

Richard Hardy

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,784
citations

182225

30
h-index

223390

49
g-index

62
all docs

62
docs citations

62
times ranked

2589
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Biofilms on Turbulent Flow Over Permeable Beds. <i>Water Resources Research</i> , 2021, 57, e2019WR026032.	1.7	4
2	The Influence of Threeâ€­Dimensional Topography on Turbulent Flow Structures Over Dunes in Unidirectional Flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006121.	1.0	7
3	Flexural Rigidity and Shoot Reconfiguration Determine Wake Length Behind Saltmarsh Vegetation Patches. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2176-2196.	1.0	19
4	Flow resistance and hydraulic geometry in bedrock rivers with multiple roughness length scales. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2437-2449.	1.2	19
5	The Importance of Monitoring Interval for Rockfall Magnitudeâ€­Frequency Estimation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2841-2853.	1.0	43
6	Rethinking flood risk communication. <i>Natural Hazards</i> , 2018, 92, 1665-1686.	1.6	61
7	The importance of riparian plant orientation in river flow: implications for flow structures and drag. <i>Journal of Ecohydraulics</i> , 2018, 3, 108-129.	1.6	1
8	Evaluating the success of public participation in integrated catchment management. <i>Journal of Environmental Management</i> , 2018, 228, 267-278.	3.8	33
9	The Impact of Nonequilibrium Flow on the Structure of Turbulence Over River Dunes. <i>Water Resources Research</i> , 2018, 54, 6566-6584.	1.7	16
10	Optimising 4-D surface change detection: an approach for capturing rockfall magnitudeâ€­frequency. <i>Earth Surface Dynamics</i> , 2018, 6, 101-119.	1.0	107
11	Flow resistance and hydraulic geometry in contrasting reaches of a bedrock channel. <i>Water Resources Research</i> , 2017, 53, 2278-2293.	1.7	20
12	Does the canopy mixing layer model apply to highly flexible aquatic vegetation? Insights from numerical modelling. <i>Environmental Fluid Mechanics</i> , 2017, 17, 277-301.	0.7	25
13	A numerical investigation into the importance of bed permeability on determining flow structures over river dunes. <i>Water Resources Research</i> , 2017, 53, 3067-3086.	1.7	27
14	Bed load tracer mobility in a mixed bedrock/alluvial channel. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 807-822.	1.0	41
15	Modeling complex flow structures and drag around a submerged plant of varied posture. <i>Water Resources Research</i> , 2017, 53, 2877-2901.	1.7	25
16	Patchâ€­scale representation of vegetation within hydraulic models. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 699-710.	1.2	29
17	The importance of accurately representing submerged vegetation morphology in the numerical prediction of complex river flow. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 567-576.	1.2	34
18	On the evolution and form of coherent flow structures over a gravel bed: Insights from whole flow field visualization and measurement. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1472-1493.	1.0	40

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19	On validating predictions of plant motion in coupled biomechanical-flow models. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 808-813.	0.7	3
20	The hydraulic description of vegetated river channels: the weaknesses of existing formulations and emerging alternatives. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014, 1, 549-560.	2.8	30
21	High-resolution numerical modelling of flow-vegetation interactions. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 775-793.	0.7	43
22	Scales and causes of heterogeneity in bars in a large multi-channel river: Río Paran�, Argentina. <i>Sedimentology</i> , 2014, 61, 1055-1085.	1.6	48
23	The role of tributary relative timing and sequencing in controlling large floods. <i>Water Resources Research</i> , 2014, 50, 5444-5458.	1.7	44
24	Effect of bed permeability and hyporheic flow on turbulent flow over bed forms. <i>Geophysical Research Letters</i> , 2014, 41, 6435-6442.	1.5	50
25	Splitting rivers at their seams: bifurcations and avulsion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 47-61.	1.2	204
26	River bifurcations and avulsion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 317-318.	1.2	4
27	Application of a roughness-length representation to parameterize energy loss in 3D numerical simulations of large rivers. <i>Water Resources Research</i> , 2012, 48, .	1.7	14
28	Topographic forcing of flow partition and flow structures at river bifurcations. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 666-679.	1.2	41
29	Quantifying the dynamics of flow within a permeable bed using time-resolved endoscopic particle imaging velocimetry (EPIV). <i>Experiments in Fluids</i> , 2012, 53, 51-76.	1.1	31
30	An experimental study of discharge partitioning and flow structure at symmetrical bifurcations. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2069-2082.	1.2	52
31	Flow structures at an idealized bifurcation: a numerical experiment. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2083-2096.	1.2	38
32	On the relationship between flow and suspended sediment transport over the crest of a sand dune, Río Paran�, Argentina. <i>Sedimentology</i> , 2010, 57, 252-272.	1.6	74
33	Coherent flow structures in a depth-limited flow over a gravel surface: The influence of surface roughness. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
34	Reconstruction of subgrid-scale topographic variability and its effect upon the spatial structure of three-dimensional river flow. <i>Water Resources Research</i> , 2010, 46, .	1.7	15
35	Coherent flow structures in a depth-limited flow over a gravel surface: The role of near-bed turbulence and influence of Reynolds number. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	102
36	Large River Channel Confluences. , 2008, , 73-91.		34

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37	Geomorphology Fluid Flow Modelling: Can Fluvial Flow Only Be Modelled Using a Three-dimensional Approach?. <i>Geography Compass</i> , 2008, 2, 215-234.	1.5	3
38	Causes of rapid mixing at a junction of two large rivers: Río Paraná and Río Paraguay, Argentina. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	115
39	Assessing different methods of generating a three-dimensional numerical model mesh for a complex stream bed topography. <i>International Journal of Computational Fluid Dynamics</i> , 2007, 21, 37-47.	0.5	11
40	Emergence of coherent flow structures over a gravel surface: A numerical experiment. <i>Water Resources Research</i> , 2007, 43, .	1.7	49
41	A comparison of one- and two-dimensional approaches to modelling flood inundation over complex upland floodplains. <i>Hydrological Processes</i> , 2007, 21, 3190-3202.	1.1	159
42	Interactions between sediment delivery, channel change, climate change and flood risk in a temperate upland environment. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 429-446.	1.2	200
43	Form roughness and the absence of secondary flow in a large confluence-difffluence, Rio Paraná, Argentina. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 155-162.	1.2	144
44	Modelling granular sediment transport over water-worked gravels. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 1069-1076.	1.2	14
45	Morphology and flow fields of three-dimensional dunes, Rio Paraná, Argentina: Results from simultaneous multibeam echo sounding and acoustic Doppler current profiling. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	196
46	Numerical modeling of flow processes over gravelly surfaces using structured grids and a numerical porosity treatment. <i>Water Resources Research</i> , 2004, 40, .	1.7	75
47	Assessing the credibility of a series of computational fluid dynamic simulations of open channel flow. <i>Hydrological Processes</i> , 2003, 17, 1539-1560.	1.1	58
48	Flow in meander bends with recirculation at the inner bank. <i>Water Resources Research</i> , 2003, 39, .	1.7	202
49	High-resolution numerical modelling of three-dimensional flows over complex river bed topography. <i>Hydrological Processes</i> , 2002, 16, 2261-2272.	1.1	55
50	Development of a reach scale two-dimensional finite element model for floodplain sediment deposition. <i>Proceedings of the Institution of Civil Engineers Water and Maritime Engineering</i> , 2000, 142, 141-156.	0.3	3