Keith S Richards

List of Publications by Year
in descending order

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70 papers	3,669 citations	172207 29 h-index	155451 55 g-index
80 all docs	80 docs citations	80 times ranked	5130 citing authors

#	Article	IF	Citations
1	Importance of food-demand management for climate mitigation. Nature Climate Change, 2014, 4, 924-929.	8.1	562
2	Accelerated lake expansion on the Tibetan Plateau in the 2000s: Induced by glacial melting or other processes?. Water Resources Research, 2014, 50, 3170-3186.	1.7	206
3	Environmental flows and water governance: managing sustainable water uses. Current Opinion in Environmental Sustainability, 2013, 5, 341-351.	3.1	198
4	Geomorphic dynamics of floodplains: ecological implications and a potential modelling strategy. Freshwater Biology, 2002, 47, 559-579.	1.2	183
5	Linking River Channel Form and Process: Time, Space and Causality Revisited. , 1997, 22, 249-260.		180
6	China's energy-water nexus â€“ assessment of the energy sector's compliance with the â€œ3 Red Linesâ€• industrial water policy. Energy Policy, 2015, 82, 131-143.	4.2	138
7	Analysing laserâ€scanned digital terrain models of gravel bed surfaces: linking morphology to sediment transport processes and hydraulics. Sedimentology, 2009, 56, 2024-2043.	1.6	137
8	Geometry, bed topography and drainage system structure of the haut glacier d'Arolla, Switzerland. Earth Surface Processes and Landforms, 1993, 18, 557-571.	1.2	121
9	Interactive effects of soil moisture, vegetation canopy, plant litter and seed addition on plant diversity in a wetland community. Journal of Ecology, 2003, 91, 976-986.	1.9	110
10	Turbidity and suspended sediment dynamics in small catchments in the Nepal Middle Hills. Hydrological Processes, 2000, 14, 2559-2574.	1.1	94
11	In situ characterization of grainâ€scale fluvial morphology using Terrestrial Laser Scanning. Earth Surface Processes and Landforms, 2009, 34, 954-968.	1.2	92
12	AN INTEGRATED APPROACH TO MODELLING HYDROLOGY AND WATER QUALITY IN GLACIERIZED CATCHMENTS. , 1996, 10, 479-508.		89
13	The Link Between Polycentrism and Adaptive Capacity in River Basin Governance Systems: Insights from the River Rhine and the Zhujiang (Pearl River) Basin. Annals of the American Association of Geographers, 2013, 103, 319-329.	3.0	88
14	A Collaboratively-Derived Science-Policy Research Agenda. PLoS ONE, 2012, 7, e31824.	1.1	87
15	Configuration of the Drainage System of Midtdalsbreen, Norway, as Indicated by Dye-Tracing Experiments. Journal of Glaciology, 1990, 36, 89-101.	1.1	80
16	Initial results from a distributed, physically based model of glacier hydrology. Hydrological Processes, 1998, 12, 191-219.	1.1	78
17	Quadrant/octant sequencing and the role of coherent structures in bed load sediment entrainment. Journal of Geophysical Research F: Earth Surface, 2014, 119, 264-286.	1.0	75
18	Land-Water-Food Nexus and indications of crop adjustment for water shortage solution. Science of the Total Environment, 2018, 626, 11-21.	3.9	72

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19	High resolution, two-dimensional spatial modelling of flow processes in a multi-thread channel. , 1998, 12, 1279-1298.		69
20	Transition towards a new global change science: Requirements for methodologies, methods, data and knowledge. Environmental Science and Policy, 2013, 28, 36-47.	2.4	68
21	Sensitivity of bed shear stress estimated from vertical velocity profiles: the problem of sampling resolution. , 1998, 23, 133-139.		57
22	LINKS BETWEEN PROGLACIAL STREAM SUSPENDED SEDIMENT DYNAMICS, GLACIER HYDROLOGY AND GLACIER MOTION AT MIDTDALSBREEN, NORWAY. Hydrological Processes, 1996, 10, 629-648.	1.1	56
23	Impact of Meadow Degradation on Soil Water Status and Pasture Managementâ€"A Case Study in Tibet. Land Degradation and Development, 2015, 26, 468-479.	1.8	48
24	The response of male and female black poplar (Populus nigra L. subspeciesbetulifolia (Pursh) W.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 management and river corridor biodiversity. Hydrological Processes, 2000, 14, 3075-3098.	1.1	46
25	Land use implications of future energy system trajectoriesâ€"The case of the UK 2050 Carbon Plan. Energy Policy, 2015, 86, 328-337.	4.2	46
26	On the modelling of sand bedforms using the semivariogram. Earth Surface Processes and Landforms, 1988, 13, 459-473.	1.2	42
27	Discreteâ€"element modelling: methods and applications in the environmental sciences. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1797-1816.	1.6	42
28	Earth System Science: an oxymoron?. Earth Surface Processes and Landforms, 2005, 30, 379-383.	1.2	39
29	Science, systems and geomorphologies: why LESS may be more. Earth Surface Processes and Landforms, 2008, 33, 1323-1340.	1.2	39
30	The influence of hydrological regimes on sex ratios and spatial segregation of the sexes in two dioecious riparian shrub species in northern Sweden. Plant Ecology, 2010, 208, 77-92.	0.7	39
31	Visualising a Stochastic Model of Californian Water Resources Using Sankey Diagrams. Water Resources Management, 2013, 27, 3035-3050.	1.9	35
32	The influence of microform bed roughness elements on flow and sediment transport in gravel bed rivers: Comment on a paper by marwan A. Hassan and ian reid. Earth Surface Processes and Landforms, 1992, 17, 529-534.	1.2	33
33	An integrated representation of the services provided by global water resources. Journal of Environmental Management, 2013, 129, 456-462.	3.8	31
34	Discrete-element, individual-based and agent-based models: Tools for interdisciplinary enquiry in geography?. Geoforum, 2008, 39, 625-642.	1.4	30
35	Modeling entrainment of sedimentary particles by wind and water: A generalized approach. Journal of Geophysical Research, 2005, 110, .	3.3	23
36	A physically-based bedload transport model developed for 3-D reach-scale cellular modelling. Geomorphology, 2007, 90, 244-262.	1.1	23

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37	Drainage basin structure, sediment delivery and the response to environmental change. Geological Society Special Publication, 2002, 191, 149-160.	0.8	21
38	Ongoing Drainage Reorganization Driven by Rapid Lake Growths on the Tibetan Plateau. Geophysical Research Letters, 2021, 48, e2021GL095795.	1.5	21
39	â€˜realâ€™ geomorphology revisited. Earth Surface Processes and Landforms, 1994, 19, 277-281.	1.2	19
40	The Positive Feedback Loop between the Impacts of Climate Change and Agricultural Expansion and Relocation. Land, 2014, 3, 898-916.	1.2	19
41	Configuration of the Drainage System of Midtdalsbreen, Norway, as Indicated by Dye-Tracing Experiments. Journal of Glaciology, 1990, 36, 89-101.	1.1	17
42	Homogenization of surface temperature data in High Mountain Asia through comparison of reanalysis data and station observations. International Journal of Climatology, 2016, 36, 1088-1101.	1.5	15
43	Not all low-carbon energy pathways are environmentally â€œno-regretsâ€•options. Global Environmental Change, 2015, 35, 379-390.	3.6	14
44	Interactions between damâ€•regulated river flow and riparian groundwater: a case study from the Yellow River, China. Hydrological Processes, 2012, 26, 1552-1560.	1.1	13
45	The nature of publishing and assessment in Geography and Environmental Studies: evidence from the Research Assessment Exercise 2008. Area, 2009, 41, 231-243.	1.0	12
46	Simulation of screeâ€slope dynamics: investigating the distribution of debris avalanche events in an idealized twoâ€dimensional model. Earth Surface Processes and Landforms, 2014, 39, 1601-1610.	1.2	12
47	The He-Zhang (River chief/keeper) system: an innovation in China's water governance and management. International Journal of River Basin Management, 2019, 17, 263-270.	1.5	12
48	A medium-term estimate of bedload yield in allt A'Mhuillin, Ben Nevis, Scotland. Earth Surface Processes and Landforms, 1985, 10, 407-411.	1.2	10
49	Irreversible river water quality and the concept of the reference condition. Area, 2012, 44, 423-431.	1.0	10
50	Climate extremes in the Kobresia meadow area of the Qinghai-Tibetan Plateau, 1961â€“2008. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
51	Kobresia meadow degradation and its impact on water status. Ecohydrology, 2017, 10, e1844.	1.1	7
52	Approaches to evaluating model quality across different regime types in environmental and public health governance. Global Environmental Change, 2015, 33, 23-31.	3.6	6
53	Uncertainty in Riparian and Floodplain Restoration. , 0, , 79-104.		5
54	Flowâ€“Vegetation Interactions in Restored Floodplain Environments. , 0, , 269-294.		5

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55	Arsenic in Asia. , 0, , 318-386.		5
56	The historical avulsion of the Tista River, and its relationship to the Brahmaputra: Map and archive evidence from 1750 to 1835. Geographical Journal, 2021, 187, 253-268.	1.6	5
57	Adaptation to flooding in lowâ€income urban settlements in the least developed countries: A systems approach. Geographical Journal, 2020, 186, 314-326.	1.6	4
58	INTEGRATED STUDIES OF HYDROLOGY AND WATER QUALITY IN GLACIERIZED CATCHMENTS. Hydrological Processes, 1996, 10, 475-478.	1.1	3
59	Comment on â€˜External examiners and the continuing inflation of UK undergraduate geography degree resultsâ€™ by John E Thornes. Area, 2012, 44, 379-381.	1.0	2
60	Sediment Delivery: New Approaches to Modelling an Old Problem. , 2008, , 337-366.		1
61	Removing Arsenic from Drinking Water. , 0, , 261-317.		1
62	The Hydrogeology of Arsenic. , 0, , 73-117.		1
63	Soils and Agriculture. , 0, , 118-156.		1
64	Hydrogeochemistry of Arsenic. , 0, , 25-72.		1
65	Arsenic in South and Central America, Africa, Australasia and Oceania. , 0, , 455-491.		1
66	Bushfires â€“ Climate, people and policies. Geographical Journal, 2020, 186, 424-430.	1.6	1
67	The response of male and female black poplar (Populus nigra L. subspecies betulifolia (Pursh) W.) Tj ETQq1 1 0.784314 rgBT /Overloc management and river corridor biodiversity. Hydrological Processes, 2000, 14, 3075-3098.	1.1	1
68	Manning'sn Expert Panel experiment: an invitation. Hydrological Processes, 2003, 17, 1469-1469.	1.1	0
69	Water-Supply Mitigation. , 0, , 213-260.		0
70	Synthesis, Conclusions and Recommendations. , 0, , 492-527.		0