Stuart N. Lane

List of Publications by Year
in descending order

274	15,142	13099 68	25787 108
papers	citations	h-index	g-index

337	337	337	10275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Editorial 2022: Quality not quantity. Earth Surface Processes and Landforms, 2022, 47, 3-4.	2.5	2
2	Restoring morphodynamics downstream from Alpine dams: Development of a geomorphological version of the serial discontinuity concept. Geomorphology, 2022, 402, 108131.	2.6	2
3	Hydrological Drivers of Bedload Transport in an Alpine Watershed. Water Resources Research, 2022, 58, .	4.2	9
4	High Mountain Asia hydropower systems threatened by climate-driven landscape instability. Nature Geoscience, 2022, 15, 520-530.	12.9	73
5	Centimeter-scale mapping of phototrophic biofilms in glacial forefields using visible band ratios and UAV imagery. International Journal of Remote Sensing, 2022, 43, 4723-4757.	2.9	7
6	Editorial: Equality, diversity and the challenges for ESPL. Earth Surface Processes and Landforms, 2021, 46, 3-4.	2.5	5
7	Climate Change Impacts on Sediment Yield and Debrisâ€Flow Activity in an Alpine Catchment. Journal of Geophysical Research F: Earth Surface, 2021, 126, .	2.8	39
8	Sediment yield over glacial cycles: A conceptual model. Progress in Physical Geography, 2021, 45, 842-865.	3.2	19
9	Quantifying the spatial distribution of sediment transport in an experimental gully system using the morphological method. Earth Surface Processes and Landforms, 2021, 46, 1188-1208.	2.5	11
10	Characterization of subglacial marginal channels using 3-D analysis of high-density ground-penetrating radar data. Journal of Glaciology, 2021, 67, 759-772.	2.2	14
11	Regimes of primary production and their drivers in Alpine streams. Freshwater Biology, 2021, 66, 1449-1463.	2.4	15
12	Dam builders and their works: Beaver influences on the structure and function of river corridor hydrology, geomorphology, biogeochemistry and ecosystems. Earth-Science Reviews, 2021, 218, 103623.	9.1	69
13	Daily entropy of dissolved oxygen reveals different energetic regimes and drivers among highâ€mountain stream types. Limnology and Oceanography, 2021, 66, 1594-1610.	3.1	7
14	Subglacial Channels, Climate Warming, and Increasing Frequency of Alpine Glacier Snout Collapse. Geophysical Research Letters, 2021, 48, e2021GL096031.	4.0	13
15	Downscaling Images with Trends Using Multiple-Point Statistics Simulation: An Application to Digital Elevation Models. Mathematical Geosciences, 2020, 52, 145-187.	2.4	11
16	Editorial 2020 Part II: Data from nowhere?. Earth Surface Processes and Landforms, 2020, 45, 5-10.	2.5	4
17	Changes in sediment connectivity following glacial debuttressing in an Alpine valley system. Geomorphology, 2020, 352, 106987.	2.6	33
18	Influence of Dunes on Channelâ€Scale Flow and Sediment Transport in a Sand Bed Braided River. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005571.	2.8	10

#	Article	IF	Citations
19	Combining UAV-Based SfM-MVS Photogrammetry with Conventional Monitoring to Set Environmental Flows: Modifying Dam Flushing Flows to Improve Alpine Stream Habitat. Remote Sensing, 2020, 12, 3868.	4.0	13
20	A Numerical Study of the Influence of Channel-Scale Secondary Circulation on Mixing Processes Downstream of River Junctions. Water (Switzerland), 2020, 12, 2969.	2.7	15
21	Disruption of emergency response to vulnerable populations during floods. Nature Sustainability, 2020, 3, 728-736.	23.7	42
22	Editorial 2020 Part I: A Tribute to Fiona Kirkby. Earth Surface Processes and Landforms, 2020, 45, 3-4.	2.5	0
23	Mitigating systematic error in topographic models for geomorphic change detection: accuracy, precision and considerations beyond offâ€nadir imagery. Earth Surface Processes and Landforms, 2020, 45, 2251-2271.	2.5	67
24	Connectivity as an emergent property of geomorphic systems. Earth Surface Processes and Landforms, 2019, 44, 4-26.	2.5	233
25	The sediment budget and dynamics of a deltaâ€canyonâ€lobe system over the Anthropocene timescale: The Rhone River delta, Lake Geneva (Switzerland/France). Sedimentology, 2019, 66, 838-858.	3.1	19
26	Disentangling human impact from natural controls of sediment dynamics in an Alpine catchment. Earth Surface Processes and Landforms, 2019, 44, 2885-2902.	2.5	7
27	Alpine Glacier Shrinkage Drives Shift in Dissolved Organic Carbon Export From Quasiâ€Chemostasis to Transport Limitation. Geophysical Research Letters, 2019, 46, 8872-8881.	4.0	29
28	Making stratigraphy in the Anthropocene: climate change impacts and economic conditions controlling the supply of sediment to Lake Geneva. Scientific Reports, 2019, 9, 8904.	3.3	28
29	Ecosystem engineers: Biofilms and the ontogeny of glacier floodplain ecosystems. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1390.	6.5	18
30	Hydropower Flushing Events Cause Severe Loss of Macrozoobenthos in Alpine Streams. Water Resources Research, 2019, 55, 10056-10081.	4.2	12
31	Evaluation of aDcp processing options for secondary flow identification at river junctions. Earth Surface Processes and Landforms, 2019, 44, 2903-2921.	2.5	11
32	Sub-basin and temporal variability of macroinvertebrate assemblages in Alpine streams: when and where to sample?. Hydrobiologia, 2019, 830, 179-200.	2.0	12
33	A framework for using small Unmanned Aircraft Systems (sUASs) and SfM photogrammetry to detect salmonid redds. Ecological Informatics, 2019, 53, 100976.	5.2	13
34	Climateâ€driven change in the water sourced by trees in a deâ€glaciating proglacial foreâ€field, Torres del Paine, Chile. Ecohydrology, 2019, 12, e2133.	2.4	2
35	Morphological Response of an Alpine Braided Reach to Sedimentâ€Laden Flow Events. Journal of Geophysical Research F: Earth Surface, 2019, 124, 1310-1328.	2.8	27
36	Revisiting the morphological method in twoâ€dimensions to quantify bedâ€material transport in braided rivers. Earth Surface Processes and Landforms, 2019, 44, 2251-2267.	2.5	23

#	Article	IF	Citations
37	Guidelines on the use of structureâ€fromâ€motion photogrammetry in geomorphic research. Earth Surface Processes and Landforms, 2019, 44, 2081-2084.	2.5	178
38	Decadalâ€Scale Climate Forcing of Alpine Glacial Hydrological Systems. Water Resources Research, 2019, 55, 2478-2492.	4.2	32
39	Comparison of remote sensing based approaches for mapping bathymetry of shallow, clear water rivers. Geomorphology, 2019, 333, 180-197.	2.6	88
40	Professor Jim Chandler. Photogrammetric Record, 2019, 34, 467-480.	0.4	0
41	Subglacial sediment production and snout marginal ice uplift during the late ablation season of a temperate valley glacier. Earth Surface Processes and Landforms, 2019, 44, 1117-1136.	2.5	19
42	Biogeomorphic feedbacks and the ecosystem engineering of recently deglaciated terrain. Progress in Physical Geography, 2019, 43, 24-45.	3.2	29
43	Quantification of bedform dynamics and bedload sediment flux in sandy braided rivers from airborne and satellite imagery. Earth Surface Processes and Landforms, 2019, 44, 953-972.	2.5	24
44	Editorial 2019: Is patience a virtue we are progressively losing?. Earth Surface Processes and Landforms, 2019, 44, 3-3.	2.5	0
45	Summer is in winter: Disturbance-driven shifts in macroinvertebrate communities following hydroelectric power exploitation. Science of the Total Environment, 2019, 650, 2164-2180.	8.0	19
46	Invalidation of Models and Fitness-for-Purpose: A Rejectionist Approach. Simulation Foundations, Methods and Applications, 2019, , 145-171.	0.1	17
47	Critical physical geography. Geography, 2019, 104, 49-53.	0.6	6
48	Influence of Hydrodynamic Regimes on Mixing of Waters of Confluent Rivers. Journal of Applied Mechanics and Technical Physics, 2019, 60, 1220-1227.	0.5	7
49	Towards a Genealogy of Critical Physical Geography. , 2018, , 23-47.		5
50	Combined Flow Abstraction and Climate Change Impacts on an Aggrading Alpine River. Water Resources Research, 2018, 54, 223-242.	4.2	20
51	Reduced sediment supply in a fast eroding landscape? A multi-proxy sediment budget of the upper RhÃ´ne basin, Central Alps. Sedimentary Geology, 2018, 375, 105-119.	2.1	31
52	Biotic drivers of river and floodplain geomorphology â€“ New molecular methods for assessing presentâ€day and past biota. Earth Surface Processes and Landforms, 2018, 43, 333-338.	2.5	7
53	Editorial 2018. Earth Surface Processes and Landforms, 2018, 43, 3-3.	2.5	0
54	Modeling Macroroughness Contribution to Fish Habitat Suitability Curves. Water Resources Research, 2018, 54, 9306-9320.	4.2	12

#	Article	IF	Citations
55	Introducing Critical Physical Geography. , 2018, , 3-21.		26
56	Temperature signal in suspended sediment export from an Alpine catchment. Hydrology and Earth System Sciences, 2018, 22, 509-528.	4.9	47
57	Influence of hydrodynamic regimes on mixing of waters of confluent rivers. Computational Continuum Mechanics, 2018, 11, 354-361.	0.5	3
58	Sediment export, transient landscape response and catchment-scale connectivity following rapid climate warming and Alpine glacier recession. Geomorphology, 2017, 277, 210-227.	2.6	168
59	Natural flood management. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1211.	6.5	129
60	Does the canopy mixing layer model apply to highly flexible aquatic vegetation? Insights from numerical modelling. Environmental Fluid Mechanics, 2017, 17, 277-301.	1.6	25
61	Geomorphological activity at a rock glacier front detected with a 3D density-based clustering algorithm. Geomorphology, 2017, 278, 287-297.	2.6	22
62	Slow science, the geographical expedition, and Critical Physical Geography. Canadian Geographer / Geographie Canadien, 2017, 61, 84-101.	1.5	44
63	Reflections on the IPCC and global change science: Time for a more (physical) geographical tradition. Canadian Geographer / Geographie Canadien, 2017, 61, 124-135.	1.5	13
64	Stormy geomorphology: geomorphic contributions in an age of climate extremes. Earth Surface Processes and Landforms, 2017, 42, 166-190.	2.5	94
65	Stormy geomorphology: an introduction to the Special Issue. Earth Surface Processes and Landforms, 2017, 42, 238-241.	2.5	6
66	Editorial 2017: respond, don't rebut. Earth Surface Processes and Landforms, 2017, 42, 3-4.	2.5	1
67	Archival photogrammetric analysis of riverâ€“floodplain systems using Structure from Motion (SfM) methods. Earth Surface Processes and Landforms, 2017, 42, 1274-1286.	2.5	81
68	Patchâ€scale representation of vegetation within hydraulic models. Earth Surface Processes and Landforms, 2017, 42, 699-710.	2.5	29
69	Water yield and sediment export in small, partially glaciated Alpine watersheds in a warming climate. Water Resources Research, 2016, 52, 4924-4943.	4.2	68
70	A transdisciplinary account of water research. Wiley Interdisciplinary Reviews: Water, 2016, 3, 369-389.	6.5	77
71	Response of a temperate alpine valley glacier to climate change at the decadal scale. Geografiska Annaler, Series A: Physical Geography, 2016, 98, 81-95.	1.5	14
72	Emergent geomorphicâ€“vegetation interactions on a subalpine alluvial fan. Earth Surface Processes and Landforms, 2016, 41, 72-86.	2.5	22

#	Article	IF	Citations
73	Valorising our research in all its forms. Earth Surface Processes and Landforms, 2016, 41, 3-4.	2.5	0
74	Groundwater controls on biogeomorphic succession and river channel morphodynamics. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1763-1785.	2.8	29
75	Flood hazard assessment and mapping in semi-arid piedmont areas: a case study in Beni Mellal, Morocco. Natural Hazards, 2016, 81, 481-511.	3.4	23
76	The effects of river restoration on catchment scale flood risk and flood hydrology. Earth Surface Processes and Landforms, 2016, 41, 997-1008.	2.5	130
77	The role of discharge variability in determining alluvial stratigraphy. Geology, 2016, 44, 3-6.	4.4	36
78	Ecosystem impacts of Alpine water intakes for hydropower: the challenge of sediment management. Wiley Interdisciplinary Reviews: Water, 2016, 3, 41-61.	6.5	45
79	Investigating decadalâ€scale geomorphic dynamics in an alpine mountain setting. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2155-2175.	2.8	64
80	Editorial 2015. Earth Surface Processes and Landforms, 2015, 40, 1-1.	2.5	0
81	The science and practice of river restoration. Water Resources Research, 2015, 51, 5974-5997.	4.2	442
82	The role of soil in vegetated gravelly river braid plains: more than just a passive response?. Earth Surface Processes and Landforms, 2015, 40, 143-156.	2.5	56
83	Application of archival aerial photogrammetry to quantify climate forcing of alpine landscapes. Photogrammetric Record, 2015, 30, 143-165.	0.4	42
84	Lidar measurement of surface melt for a temperate Alpine glacier at the seasonal and hourly scales. Journal of Glaciology, 2015, 61, 963-974.	2.2	47
85	Erosion by an Alpine glacier. Science, 2015, 350, 193-195.	12.6	138
86	Organic matter processing and soil evolution in a braided river system. Catena, 2015, 126, 86-97.	5.0	23
87	Investigating the geomorphological potential of freely available and accessible structureâ€fromâ€motion photogrammetry using a smartphone. Earth Surface Processes and Landforms, 2015, 40, 473-486.	2.5	233
88	Acting, predicting and intervening in a socio-hydrological world. Hydrology and Earth System Sciences, 2014, 18, 927-952.	4.9	117
89	Solution Scanning as a Key Policy Tool: Identifying Management Interventions to Help Maintain and Enhance Regulating Ecosystem Services. Ecology and Society, 2014, 19, .	2.3	66
90	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.	2.8	75

#	Article	IF	Citations
91	ESPL, Open Access and Open Review â€“ time for some reflection. Earth Surface Processes and Landforms, 2014, 39, 1-3.	2.5	3
92	The hydraulic description of vegetated river channels: the weaknesses of existing formulations and emerging alternatives. Wiley Interdisciplinary Reviews: Water, 2014, 1, 549-560.	6.5	30
93	Communicating geomorphology: global challenges for the twenty-first century. Earth Surface Processes and Landforms, 2014, 39, 476-486.	2.5	22
94	Good practice in authoring manuscripts on geomorphology. Earth Surface Processes and Landforms, 2014, 39, 126-132.	2.5	4
95	High-resolution numerical modelling of flowâ€”vegetation interactions. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 775-793.	1.7	43
96	Scales and causes of heterogeneity in bars in a large multiâ€channel river: RÃo ParanÃ¡, Argentina. Sedimentology, 2014, 61, 1055-1085.	3.1	48
97	The role of tributary relative timing and sequencing in controlling large floods. Water Resources Research, 2014, 50, 5444-5458.	4.2	44
98	EFFECTIVNESS OF SOIL AND WATER ASSESSMENT TOOL MODEL TO SIMULATE WATER FLOW IN A LARGE AGRICULTURAL COMPLEX WATERSHED: CASE OF BUYO LAKE BASIN, WEST OF COTE D'IVOIRE. Environmental Engineering and Management Journal, 2014, 13, 1735-1742.	0.6	5
99	Virtual water. Geography, 2014, 99, 51-53.	0.6	0
100	Splitting rivers at their seams: bifurcations and avulsion. Earth Surface Processes and Landforms, 2013, 38, 47-61.	2.5	204
101	Impacts of upland open drains upon runoff generation: a numerical assessment of catchmentâ€scale impacts. Hydrological Processes, 2013, 27, 1701-1726.	2.6	24
102	Testing the influence of topography and material properties on catchmentâ€scale soil moisture patterns using remotely sensed vegetation patterns in a humid temperate catchment, northern Britain. Hydrological Processes, 2013, 27, 1223-1237.	2.6	9
103	21st century climate change: where has all the geomorphology gone?. Earth Surface Processes and Landforms, 2013, 38, 106-110.	2.5	46
104	Editorial 2013. Earth Surface Processes and Landforms, 2013, 38, 1-2.	2.5	0
105	Deposits of the sandy braided South Saskatchewan River: Implications for the use of modern analogs in reconstructing channel dimensions in reservoir characterization. AAPG Bulletin, 2013, 97, 553-576.	1.5	37
106	Learning through Computer Model Improvisations. Science Technology and Human Values, 2013, 38, 678-700.	3.1	13
107	Overflowing with Issues: Following the Political Trajectories of Flooding. Environment and Planning C: Urban Analytics and City Science, 2013, 31, 603-618.	1.5	44
108	Quantification of the relation between surface morphodynamics and subsurface sedimentological product in sandy braided rivers. Sedimentology, 2013, 60, 820-839.	3.1	25

#	Article	IF	Citations
109	Explaining Rapid Transitions in the Practice of Flood Risk Management. Annals of the American Association of Geographers, 2013, 103, 330-342.	3.0	30
110	The link between land-use management and fluvial flood risk. Progress in Physical Geography, 2012, 36, 72-92.	3.2	81
111	Application of a roughnessâ€length representation to parameterize energy loss in 3â€D numerical simulations of large rivers. Water Resources Research, 2012, 48, .	4.2	14
112	A Monte Carlo approach to the inverse problem of diffuse pollution risk in agricultural catchments. Science of the Total Environment, 2012, 433, 434-449.	8.0	26
113	Geography as a shared project: Royal Geographical Society (with IBG) Medals and Awards ceremony 2012. Geographical Journal, 2012, 178, 279-286.	3.1	0
114	Modelling hydrodynamics in the Rio ParanÃ¡, Argentina: An evaluation and inter-comparison of reduced-complexity and physics based models applied to a large sand-bed river. Geomorphology, 2012, 169-170, 192-211.	2.6	30
115	RESERVOIR COMPENSATION RELEASES: IMPACT ON THE MACROINVERTEBRATE COMMUNITY OF THE DERWENT RIVER, NORTHUMBERLAND, UKâ€"A LONGITUDINAL STUDY. River Research and Applications, 2012, 28, 692-702.	1.7	23
116	Topographic forcing of flow partition and flow structures at river bifurcations. Earth Surface Processes and Landforms, 2012, 37, 666-679.	2.5	41
117	Limits on the validity of infinite length assumptions for modelling shallow landslides. Earth Surface Processes and Landforms, 2012, 37, 1158-1166.	2.5	65
118	Editorial 2012. Earth Surface Processes and Landforms, 2012, 37, 1-2.	2.5	0
119	Seeking good peer review in geomorphology. Earth Surface Processes and Landforms, 2012, 37, 3-8.	2.5	3
120	The relationship between Lamb weather types and longâ€term changes in flood frequency, River Eden, UK. International Journal of Climatology, 2012, 32, 1971-1989.	3.5	45
121	Climate change and integrated analysis of mountain geomorphological systems. Geographica Helvetica, 2012, 67, 5-14.	0.8	10
122	Explaining changing catastrophe losses. Geography, 2012, 97, 100-104.	0.6	4
123	Imagining flood futures: risk assessment and management in practice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1784-1806.	3.4	69
124	Evolution and sedimentology of a channel fill in the sandy braided South Saskatchewan River and its comparison to the deposits of an adjacent compound bar. Sedimentology, 2011, 58, 1860-1883.	3.1	99
125	Doing flood risk science differently: an experiment in radical scientific method. Transactions of the Institute of British Geographers, 2011, 36, 15-36.	2.9	290
126	Water table dynamics in undisturbed, drained and restored blanket peat. Journal of Hydrology, 2011, 402, 103-114.	5.4	119

#	Article	IF	Citations
127	Risk-based modelling of diffuse land use impacts from rural landscapes upon salmonid fry abundance. Ecological Modelling, 2011, 222, 1016-1029.	2.5	57
128	The tragedy of the reviewing commons?. Earth Surface Processes and Landforms, 2011, 36, 1-2.	2.5	3
129	An experimental study of discharge partitioning and flow structure at symmetrical bifurcations. Earth Surface Processes and Landforms, 2011, 36, 2069-2082.	2.5	52
130	<scp>F</scp>low structures at an idealized bifurcation: a numerical experiment. Earth Surface Processes and Landforms, 2011, 36, 2083-2096.	2.5	38
131	Interactions between subgridâ€scale resolution, feature representation and gridâ€scale resolution in flood inundation modelling. Hydrological Processes, 2011, 25, 36-53.	2.6	60
132	A coupled sediment routing and lateral migration model for gravelâ€bed rivers. Hydrological Processes, 2011, 25, 1887-1898.	2.6	2
133	Coproducing Flood Risk Knowledge: Redistributing Expertise in Critical â€˜Participatory Modellingâ€™. Environment and Planning A, 2011, 43, 1617-1633.	3.6	150
134	Virtual Engineering. Science and Technology Studies, 2011, 24, 3-22.	0.7	13
135	Making Mathematical Models Perform in Geographical Space(s). , 2011, , 228-245.		7
136	Editorial: Concepts and geography. Geography, 2011, 96, 2-4.	0.6	2
137	The Tipping Point: How little things can make a big difference. Geography, 2011, 96, 34-38.	0.6	1
138	Editorial 2010. Earth Surface Processes and Landforms, 2010, 35, 1-3.	2.5	3
139	Quantification of braided river channel change using archival digital image analysis. Earth Surface Processes and Landforms, 2010, 35, 971-985.	2.5	94
140	On the relationship between flow and suspended sediment transport over the crest of a sand dune, RÃƒÂo ParanÃƒÂ¡, Argentina. Sedimentology, 2010, 57, 252-272.	3.1	74
141	A method for parameterising roughness and topographic sub-grid scale effects in hydraulic modelling from LiDAR data. Hydrology and Earth System Sciences, 2010, 14, 1567-1579.	4.9	66
142	Monitoring Suspended Sediment Dynamics Using MBES. Journal of Hydraulic Engineering, 2010, 136, 45-49.	1.5	23
143	Can we distinguish flood frequency and magnitude in the sedimentological record of rivers?. Geology, 2010, 38, 579-582.	4.4	59
144	Communities of knowledge: Science and flood management in Bangladesh. Environmental Hazards, 2010, 9, 8-25.	2.5	11

#	Article	IF	Citations
145	Coherent flow structures in a depthâ€limited flow over a gravel surface: The influence of surface roughness. Journal of Geophysical Research, 2010, 115, .	3.3	43
146	Reconstruction of subgridâ€scale topographic variability and its effect upon the spatial structure of threeâ€dimensional river flow. Water Resources Research, 2010, 46, .	4.2	15
147	Using sediment impact sensors to improve the morphological sediment budget approach for estimating bedload transport rates. Geomorphology, 2010, 119, 125-134.	2.6	34
148	The potential of digital filtering of generic topographic data for geomorphological research. Earth Surface Processes and Landforms, 2009, 34, 63-74.	2.5	36
149	The spatial and temporal patterns of aggradation in a temperate, upland, gravelâ€bed river. Earth Surface Processes and Landforms, 2009, 34, 1181-1197.	2.5	34
150	Editorial: one year onÂ.Â.Â.. Earth Surface Processes and Landforms, 2009, 34, 1-2.	2.5	0
151	Suspended sediment transport and deposition over a dune: RÃo ParanÃ¡, Argentina. Earth Surface Processes and Landforms, 2009, 34, 1605-1611.	2.5	53
152	Increased temperature sensitivity of net DOC production from ombrotrophic peat due to water table drawâ€down. Global Change Biology, 2009, 15, 794-807.	9.5	79
153	Coherent flow structures in a depthâ€limited flow over a gravel surface: The role of nearâ€bed turbulence and influence of Reynolds number. Journal of Geophysical Research, 2009, 114, .	3.3	102
154	Representation of landscape hydrological connectivity using a topographically driven surface flow index. Water Resources Research, 2009, 45, .	4.2	145
155	Optimization of Stereo-matching Algorithms Using Existing DEM Data. Photogrammetric Engineering and Remote Sensing, 2009, 75, 323-333.	0.6	5
156	What makes a fish (hydrologically) happy? A case for inverse modelling. Hydrological Processes, 2008, 22, 4493-4495.	2.6	6
157	Large River Channel Confluences. , 2008, , 73-91.		34
158	Link between DOC in near surface peat and stream water in an upland catchment. Science of the Total Environment, 2008, 404, 308-315.	8.0	74
159	Causes of rapid mixing at a junction of two large rivers: RÃo ParanÃ¡ and RÃo Paraguay, Argentina. Journal of Geophysical Research, 2008, 113, .	3.3	115
160	Overland flow velocity and roughness properties in peatlands. Water Resources Research, 2008, 44, .	4.2	90
161	Reconceptualising coarse sediment delivery problems in rivers as catchment-scale and diffuse. Geomorphology, 2008, 98, 227-249.	2.6	61
162	Climate change and the summer 2007 floods in the UK. Geography, 2008, 93, 91-97.	0.6	15

#	Article	IF	Citations
163	Thinking through climate change: an introduction. Geography, 2008, 93, 4-10.	0.6	1
164	6 River processes. , 2007, , 82-99.		7
165	18 Managing the rural landscape. , 2007, , 297-319.		10
166	Investigating the Effects of DEM Error in Scaling Analysis. Photogrammetric Engineering and Remote Sensing, 2007, 73, 67-78.	0.6	16
167	The timing and magnitude of coarse sediment transport events within an upland, temperate gravel-bed river. Geomorphology, 2007, 83, 152-182.	2.6	59
168	Does hydrological connectivity improve modelling of coarse sediment delivery in upland environments?. Geomorphology, 2007, 90, 263-282.	2.6	53
169	21 Contemporary morphological change in braided gravel-bed rivers: new developments from field and laboratory studies, with particular reference to the influence of riparian vegetation. Developments in Earth Surface Processes, 2007, 11, 557-584.	2.8	21
170	Export of dissolved organic carbon from an upland peatland during storm events: Implications for flux estimates. Journal of Hydrology, 2007, 347, 438-447.	5.4	143
171	Emergence of coherent flow structures over a gravel surface: A numerical experiment. Water Resources Research, 2007, 43, .	4.2	49
172	Assessment of rainfall-runoff models based upon wavelet analysis. Hydrological Processes, 2007, 21, 586-607.	2.6	54
173	A comparison of one- and two-dimensional approaches to modelling flood inundation over complex upland floodplains. Hydrological Processes, 2007, 21, 3190-3202.	2.6	159
174	Interactions between sediment delivery, channel change, climate change and flood risk in a temperate upland environment. Earth Surface Processes and Landforms, 2007, 32, 429-446.	2.5	200
175	Form roughness and the absence of secondary flow in a large confluenceâ€“diffluence, Rio ParanÃ¡, Argentina. Earth Surface Processes and Landforms, 2007, 32, 155-162.	2.5	144
176	Surveillant Science: Challenges for the Management of Rural Environments Emerging from the New Generation Diffuse Pollution Models. Journal of Agricultural Economics, 2006, 57, 239-257.	3.5	49
177	Automated correction of surface obstruction errors in digital surface models using off-the-shelf image processing. Photogrammetric Record, 2006, 21, 373-397.	0.4	7
178	Feature based image processing methods applied to bathymetric measurements from airborne remote sensing in fluvial environments. Earth Surface Processes and Landforms, 2006, 31, 1413-1423.	2.5	119
179	Urban fluvial flood modelling using a two-dimensional diffusion-wave treatment, part 1: mesh resolution effects. Hydrological Processes, 2006, 20, 1541-1565.	2.6	288
180	Urban fluvial flood modelling using a two-dimensional diffusion-wave treatment, part 2: development of a sub-grid-scale treatment. Hydrological Processes, 2006, 20, 1567-1583.	2.6	160

#	Article	IF	Citations
181	Chapter 22 Impacts of artificial drainage of peatlands on runoff production and water quality. Developments in Earth Surface Processes, 2006, 9, 501-528.	2.8	14
182	Modelling Reach-Scale Fluvial Flows. , 2005, , 215-269.		15
183	Numerical Modelling of Floodplain Flow. , 2005, , 271-304.		8
184	Towards Risk-Based Prediction in Real-World Applications of Complex Hydraulic Models. , 2005, , 461-486.		0
185	CFD for Environmental Design and Management. , 2005, , 487-509.		0
186	Introduction to Numerical Methods for Fluid Flow. , 2005, , 147-168.		4
187	A Framework for Model Verification and Validation of CFD Schemes in Natural Open Channel Flows. , 2005, , 169-192.		21
188	Parameterisation, Validation and Uncertainty Analysis of CFD Models of Fluvial and Flood Hydraulics in the Natural Environment. , 2005, , 193-213.		11
189	Modelling Water Quality Processes in Estuaries. , 2005, , 305-328.		8
190	Introduction to Statistical Turbulence Modelling for Hydraulic Engineering Flows. , 2005, , 91-120.		9
191	Modelling Solute Transport Processes in Free Surface Flow CFD Schemes. , 2005, , 51-69.		1
192	Fundamental Equations for CFD in River Flow Simulations. , 2005, , 17-49.		3
193	Basic Equations for Sediment Transport in CFD for Fluvial Morphodynamics. , 2005, , 71-89.		38
194	Modelling of Sand Deposition in Archaeologically Significant Reaches of the Colorado River in Grand Canyon, USA. , 2005, , 357-394.		4
195	Deadening environmental space. Transactions of the Institute of British Geographers, 2005, 30, 4-7.	2.9	2
196	Being critical: a reply to Maslin and des Clers. Transactions of the Institute of British Geographers, 2005, 30, 268-270.	2.9	0
197	Influence of drought-induced acidification on the mobility of dissolved organic carbon in peat soils. Global Change Biology, 2005, 11, 791-809.	9.5	246
198	The theoretical foundations and potential for large-eddy simulation (LES) in fluvial geomorphic and sedimentological research. Earth-Science Reviews, 2005, 71, 271-304.	9.1	70

#	Article	IF	Citations
199	Texture-based image segmentation applied to the quanti?cation of superficial sand in salmonid river gravels. Earth Surface Processes and Landforms, 2005, 30, 121-127.	2.5	31
200	Roughness - time for a re-evaluation?. Earth Surface Processes and Landforms, 2005, 30, 251-253.	2.5	85
201	Remotely Sensed Topographic Data for River Channel Research: The Identification, Explanation and Management of Error. , 2005, , 113-136.		19
202	Computational Fluid Dynamics Modelling for Environmental Hydraulics. , 2005, , 1-15.		8
203	Roughness Parameterization in CFD Modelling of Gravel-Bed Rivers. , 2005, , 329-355.		9
204	Modelling Wetting and Drying Processes in Hydraulic Models. , 2005, , 121-146.		8
205	Modelling of Open Channel Flow through Vegetation. , 2005, , 395-428.		24
206	Ecohydraulics: A New Interdisciplinary Frontier for CFD. , 2005, , 429-460.		10
207	Morphology and flow fields of three-dimensional dunes, Rio ParanÃ¡, Argentina: Results from simultaneous multibeam echo sounding and acoustic Doppler current profiling. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	196
208	Automated grain size measurements from airborne remote sensing for long profile measurements of fluvial grain sizes. Water Resources Research, 2005, 41, .	4.2	93
209	Development and testing of a numerical code for treatment of complex river channel topography in three-dimensional CFD models with structured grids. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 468-480.	1.7	50
210	Rivers of dreams: on the gulf between theoretical and practical aspects of an upland river restoration. Transactions of the Institute of British Geographers, 2004, 29, 257-281.	2.9	105
211	A network-index-based version of TOPMODEL for use with high-resolution digital topographic data. Hydrological Processes, 2004, 18, 191-201.	2.6	140
212	Two dimensional diffusion wave modelling of flood inundation using a simplified channel representation. International Journal of River Basin Management, 2004, 2, 211-223.	2.7	87
213	Numerical modeling of flow processes over gravelly surfaces using structured grids and a numerical porosity treatment. Water Resources Research, 2004, 40, .	4.2	75
214	Catchment-scale mapping of surface grain size in gravel bed rivers using airborne digital imagery. Water Resources Research, 2004, 40, .	4.2	152
215	Title is missing!. Mathematical Geosciences, 2003, 35, 347-350.	0.9	2
216	Editorial: the generation of high quality topographic data for hydrology and geomorphology: new data sources, new applications and new problems. Earth Surface Processes and Landforms, 2003, 28, 229-230.	2.5	74

#	Article	IF	Citations
217	Estimation of erosion and deposition volumes in a large, gravel-bed, braided river using synoptic remote sensing. Earth Surface Processes and Landforms, 2003, 28, 249-271.	2.5	531
218	Assessing the credibility of a series of computational fluid dynamic simulations of open channel flow. Hydrological Processes, 2003, 17, 1539-1560.	2.6	58
219	Suspended sediment yield and metal contamination in a river catchment affected by El NiÃ±o events and gold mining activities: the Puyango river basin, southern Ecuador. Hydrological Processes, 2003, 17, 3101-3123.	2.6	37
220	Photogrammetric and laser altimetric reconstruction of water levels for extreme flood event analysis. Photogrammetric Record, 2003, 18, 293-307.	0.4	37
221	Cost-effective non-metric close-range digital photogrammetry and its application to a study of coarse gravel river beds. International Journal of Remote Sensing, 2003, 24, 2837-2854.	2.9	59
222	Flow in meander bends with recirculation at the inner bank. Water Resources Research, 2003, 39, .	4.2	202
223	Remote survey of large-scale braided, gravel-bed rivers using digital photogrammetry and image analysis. International Journal of Remote Sensing, 2003, 24, 795-815.	2.9	141
224	Nutrient and grazing factors in relation to phytoplankton level in a eutrophic shallow lake: the effect of low macrophyte abundance. Water Research, 2002, 36, 3593-3601.	11.3	51
225	Porous Rivers: a New Way of Conceptualising and Modelling River and Floodplain Flows?. , 2002, , 425-449.		9
226	Biological and chemical factors influencing shallow lake eutrophication: a long-term study. Science of the Total Environment, 2002, 288, 167-181.	8.0	99
227	High-resolution numerical modelling of three-dimensional flows over complex river bed topography. Hydrological Processes, 2002, 16, 2261-2272.	2.6	55
228	Throughâ€Water Close Range Digital Photogrammetry in Flume and Field Environments. Photogrammetric Record, 2002, 17, 419-439.	0.4	100
229	Environmental impacts and metal exposure of aquatic ecosystems in rivers contaminated by small scale gold mining: the Puyango River basin, southern Ecuador. Science of the Total Environment, 2001, 278, 239-261.	8.0	148
230	Evaluating interactions between soil drainage and seedling performance in a restoration of Pinus sylvestris woodland, Scotland. Global Ecology and Biogeography, 2001, 10, 147-160.	5.8	2
231	Characterization of the Structure of River-Bed Gravels Using Two-Dimensional Fractal Analysis. Mathematical Geosciences, 2001, 33, 301-330.	0.9	102
232	Measuring Flume Surfaces for Hydraulics Research Using a Kodak DCS460. Photogrammetric Record, 2001, 17, 39-61.	0.4	59
233	Constructive comments on D Massey 'Space-time, "science" and the relationship between physical geography and human geography:rsquo;. Transactions of the Institute of British Geographers, 2001, 26, 243-256.	2.9	60
234	Continuity and change in environmental systems: the case of shallow lake ecosystems. Progress in Physical Geography, 2001, 25, 178-202.	3.2	7

#	Article	IF	Citations
235	Automated extraction of grain-size data from gravel surfaces using digital image processing. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 519-529.	1.7	113
236	Monitoring River Channel and Flume Surfaces with Digital Photogrammetry. Journal of Hydraulic Engineering, 2001, 127, 871-877.	1.5	59
237	Role of Bed Discordance at Asymmetrical River Confluences. Journal of Hydraulic Engineering, 2001, 127, 351-368.	1.5	162
238	Continuity and change in environmental systems: the case of shallow lake ecosystems. Progress in Physical Geography, 2001, 25, 178-202.	3.2	2
239	The development of an automated correction ï¿½procedure for digital photogrammetry for the study of wide, shallow, gravel-bed rivers. Earth Surface Processes and Landforms, 2000, 25, 209-226.	2.5	135
240	Secondary circulation cells in river channel confluences: measurement artefacts or coherent flow structures?. Hydrological Processes, 2000, 14, 2047-2071.	2.6	90
241	Application of Digital Photogrammetry to Complex Topography for Geomorphological Research. Photogrammetric Record, 2000, 16, 793-821.	0.4	173
242	The Measurement of River Channel Morphology Using Digital Photogrammetry. Photogrammetric Record, 2000, 16, 937-961.	0.4	127
243	The Hydraulics of Open Channel Flow. An Introduction BY HUBERT CHANSONxiv + 495 pp., 24.4 Ã— 17.2 Ã— 3.0 cm, ISBN 0 340 74067 1 paperback, Â£29.99, London, UK: Arnold, 1999. Environmental Conservation, 2000, 27, 312-322.	1.3	0
244	Environmental Impact of Small-scale and Artisanal Gold Mining in Southern Ecuador. Ambio, 2000, 29, 484-491.	5.5	63
245	Numerical simulation of three-dimensional, time-averaged flow structure at river channel confluences. Water Resources Research, 2000, 36, 2731-2746.	4.2	161
246	Large Eddy Simulation of periodic flow characteristics at river channel confluences. Journal of Hydraulic Research/De Recherches Hydrauliques, 2000, 38, 207-215.	1.7	81
247	The development of an automated correction Âprocedure for digital photogrammetry for the study of wide, shallow, gravelâ€bed rivers. Earth Surface Processes and Landforms, 2000, 25, 209-226.	2.5	2
248	Time-averaged flow structure in the central region of a stream confluence: a discussion. , 1999, 24, 361-367.		20
249	The application of computational fluid dynamics to natural river channels: three-dimensional versus two-dimensional approaches. Geomorphology, 1999, 29, 1-20.	2.6	215
250	Assessment of Dem Quality for Characterizing Surface Roughness Using Close Range Digital Photogrammetry. Photogrammetric Record, 1998, 16, 271-291.	0.4	108
251	Hydraulic modelling in hydrology and geomorphology: a review of high resolution approaches. Hydrological Processes, 1998, 12, 1131-1150.	2.6	102
252	High resolution, two-dimensional spatial modelling of flow processes in a multi-thread channel. , 1998, 12, 1279-1298.		69

#	Article	IF	Citations
253	Investigation of controls on secondary circulation in a simple confluence geometry using a three-dimensional numerical model. , 1998, 12, 1371-1396.		134
254	Sensitivity of bed shear stress estimated from vertical velocity profiles: the problem of sampling resolution. , 1998, 23, 133-139.		57
255	Three-dimensional measurement of river channel flow processes using acoustic doppler velocimetry. Earth Surface Processes and Landforms, 1998, 23, 1247-1267.	2.5	128
256	Three-dimensional measurement of river channel flow processes using acoustic doppler velocimetry. Earth Surface Processes and Landforms, 1998, 23, 1247-1267.	2.5	85
257	Hydraulic modelling in hydrology and geomorphology: a review of high resolution approaches. Hydrological Processes, 1998, 12, 1131-1150.	2.6	1
258	The reconstruction of bed material yield and supply histories in gravel-bed streams. Catena, 1997, 30, 183-196.	5.0	17
259	Climate change and energy policy. Energy Policy, 1997, 25, 923-939.	8.8	14
260	Linking River Channel Form and Process: Time, Space and Causality Revisited. , 1997, 22, 249-260.		180
261	Discharge and sediment supply controls on erosion and deposition in a dynamic alluvial channel. Geomorphology, 1996, 15, 1-15.	2.6	80
262	Environmental Science for Environmental Management. Geographical Journal, 1996, 162, 100.	3.1	0
263	Scales of Variation of Suspended Sediment Concentration and Turbidity in a Glacial Meltwater Stream. Geografiska Annaler, Series A: Physical Geography, 1995, 77, 45-65.	1.5	19
264	Scales of Variation of Suspended Sediment Concentration and Turbidity in a Glacial Meltwater Stream. Geografiska Annaler, Series A: Physical Geography, 1995, 77, 45.	1.5	18
265	Morphological Estimation of the Time-Integrated Bed Load Transport Rate. Water Resources Research, 1995, 31, 761-772.	4.2	106
266	Laboratory and field assessment of an infrared turbidity probe and its response to particle size and variation in suspended sediment concentration. Hydrological Sciences Journal, 1995, 40, 771-791.	2.6	73
267	Developments in monitoring and modelling small-scale river bed topography. Earth Surface Processes and Landforms, 1994, 19, 349-368.	2.5	259
268	Application of distributed sensitivity analysis to a model of turbulent open channel flow in a natural river channel. Proceedings of the Royal Society A, 1994, 447, 49-63.	0.9	20
269	Developments in photogrammetry; the geomorphological potential. Progress in Physical Geography, 1993, 17, 306-328.	3.2	69
270	ORIC central region calculations. , 0, , .		1

#	Article	IF	Citations
271	Approaching the System-Scale Understanding of Braided River Behaviour. , 0, , 107-135.		36
272	High Resolution Remote Sensing for Understanding Instream Habitat. , 0, , 185-204.		3
273	Hydraulic modelling in hydrology and geomorphology: a review of high resolution approaches. , 0, .		1
274	In the Wake of the Tsunami: Researching Across Disciplines and Developmental Spaces in Southern Thailand. , 0, , 173-196.		2