Richard Bailey

List of Publications by Year
in descending order

43 papers	2,327 citations	331259 21 h-index	253896 43 g-index
43 all docs	43 docs citations	43 times ranked	3174 citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating scenarios toward zero plastic pollution. Science, 2020, 369, 1455-1461.	6.0	739
2	Biodiversity baselines, thresholds and resilience: testing predictions and assumptions using palaeoecological data. Trends in Ecology and Evolution, 2010, 25, 583-591.	4.2	297
3	An early modern human presence in Sumatra 73,000â€"63,000 years ago. Nature, 2017, 548, 322-325.	13.7	200
4	Tracking sustainable development with a national barometer for South Africa using a downscaled â€œsafe and just spaceâ€•framework. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4399-408.	3.3	109
5	Last appearance of Homo erectus at Ngandong, Java, 117,000â€"108,000Âyears ago. Nature, 2020, 577, 381-385.	13.7	97
6	Characterizing turbulent wind flow around dryland vegetation. Earth Surface Processes and Landforms, 2016, 41, 1421-1436.	1.2	72
7	Spatial inequality in water access and water use in South Africa. Water Policy, 2018, 20, 37-52.	0.7	52
8	A quantitative approach to understanding dated dune stratigraphies. Earth Surface Processes and Landforms, 2014, 39, 614-631.	1.2	51
9	Late Quaternary chronology of major dune ridge development in the northeast Rub' al-Khali, United Arab Emirates. Quaternary Research, 2011, 76, 93-105.	1.0	50
10	Spatial and temporal signatures of fragility and threshold proximity in modelled semi-arid vegetation. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1064-1071.	1.2	49
11	A coupled vegetation/sediment transport model for dryland environments. Journal of Geophysical Research F: Earth Surface, 2017, 122, 875-900.	1.0	41
12	Dynamics of skimming flow in the wake of a vegetation patch. Aeolian Research, 2016, 22, 141-151.	1.1	39
13	The utility of desert sand dunes as Quaternary chronostratigraphic archives: evidence from the northeast Rub' al Khali. Quaternary Science Reviews, 2013, 78, 303-318.	1.4	38
14	Using artificial neural networks to predict future dryland responses to human and climate disturbances. Scientific Reports, 2019, 9, 3855.	1.6	36
15	Reproducibility and utility of dune luminescence chronologies. Earth-Science Reviews, 2014, 129, 24-39.	4.0	33
16	Large networks of rational agents form persistent echo chambers. Scientific Reports, 2018, 8, 12391.	1.6	33
17	Spatial variability in sustainable development trajectories in South Africa: provincial level safe and just operating spaces. Sustainability Science, 2017, 12, 829-848.	2.5	32
18	A computational approach to managing coupled humanâ€"environmental systems: the POSEIDON model of ocean fisheries. Sustainability Science, 2019, 14, 259-275.	2.5	32

#	ARTICLE	IF	CITATIONS
19	Is there evidence for global‐scale forcing of Southern Hemisphere Quaternary desert dune accumulation? A quantitative method for testing hypotheses of dune system development. Earth Surface Processes and Landforms, 2017, 42, 2280-2294.	1.2	27
20	Interpreting and modelling late Quaternary dune accumulation in the southern Arabian Peninsula. Quaternary Science Reviews, 2014, 102, 1-13.	1.4	23
21	A field‐based parameterization of wind flow recovery in the lee of dryland plants. Earth Surface Processes and Landforms, 2017, 42, 378-386.	1.2	23
22	Modelled responses of the Kalahari Desert to 21st century climate and land use change. Scientific Reports, 2017, 7, 3887.	1.6	23
23	Synergistic interactions among growing stressors increase risk to an Arctic ecosystem. Nature Communications, 2020, 11, 6255.	5.8	22
24	A Middle Pleistocene Denisovan molar from the Annamite Chain of northern Laos. Nature Communications, 2022, 13, 2557.	5.8	20
25	Allostratigraphy and Quaternary dune sediments: Not all bounding surfaces are the same. Aeolian Research, 2013, 11, 55-60.	1.1	18
26	Modelling aeolian sand transport using a dynamic mass balancing approach. Geomorphology, 2017, 280, 108-121.	1.1	18
27	Analysis of late Quaternary dunefield development in Asia using the accumulation intensity model. Aeolian Research, 2019, 39, 33-46.	1.1	18
28	Analytic Versus Computational Cognitive Models: Agent-Based Modeling as a Tool in Cognitive Sciences. Current Directions in Psychological Science, 2019, 28, 299-305.	2.8	18
29	Modelling the risk of deterioration at earthen heritage sites in drylands. Earth Surface Processes and Landforms, 2020, 45, 2401-2416.	1.2	16
30	Opportunities for agent‐based modelling in human dimensions of fisheries. Fish and Fisheries, 2020, 21, 570-587.	2.7	16
31	Controls on sand ramp formation in southern Namibia. Earth Surface Processes and Landforms, 2018, 43, 150-171.	1.2	15
32	Deterioration risk of dryland earthen heritage sites facing future climatic uncertainty. Scientific Reports, 2020, 10, 16419.	1.6	12
33	Water for sustainable development in the Berg Water Management Area, South Africa. South African Journal of Science, 2018, 114, 10.	0.3	9
34	Holocene palaeoenvironmental changes in the Thar Desert: An integrated assessment incorporating new insights from aeolian systems. Quaternary Science Reviews, 2020, 233, 106214.	1.4	9
35	OSIRIS: A model for integrating the effects of multiple stressors on marine ecosystems. Journal of Theoretical Biology, 2020, 493, 110211.	0.8	8
36	Sand ramps as palaeoenvironmental archives: Integrating general principles and regional contexts through reanalysis of the Klipkraal Sands, South Africa. Geomorphology, 2018, 311, 103-113.	1.1	6

#	Article	IF	Citations
37	Investigating the potential of HCl-only treated samples using range-finder OSL dating. Quaternary Geochronology, 2015, 25, 1-9.	0.6	5
38	Unifying relationships between complexity and stability in mutualistic ecological communities. Journal of Theoretical Biology, 2018, 439, 100-126.	0.8	5
39	Complex disturbance‒driven reactivation of near‒surface sediments in the largest dunefield in North America during the last 200 years. Earth Surface Processes and Landforms, 2019, 44, 2794-2809.	1.2	5
40	From reactive towards anticipatory fishing agents. Journal of Simulation, 2021, 15, 23-37.	1.0	4
41	Identifying chronostratigraphic breaks in aeolian sediment profiles using near-surface luminescence dating and changepoint analysis. Quaternary Geochronology, 2018, 46, 45-58.	0.6	3
42	Agent-based modelling as a tool for elephant poaching mitigation. Ecological Modelling, 2020, 427, 109054.	1.2	3
43	A novel framework to operationalise value-pluralism in environmental valuation: Environmental value functions. Ecological Economics, 2022, 193, 107327.	2.9	1