Robert Bryant

List of Publications by Year
in descending order

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71 papers	3,090 citations	159585 30 h-index	168389 53 g-index
83 all docs	83 docs citations	83 times ranked	3435 citing authors

#	Article	IF	Citations
1	Modelling landscape-scale habitat use using GIS and remote sensing: a case study with great bustards. Journal of Applied Ecology, 2001, 38, 458-471.	4.0	414
2	Dust source identification using MODIS: A comparison of techniques applied to the Lake Eyre Basin, Australia. Remote Sensing of Environment, 2009, 113, 1511-1528.	11.0	171
3	The evolution of coastal barrier systems: a case study of the Middle-Late Pleistocene Wilderness barriers, South Africa. Quaternary Science Reviews, 2011, 30, 63-81.	3.0	121
4	Mapping intertidal estuarine sediment grain size distributions through airborne remote sensing. Remote Sensing of Environment, 2003, 86, 480-490.	11.0	117
5	Investigation of flood inundation on playas within the Zone of Chotts, using a time-series of AVHRR. Remote Sensing of Environment, 2002, 82, 360-375.	11.0	103
6	Ephemeral lakes and desert dust sources. Geophysical Research Letters, 2003, 30, .	4.0	96
7	Dust emission response to climate in southern Africa. Journal of Geophysical Research, 2007, 112, .	3.3	91
8	Protocols for UV camera volcanic SO2 measurements. Journal of Volcanology and Geothermal Research, 2010, 194, 55-60.	2.1	83
9	Quantifying geomorphic and riparian land cover changes either side of a large flood event using airborne remote sensing: River Tay, Scotland. Geomorphology, 1999, 29, 307-321.	2.6	79
10	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. Cryosphere, 2020, 14, 309-330.	3.9	78
11	The mapping of hydrothermal alteration zones on the island of Lesvos, Greece using an integrated remote sensing dataset. International Journal of Remote Sensing, 2002, 23, 341-356.	2.9	71
12	A subâ€basin scale dust plume source frequency inventory for southern Africa, 2005â€“2008. Geophysical Research Letters, 2013, 40, 5274-5279.	4.0	71
13	The Namib Sand Sea digital database of aeolian dunes and key forcing variables. Aeolian Research, 2010, 2, 93-104.	2.7	67
14	Ultraviolet Imaging with Low Cost Smartphone Sensors: Development and Application of a Raspberry Pi-Based UV Camera. Sensors, 2016, 16, 1649.	3.8	67
15	Validated linear mixture modelling of Landsat TM data for mapping evaporite minerals on a playa surface: methods and applications. International Journal of Remote Sensing, 1996, 17, 315-330.	2.9	65
16	Detecting near-surface moisture stress in spp.. Remote Sensing of Environment, 2005, 97, 371-381.	11.0	61
17	Quantifying bioalbedo: a new physically based model and discussion of empirical methods for characterising biological influence on ice and snow albedo. Cryosphere, 2017, 11, 2611-2632.	3.9	61
18	Recent advances in our understanding of dust source emission processes. Progress in Physical Geography, 2013, 37, 397-421.	3.2	57

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19	Mapping the effects of water stress on Sphagnum: Preliminary observations using airborne remote sensing. Remote Sensing of Environment, 2006, 100, 363-378.	11.0	56
20	A multi-scale remote sensing approach for monitoring northern peatland hydrology: Present possibilities and future challenges. Journal of Environmental Management, 2009, 90, 2178-2188.	7.8	56
21	Application of AVHRR to monitoring a climatically sensitive playa. case study: Chott El Djerid, Southern Tunisia. Earth Surface Processes and Landforms, 1999, 24, 283-302.	2.5	55
22	The influence of surface and interstitial moisture on the spectral characteristics of intertidal sediments: Implications for airborne image acquisition and processing. International Journal of Remote Sensing, 2000, 21, 3025-3038.	2.9	53
23	Estimating aerodynamic roughness over complex surface terrain. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,948.	3.3	51
24	Marine-like potash evaporite formation on a continental playa: case study from Chott el Djerid, southern Tunisia. Sedimentary Geology, 1994, 90, 269-291.	2.1	49
25	A machine learning approach to map tropical selective logging. Remote Sensing of Environment, 2019, 221, 569-582.	11.0	46
26	Monitoring hydrological controls on dust emissions: preliminary observations from Etosha Pan, Namibia. Geographical Journal, 2003, 169, 131-141.	3.1	45
27	The hydrochemistry of a semi-arid pan basin case study: Sua Pan, Makgadikgadi, Botswana. Applied Geochemistry, 2008, 23, 1563-1580.	3.0	44
28	The spectral behaviour ofSphagnumcanopies under varying hydrological conditions. Geophysical Research Letters, 2003, 30, .	4.0	38
29	Techniques for measuring rock weathering: application to a dated fan segment sequence in southern Tunisia. Earth Surface Processes and Landforms, 1998, 23, 1031-1043.	2.5	37
30	On the formation of sand ramps: A case study from the Mojave Desert. Geomorphology, 2012, 161-162, 93-109.	2.6	34
31	Testing the performance of state-of-the-art dust emission schemes using DO4Models field data. Geoscientific Model Development, 2015, 8, 341-362.	3.6	34
32	The dynamism of salt crust patterns on playas. Geology, 2015, 43, 31-34.	4.4	31
33	Evaporative sodium salt crust development and its wind tunnel derived transport dynamics under variable climatic conditions. Aeolian Research, 2016, 23, 51-62.	2.7	31
34	A preliminary investigation into the spectral characteristics of inter-tidal estuarine sediments. International Journal of Remote Sensing, 1996, 17, 405-412.	2.9	30
35	Detecting tropical selective logging with C-band SAR data may require a time series approach. Remote Sensing of Environment, 2021, 259, 112411.	11.0	29
36	Hydrochemical fluctuations and crustacean community composition in an ephemeral saline lake (Sua) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	28

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37	Analysis of Aerial Photography and Other Remotely Sensed Data. , 2005, , 135-170.		26
38	Hydrochemical and water source variations across a floodplain mire, Insh Marshes, Scotland. Hydrological Processes, 1995, 9, 99-110.	2.6	25
39	Climateâ€“surfaceâ€“poreâ€water interactions on a salt crusted playa: implications for crust pattern and surface roughness development measured using terrestrial laser scanning. Earth Surface Processes and Landforms, 2016, 41, 738-753.	2.5	24
40	The Use of Image Analysis in the Micromorphological Study of Old Cultivated Soils: an Evaluation Based on Soils from the Island of Papa Stour, Shetland. Journal of Archaeological Science, 1996, 23, 811-822.	2.4	23
41	Relict Soils and Early Arable Land Management in Lofoten, Norway. Journal of Archaeological Science, 1998, 25, 1185-1198.	2.4	22
42	Comparison of Low Cost Miniature Spectrometers for Volcanic SO2 Emission Measurements. Sensors, 2009, 9, 3256-3268.	3.8	19
43	A Rapidly Convecting Lava Lake at Masaya Volcano, Nicaragua. Frontiers in Earth Science, 2019, 6, .	1.8	19
44	Where are mines located in<scp>sub Saharan</scp>Africa and how have they expanded overtime?. Land Degradation and Development, 2021, 32, 112-122.	3.9	18
45	Water security in <scp>subâ€Saharan</scp> Africa: Understanding the status of sustainable development goal 6. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1552.	6.5	18
46	THE CHEMICAL EVOLUTION OF THE BRINES OF CHOTT EL DJERID, SOUTHERN TUNISIA, AFTER AN EXCEPTIONAL RAINFALL EVENT IN JANUARY 1990. , 1994, , 3-12.		18
47	Synoptic climatology of cold air drainage in the Derwent Valley, Peak District, UK. Meteorological Applications, 2014, 21, 161-170.	2.1	17
48	Meteorological effects of the solar eclipse of 20 March 2015: analysis of UK Met Office automatic weather station data and comparison with automatic weather station data from the Faroes and Iceland. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150212.	3.4	17
49	Understanding dust sources through remote sensing: Making a case for CubeSats. Journal of Arid Environments, 2021, 184, 104335.	2.4	17
50	Enhancing weak transient signals in SEVIRI false color imagery: Application to dust source detection in southern Africa. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,199.	3.3	13
51	The PiSpec: A Low-Cost, 3D-Printed Spectrometer for Measuring Volcanic SO2 Emission Rates. Frontiers in Earth Science, 2019, 7, .	1.8	12
52	Optimization of UAVsâ€SfM data collection in aeolian landform morphodynamics: a case study from the Gonghe Basin, China. Earth Surface Processes and Landforms, 2020, 45, 3293-3312.	2.5	12
53	Pre-melt-season sediment plume variability at JÃ¶kulsÃ¡rlÃ³n, Iceland, a preliminary evaluation using in-situ spectroradiometry and satellite imagery. Annals of Glaciology, 2016, 57, 39-46.	1.4	9
54	Mapping pervasive selective logging in the south-west Brazilian Amazon 2000â€“2019. Environmental Research Letters, 2020, 15, 094057.	5.2	9

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55	Increasing rain intensity over Okinawa, 1982â€“2005, and the link to changes in characteristics of northwest Pacific typhoons. Journal of Geophysical Research, 2010, 115, .	3.3	8
56	The hydrology of glacierâ€bed overdeepenings: Sediment transport mechanics, drainage system morphology, and geomorphological implications. Earth Surface Processes and Landforms, 2021, 46, 2264-2278.	2.5	7
57	PLAYA SEDIMENTOLOGY AND GEOMORPHOLOGY: MIXTURE MODELLING APPLIED TO LANDSAT THEMATIC MAPPER DATA OF CHOTT EL DJERID, TUNISIA. , 1994, , 125-131.		7
58	Fifty years of Area: Taking stock, looking forward. Area, 2018, 50, 434-439.	1.6	6
59	Northern Peatland Vegetation and the Carbon Cycle: A Remote Sensing Approach. Geophysical Monograph Series, 0, , 79-98.	0.1	5
60	Environmental controls at multiple scales for the western Pacific: An Okinawan case study. Estuarine, Coastal and Shelf Science, 2013, 128, 52-63.	2.1	5
61	Application of Spatial Interpolation Method for Estimating the Spatial Variability of Rainfall in Semiarid New Mexico, USA. Mediterranean Journal of Social Sciences, 2015, , .	0.2	5
62	Salt ramps: Wind-induced depositional features on Tunisian playas. Earth Surface Processes and Landforms, 1995, 20, 105-113.	2.5	4
63	UVolc: A software platform for measuring volcanic SO2 fluxes. Computers and Geosciences, 2012, 40, 194-199.	4.2	3
64	Warm Arctic Proglacial Lakes in the ASTER Surface Temperature Product. Remote Sensing, 2021, 13, 2987.	4.0	3
65	Combining Sentinel-1 and Landsat 8 Does Not Improve Classification Accuracy of Tropical Selective Logging. Remote Sensing, 2022, 14, 179.	4.0	3
66	Remote Sensing of Aeolian Processes. , 2022, , 84-119.		2
67	Blowout Morphometrics and Mass Balances. Frontiers in Earth Science, 2021, 9, .	1.8	1
68	Deserts and Desert Environments - By Julie Laity. Geographical Journal, 2010, 176, 119-119.	3.1	0
69	A prospectus for future geomorphological investigation of the Namib Sand Sea. Transactions of the Royal Society of South Africa, 2014, 69, 151-156.	1.1	0
70	THE PROMISE OF HYPERSPATIAL REMOTE SENSING FOR UNDERSTANDING AEOLIAN PROCESSES: AN EXAMPLE USING PLANETSCOPE AT â€œTHE DUSTIEST PLACE ON EARTHâ€• , 2019, , .		0
71	Meteorological effects and impacts of the 10 June 2021 solar eclipse over the British Isles, Iceland and Greenland. Weather, 0, , .	0.7	0