why might roadside mulgas be better mistletoe hosts?. Austral Ecology, 1999, 24, 193-198.	1.5	29
90	Spread of mistletoes ( <i>Amyema preissii</i> ) in fragmented Australian woodlands: a simulation study. Landscape Ecology, 1999, 14, 147-160.	4.2	30

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91	A rule-based model for the functional analysis of vegetation change in Australasian grasslands. <i>Journal of Vegetation Science</i> , 1999, 10, 723-730.	2.2	26
92	Assessing the historical frequency of drought events on grazing properties in Australian rangelands. <i>Agricultural Systems</i> , 1998, 57, 271-299.	6.1	23
93	The bioeconomic implications of various drought management strategies for a communal cattle herd in the semi-arid savanna of KwaZulu-Natal. <i>African Journal of Range and Forage Science</i> , 1997, 14, 17-25.	1.4	23
94	Elevated CO <sub>2</sub> and water supply interactions in grasslands: a pastures and rangelands management perspective. <i>Global Change Biology</i> , 1997, 3, 177-187.	9.5	63
95	The stewardship of arid Australia: Ecology and landscape management. <i>Journal of Environmental Management</i> , 1995, 43, 195-217.	7.8	97
96	Problems, Prospects and Procedures for Assessing the Sustainability of Pastoral Land Management in Arid Australia. <i>Journal of Biogeography</i> , 1993, 20, 471.	3.0	44
97	A Functional Scheme for Predicting the Outbreak Potential of Herbivorous Insects Under Global Atmospheric Change. <i>Australian Journal of Botany</i> , 1992, 40, 565.	0.6	39
98	An approach to assessing the economic risk of different drought management tactics on a South Australian pastoral sheep station. <i>Agricultural Systems</i> , 1992, 39, 83-105.	6.1	44
99	Risk, biology and drought management strategies for cattle stations in central Australia. <i>Journal of Environmental Management</i> , 1991, 33, 17-33.	7.8	58
100	Floristic and structural variation in the Tamaulipan thornscrub, northeastern Mexico. <i>Journal of Vegetation Science</i> , 1990, 1, 529-538.	2.2	30
101	A framework for the ecology of arid Australia. <i>Journal of Arid Environments</i> , 1990, 18, 255-278.	2.4	329
102	A comparison of development options on a Northern Australian beef property. <i>Agricultural Systems</i> , 1990, 34, 77-102.	6.1	19
103	Integrating models of soil dynamics, animal behaviour and vegetation response for the management of arid lands. <i>Australian Geographer</i> , 1987, 18, 19-23.	1.7	10