Andrew D Thomas

List of Publications by Year
in descending order

44 papers	2,317 citations	218677 26 h-index	302126 39 g-index
49 all docs	49 docs citations	49 times ranked	3165 citing authors

#	Article	IF	Citations
1	Extracellular polysaccharides from cyanobacterial soil crusts: A review of their role in dryland soil processes. Journal of Arid Environments, 2011, 75, 91-97.	2.4	265
2	AEOLIAN PROCESSES AND THE BIOSPHERE. Reviews of Geophysics, 2011, 49, .	23.0	230
3	Combining analytical frameworks to assess livelihood vulnerability to climate change and analyse adaptation options. Ecological Economics, 2013, 94, 66-77.	5.7	179
4	Soil fungal abundance and plant functional traits drive fertile island formation in global drylands. Journal of Ecology, 2018, 106, 242-253.	4.0	123
5	SoilTemp: A global database of nearâ€surface temperature. Global Change Biology, 2020, 26, 6616-6629.	9.5	122
6	Nutrient losses in eroded sediment after fire in eucalyptus and pine forests in the wet Mediterranean environment of northern Portugal. Catena, 1999, 36, 283-302.	5.0	111
7	Spatial and temporal distribution of cyanobacterial soil crusts in the Kalahari: Implications for soil surface properties. Geomorphology, 2007, 85, 17-29.	2.6	96
8	Impact of grazing intensity on seasonal variations in soil organic carbon and soil CO ₂ efflux in two semiarid grasslands in southern Botswana. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3076-3086.	4.0	83
9	The use of reservoir sediments as environmental archives of catchment inputs and atmospheric pollution. Progress in Physical Geography, 2005, 29, 337-361.	3.2	77
10	Carbon dioxide fluxes from cyanobacteria crusted soils in the Kalahari. Applied Soil Ecology, 2008, 39, 254-263.	4.3	76
11	Greenhouse gas emissions from natural ecosystems and agricultural lands in sub-Saharan Africa: synthesis of available data and suggestions for further research. Biogeosciences, 2016, 13, 4789-4809.	3.3	75
12	Kalahari sand soils: spatial heterogeneity, biological soil crusts and land degradation. Land Degradation and Development, 2004, 15, 233-242.	3.9	74
13	Soil respiration at five sites along the Kalahari Transect: Effects of temperature, precipitation pulses and biological soil crust cover. Geoderma, 2011, 167-168, 284-294.	5.1	69
14	Assessment of physical and hydrological properties of biological soil crusts using X-ray microtomography and modeling. Journal of Hydrology, 2011, 397, 47-54.	5.4	64
15	Distribution and characteristics of cyanobacterial soil crusts in the Molopo Basin, South Africa. Journal of Arid Environments, 2006, 64, 270-283.	2.4	58
16	Carbon dioxide fluxes from biologically-crusted Kalahari Sands after simulated wetting. Journal of Arid Environments, 2010, 74, 131-139.	2.4	56
17	Niche partitioning of bacterial communities in biological crusts and soils under grasses, shrubs and trees in the Kalahari. Biodiversity and Conservation, 2014, 23, 1709-1733.	2.6	47
18	Cyanobacterial soil crusts and woody shrub canopies in Kalahari rangelands. African Journal of Ecology, 2005, 43, 137-145.	0.9	46

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19	The influence of trees, shrubs, and grasses on microclimate, soil carbon, nitrogen, and CO₂ efflux: Potential implications of shrub encroachment for Kalahari rangelands. Land Degradation and Development, 2018, 29, 1306-1316.	3.9	43
20	Temperature and aridity regulate spatial variability of soil multifunctionality in drylands across the globe. Ecology, 2018, 99, 1184-1193.	3.2	42
21	Post-fire forestry management and nutrient losses in eucalyptus and pine plantations, Northern Portugal. Land Degradation and Development, 2000, 11, 257-271.	3.9	40
22	Sediment Stratigraphy and Heavy Metal Fluxes to Reservoirs in the Southern Pennine Uplands, UK. Journal of Paleolimnology, 2006, 35, 305-322.	1.6	40
23	The implications for dust emission modeling of spatial and vertical variations in horizontal dust flux and particle size in the BodÃ©lÃ© Depression, Northern Chad. Journal of Geophysical Research, 2008, 113, .	3.3	35
24	Environmental correlates of species rank â˜’ abundance distributions in global drylands. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 20, 56-64.	2.7	31
25	Seasonal differences in soil CO2 efflux and carbon storage in Ntwetwe Pan, Makgadikgadi Basin, Botswana. Geoderma, 2014, 219-220, 72-81.	5.1	30
26	Microbial Communities in Long-Term Heavy Metal Contaminated Ombrotrophic Peats. Water, Air, and Soil Pollution, 2007, 186, 97-113.	2.4	28
27	Solutes in overland flow following fire in eucalyptus and pine forests, northern Portugal. Hydrological Processes, 2000, 14, 971-985.	2.6	27
28	Laboratory analysis of the effects of elevated atmospheric carbon dioxide on respiration in biological soil crusts. Journal of Arid Environments, 2013, 98, 52-59.	2.4	18
29	Biotic and Abiotic Drivers of Topsoil Organic Carbon Concentration in Drylands Have Similar Effects at Regional and Global Scales. Ecosystems, 2019, 22, 1445-1456.	3.4	18
30	Establishing the sediment stratigraphy of reservoirs in the southern Pennines, UK. Hydrological Sciences Journal, 2001, 46, 701-714.	2.6	16
31	Surface Stability in Drylands Is Influenced by Dispersal Strategy of Soil Bacteria. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3403-3418.	3.0	16
32	Effects of vegetation on bacterial communities, carbon and nitrogen in dryland soil surfaces: implications for shrub encroachment in the southwest Kalahari. Science of the Total Environment, 2021, 764, 142847.	8.0	15
33	An assessment of the effects of forest reserve management on the livelihoods of forest fringe communities in the Atwima Mponua District of Ghana. Forests Trees and Livelihoods, 2018, 27, 158-174.	1.2	12
34	The Design and Development of a Closed Chamber for the inâ€situ Quantification of Dryland Soil Carbon Dioxide Fluxes. Geographical Research, 2009, 47, 71-82.	1.8	10
35	Small-Scale Spatial Heterogeneity of Photosynthetic Fluorescence Associated with Biological Soil Crust Succession in the Tengger Desert, China. Microbial Ecology, 2019, 78, 936-948.	2.8	8
36	Cyanobacterial community composition and their functional shifts associated with biocrust succession in the Gurbantunggut Desert. Environmental Microbiology Reports, 2021, 13, 884-898.	2.4	8

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37	Soil biocrusts affect metabolic response to hydration on dunes in west Queensland, Australia. Geoderma, 2022, 405, 115464.	5.1	8
38	Larger floods reduce soil CO2 efflux during the post-flooding phase in seasonally-flooded forests of Western Amazonia. Pedosphere, 2021, 31, 342-352.	4.0	4
39	Land-use change impacts on soil processes in tropical and savannah ecosystems: emerging themes and future research directions.. , 2015, , 176-181.		2
40	Institutional Bias and the Degree Class System. Journal of Geography in Higher Education, 2007, 31, 285-297.	2.6	1
41	Pastoralism and Kalahari rangeland soils.. , 2015, , 122-132.		1
42	Soil properties across a hydrological gradient in saladas from northeast Spain: what are the implications for soil carbon stocks, CO2 efflux and microbial communities in a warming world?. Wetlands Ecology and Management, 0, , 1.	1.5	1
43	Holocene book reviews: Soils. A new global view T.R. Paton, G.S. Humphreys and P.B. Mitchell. London: UCL Press, 1995, 213 pp. Â£40, hardback. ISBN 1-85728-464-X. Holocene, 1996, 6, 503-503.	1.7	0
44	Land-use change impacts on soil processes in tropical and savannah ecosystems: an introduction.. , 2015, , 1-7.		0