

# Stuart N. Lane

## List of Publications by Year in descending order

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Version: 2024-02-01

274  
papers

15,142  
citations

13099

68  
h-index

25787

108  
g-index

337  
all docs

337  
docs citations

337  
times ranked

10275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of erosion and deposition volumes in a large, gravel-bed, braided river using synoptic remote sensing. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 249-271.	2.5	531
2	The science and practice of river restoration. <i>Water Resources Research</i> , 2015, 51, 5974-5997.	4.2	442
3	Doing flood risk science differently: an experiment in radical scientific method. <i>Transactions of the Institute of British Geographers</i> , 2011, 36, 15-36.	2.9	290
4	Urban fluvial flood modelling using a two-dimensional diffusion-wave treatment, part 1: mesh resolution effects. <i>Hydrological Processes</i> , 2006, 20, 1541-1565.	2.6	288
5	Developments in monitoring and modelling small-scale river bed topography. <i>Earth Surface Processes and Landforms</i> , 1994, 19, 349-368.	2.5	259
6	Influence of drought-induced acidification on the mobility of dissolved organic carbon in peat soils. <i>Global Change Biology</i> , 2005, 11, 791-809.	9.5	246
7	Investigating the geomorphological potential of freely available and accessible structure-from-motion photogrammetry using a smartphone. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 473-486.	2.5	233
8	Connectivity as an emergent property of geomorphic systems. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 4-26.	2.5	233
9	The application of computational fluid dynamics to natural river channels: three-dimensional versus two-dimensional approaches. <i>Geomorphology</i> , 1999, 29, 1-20.	2.6	215
10	Splitting rivers at their seams: bifurcations and avulsion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 47-61.	2.5	204
11	Flow in meander bends with recirculation at the inner bank. <i>Water Resources Research</i> , 2003, 39, .	4.2	202
12	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.	2.5	200
13	Morphology and flow fields of three-dimensional dunes, Rio Paran, 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
14	Linking River Channel Form and Process: Time, Space and Causality Revisited. , 1997, 22, 249-260.		180
15	Guidelines on the use of structure-from-motion photogrammetry in geomorphic research. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2081-2084.	2.5	178
16	Application of Digital Photogrammetry to Complex Topography for Geomorphological Research. <i>Photogrammetric Record</i> , 2000, 16, 793-821.	0.4	173
17	Sediment export, transient landscape response and catchment-scale connectivity following rapid climate warming and Alpine glacier recession. <i>Geomorphology</i> , 2017, 277, 210-227.	2.6	168
18	Role of Bed Discordance at Asymmetrical River Confluences. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 351-368.	1.5	162

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19	Numerical simulation of three-dimensional, time-averaged flow structure at river channel confluences. <i>Water Resources Research</i> , 2000, 36, 2731-2746.	4.2	161
20	Urban fluvial flood modelling using a two-dimensional diffusion-wave treatment, part 2: development of a sub-grid-scale treatment. <i>Hydrological Processes</i> , 2006, 20, 1567-1583.	2.6	160
21	A comparison of one- and two-dimensional approaches to modelling flood inundation over complex upland floodplains. <i>Hydrological Processes</i> , 2007, 21, 3190-3202.	2.6	159
22	Catchment-scale mapping of surface grain size in gravel bed rivers using airborne digital imagery. <i>Water Resources Research</i> , 2004, 40, .	4.2	152
23	Coproducing Flood Risk Knowledge: Redistributing Expertise in Critical "Participatory Modelling". <i>Environment and Planning A</i> , 2011, 43, 1617-1633.	3.6	150
24	Environmental impacts and metal exposure of aquatic ecosystems in rivers contaminated by small scale gold mining: the Puyango River basin, southern Ecuador. <i>Science of the Total Environment</i> , 2001, 278, 239-261.	8.0	148
25	Representation of landscape hydrological connectivity using a topographically driven surface flow index. <i>Water Resources Research</i> , 2009, 45, .	4.2	145
26	Form roughness and the absence of secondary flow in a large confluence "difffluence, Rio ParanÃ¡, Argentina. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 155-162.	2.5	144
27	Export of dissolved organic carbon from an upland peatland during storm events: Implications for flux estimates. <i>Journal of Hydrology</i> , 2007, 347, 438-447.	5.4	143
28	Remote survey of large-scale braided, gravel-bed rivers using digital photogrammetry and image analysis. <i>International Journal of Remote Sensing</i> , 2003, 24, 795-815.	2.9	141
29	A network-index-based version of TOPMODEL for use with high-resolution digital topographic data. <i>Hydrological Processes</i> , 2004, 18, 191-201.	2.6	140
30	Erosion by an Alpine glacier. <i>Science</i> , 2015, 350, 193-195.	12.6	138
31	The development of an automated correction procedure for digital photogrammetry for the study of wide, shallow, gravel-bed rivers. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 209-226.	2.5	135
32	Investigation of controls on secondary circulation in a simple confluence geometry using a three-dimensional numerical model. , 1998, 12, 1371-1396.		134
33	The effects of river restoration on catchment scale flood risk and flood hydrology. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 997-1008.	2.5	130
34	Natural flood management. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1211.	6.5	129
35	Three-dimensional measurement of river channel flow processes using acoustic doppler velocimetry. <i>Earth Surface Processes and Landforms</i> , 1998, 23, 1247-1267.	2.5	128
36	The Measurement of River Channel Morphology Using Digital Photogrammetry. <i>Photogrammetric Record</i> , 2000, 16, 937-961.	0.4	127

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37	Feature based image processing methods applied to bathymetric measurements from airborne remote sensing in fluvial environments. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1413-1423.	2.5	119
38	Water table dynamics in undisturbed, drained and restored blanket peat. <i>Journal of Hydrology</i> , 2011, 402, 103-114.	5.4	119
39	Acting, predicting and intervening in a socio-hydrological world. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 927-952.	4.9	117
40	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
41	Automated extraction of grain-size data from gravel surfaces using digital image processing. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2001, 39, 519-529.	1.7	113
42	Assessment of Dem Quality for Characterizing Surface Roughness Using Close Range Digital Photogrammetry. <i>Photogrammetric Record</i> , 1998, 16, 271-291.	0.4	108
43	Morphological Estimation of the Time-Integrated Bed Load Transport Rate. <i>Water Resources Research</i> , 1995, 31, 761-772.	4.2	106
44	Rivers of dreams: on the gulf between theoretical and practical aspects of an upland river restoration. <i>Transactions of the Institute of British Geographers</i> , 2004, 29, 257-281.	2.9	105
45	Hydraulic modelling in hydrology and geomorphology: a review of high resolution approaches. <i>Hydrological Processes</i> , 1998, 12, 1131-1150.	2.6	102
46	Characterization of the Structure of River-Bed Gravels Using Two-Dimensional Fractal Analysis. <i>Mathematical Geosciences</i> , 2001, 33, 301-330.	0.9	102
47	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
48	Through-Water Close Range Digital Photogrammetry in Flume and Field Environments. <i>Photogrammetric Record</i> , 2002, 17, 419-439.	0.4	100
49	Biological and chemical factors influencing shallow lake eutrophication: a long-term study. <i>Science of the Total Environment</i> , 2002, 288, 167-181.	8.0	99
50	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. <i>Sedimentology</i> , 2011, 58, 1860-1883.	3.1	99
51	Quantification of braided river channel change using archival digital image analysis. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 971-985.	2.5	94
52	Stormy geomorphology: geomorphic contributions in an age of climate extremes. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 166-190.	2.5	94
53	Automated grain size measurements from airborne remote sensing for long profile measurements of fluvial grain sizes. <i>Water Resources Research</i> , 2005, 41, .	4.2	93
54	Secondary circulation cells in river channel confluences: measurement artefacts or coherent flow structures?. <i>Hydrological Processes</i> , 2000, 14, 2047-2071.	2.6	90

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55	Overland flow velocity and roughness properties in peatlands. <i>Water Resources Research</i> , 2008, 44, .	4.2	90
56	Comparison of remote sensing based approaches for mapping bathymetry of shallow, clear water rivers. <i>Geomorphology</i> , 2019, 333, 180-197.	2.6	88
57	Two dimensional diffusion wave modelling of flood inundation using a simplified channel representation. <i>International Journal of River Basin Management</i> , 2004, 2, 211-223.	2.7	87
58	Roughness - time for a re-evaluation?. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 251-253.	2.5	85
59	Three-dimensional measurement of river channel flow processes using acoustic doppler velocimetry. <i>Earth Surface Processes and Landforms</i> , 1998, 23, 1247-1267.	2.5	85
60	Large Eddy Simulation of periodic flow characteristics at river channel confluences. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2000, 38, 207-215.	1.7	81
61	The link between land-use management and fluvial flood risk. <i>Progress in Physical Geography</i> , 2012, 36, 72-92.	3.2	81
62	Archival photogrammetric analysis of riverâ€floodplain systems using Structure from Motion (SfM) methods. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1274-1286.	2.5	81
63	Discharge and sediment supply controls on erosion and deposition in a dynamic alluvial channel. <i>Geomorphology</i> , 1996, 15, 1-15.	2.6	80
64	Increased temperature sensitivity of net DOC production from ombrotrophic peat due to water table drawâ€down. <i>Global Change Biology</i> , 2009, 15, 794-807.	9.5	79
65	A transdisciplinary account of water research. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 369-389.	6.5	77
66	Numerical modeling of flow processes over gravelly surfaces using structured grids and a numerical porosity treatment. <i>Water Resources Research</i> , 2004, 40, .	4.2	75
67	Quadrant/octant sequencing and the role of coherent structures in bed load sediment entrainment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 264-286.	2.8	75
68	Editorial: the generation of high quality topographic data for hydrology and geomorphology: new data sources, new applications and new problems. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 229-230.	2.5	74
69	Link between DOC in near surface peat and stream water in an upland catchment. <i>Science of the Total Environment</i> , 2008, 404, 308-315.	8.0	74
70	On the relationship between flow and suspended sediment transport over the crest of a sand dune, RÃfÃo ParanÃfÃi, Argentina. <i>Sedimentology</i> , 2010, 57, 252-272.	3.1	74
71	Laboratory and field assessment of an infrared turbidity probe and its response to particle size and variation in suspended sediment concentration. <i>Hydrological Sciences Journal</i> , 1995, 40, 771-791.	2.6	73
72	High Mountain Asia hydropower systems threatened by climate-driven landscape instability. <i>Nature Geoscience</i> , 2022, 15, 520-530.	12.9	73

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73	The theoretical foundations and potential for large-eddy simulation (LES) in fluvial geomorphic and sedimentological research. <i>Earth-Science Reviews</i> , 2005, 71, 271-304.	9.1	70
74	Developments in photogrammetry; the geomorphological potential. <i>Progress in Physical Geography</i> , 1993, 17, 306-328.	3.2	69
75	High resolution, two-dimensional spatial modelling of flow processes in a multi-thread channel. , 1998, 12, 1279-1298.		69
76	Imagining flood futures: risk assessment and management in practice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1784-1806.	3.4	69
77	Dam builders and their works: Beaver influences on the structure and function of river corridor hydrology, geomorphology, biogeochemistry and ecosystems. <i>Earth-Science Reviews</i> , 2021, 218, 103623.	9.1	69
78	Water yield and sediment export in small, partially glaciated Alpine watersheds in a warming climate. <i>Water Resources Research</i> , 2016, 52, 4924-4943.	4.2	68
79	Mitigating systematic error in topographic models for geomorphic change detection: accuracy, precision and considerations beyond off-nadir imagery. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2251-2271.	2.5	67
80	A method for parameterising roughness and topographic sub-grid scale effects in hydraulic modelling from LiDAR data. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1567-1579.	4.9	66
81	Solution Scanning as a Key Policy Tool: Identifying Management Interventions to Help Maintain and Enhance Regulating Ecosystem Services. <i>Ecology and Society</i> , 2014, 19, .	2.3	66
82	Limits on the validity of infinite length assumptions for modelling shallow landslides. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1158-1166.	2.5	65
83	Investigating decadal-scale geomorphic dynamics in an alpine mountain setting. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2155-2175.	2.8	64
84	Environmental Impact of Small-scale and Artisanal Gold Mining in Southern Ecuador. <i>Ambio</i> , 2000, 29, 484-491.	5.5	63
85	Reconceptualising coarse sediment delivery problems in rivers as catchment-scale and diffuse. <i>Geomorphology</i> , 2008, 98, 227-249.	2.6	61
86	Constructive comments on D Massey 'Space-time, "science" and the relationship between physical geography and human geography'. <i>Transactions of the Institute of British Geographers</i> , 2001, 26, 243-256.	2.9	60
87	Interactions between subgrid-scale resolution, feature representation and grid-scale resolution in flood inundation modelling. <i>Hydrological Processes</i> , 2011, 25, 36-53.	2.6	60
88	Measuring Flume Surfaces for Hydraulics Research Using a Kodak DCS460. <i>Photogrammetric Record</i> , 2001, 17, 39-61.	0.4	59
89	Monitoring River Channel and Flume Surfaces with Digital Photogrammetry. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 871-877.	1.5	59
90	Cost-effective non-metric close-range digital photogrammetry and its application to a study of coarse gravel river beds. <i>International Journal of Remote Sensing</i> , 2003, 24, 2837-2854.	2.9	59

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91	The timing and magnitude of coarse sediment transport events within an upland, temperate gravel-bed river. <i>Geomorphology</i> , 2007, 83, 152-182.	2.6	59
92	Can we distinguish flood frequency and magnitude in the sedimentological record of rivers?. <i>Geology</i> , 2010, 38, 579-582.	4.4	59
93	Assessing the credibility of a series of computational fluid dynamic simulations of open channel flow. <i>Hydrological Processes</i> , 2003, 17, 1539-1560.	2.6	58
94	Sensitivity of bed shear stress estimated from vertical velocity profiles: the problem of sampling resolution. , 1998, 23, 133-139.		57
95	Risk-based modelling of diffuse land use impacts from rural landscapes upon salmonid fry abundance. <i>Ecological Modelling</i> , 2011, 222, 1016-1029.	2.5	57
96	The role of soil in vegetated gravelly river braid plains: more than just a passive response?. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 143-156.	2.5	56
97	High-resolution numerical modelling of three-dimensional flows over complex river bed topography. <i>Hydrological Processes</i> , 2002, 16, 2261-2272.	2.6	55
98	Assessment of rainfall-runoff models based upon wavelet analysis. <i>Hydrological Processes</i> , 2007, 21, 586-607.	2.6	54
99	Does hydrological connectivity improve modelling of coarse sediment delivery in upland environments?. <i>Geomorphology</i> , 2007, 90, 263-282.	2.6	53
100	Suspended sediment transport and deposition over a dune: Río Paraná, Argentina. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1605-1611.	2.5	53
101	An experimental study of discharge partitioning and flow structure at symmetrical bifurcations. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2069-2082.	2.5	52
102	Nutrient and grazing factors in relation to phytoplankton level in a eutrophic shallow lake: the effect of low macrophyte abundance. <i>Water Research</i> , 2002, 36, 3593-3601.	11.3	51
103	Development and testing of a numerical code for treatment of complex river channel topography in three-dimensional CFD models with structured grids. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005, 43, 468-480.	1.7	50
104	Surveillant Science: Challenges for the Management of Rural Environments Emerging from the New Generation Diffuse Pollution Models. <i>Journal of Agricultural Economics</i> , 2006, 57, 239-257.	3.5	49
105	Emergence of coherent flow structures over a gravel surface: A numerical experiment. <i>Water Resources Research</i> , 2007, 43, .	4.2	49
106	Scales and causes of heterogeneity in bars in a large multi-channel river: Río Paraná, Argentina. <i>Sedimentology</i> , 2014, 61, 1055-1085.	3.1	48
107	Lidar measurement of surface melt for a temperate Alpine glacier at the seasonal and hourly scales. <i>Journal of Glaciology</i> , 2015, 61, 963-974.	2.2	47
108	Temperature signal in suspended sediment export from an Alpine catchment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 509-528.	4.9	47

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109	21st century climate change: where has all the geomorphology gone?. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 106-110.	2.5	46
110	The relationship between Lamb weather types and long-term changes in flood frequency, River Eden, UK. <i>International Journal of Climatology</i> , 2012, 32, 1971-1989.	3.5	45
111	Ecosystem impacts of Alpine water intakes for hydropower: the challenge of sediment management. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 41-61.	6.5	45
112	Overflowing with Issues: Following the Political Trajectories of Flooding. <i>Environment and Planning C: Urban Analytics and City Science</i> , 2013, 31, 603-618.	1.5	44
113	The role of tributary relative timing and sequencing in controlling large floods. <i>Water Resources Research</i> , 2014, 50, 5444-5458.	4.2	44
114	Slow science, the geographical expedition, and Critical Physical Geography. <i>Canadian Geographer / Geographie Canadien</i> , 2017, 61, 84-101.	1.5	44
115	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
116	High-resolution numerical modelling of flow-vegetation interactions. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 775-793.	1.7	43
117	Application of archival aerial photogrammetry to quantify climate forcing of alpine landscapes. <i>Photogrammetric Record</i> , 2015, 30, 143-165.	0.4	42
118	Disruption of emergency response to vulnerable populations during floods. <i>Nature Sustainability</i> , 2020, 3, 728-736.	23.7	42
119	Topographic forcing of flow partition and flow structures at river bifurcations. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 666-679.	2.5	41
120	Climate Change Impacts on Sediment Yield and Debris-Flow Activity in an Alpine Catchment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, .	2.8	39
121	Basic Equations for Sediment Transport in CFD for Fluvial Morphodynamics. , 2005, , 71-89.		38
122	Flow structures at an idealized bifurcation: a numerical experiment. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2083-2096.	2.5	38
123	Suspended sediment yield and metal contamination in a river catchment affected by El Niño events and gold mining activities: the Puyango river basin, southern Ecuador. <i>Hydrological Processes</i> , 2003, 17, 3101-3123.	2.6	37
124	Photogrammetric and laser altimetric reconstruction of water levels for extreme flood event analysis. <i>Photogrammetric Record</i> , 2003, 18, 293-307.	0.4	37
125	Deposits of the sandy braided South Saskatchewan River: Implications for the use of modern analogs in reconstructing channel dimensions in reservoir characterization. <i>AAPG Bulletin</i> , 2013, 97, 553-576.	1.5	37
126	Approaching the System-Scale Understanding of Braided River Behaviour. , 0, , 107-135.		36



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127	The potential of digital filtering of generic topographic data for geomorphological research. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 63-74.	2.5	36
128	The role of discharge variability in determining alluvial stratigraphy. <i>Geology</i> , 2016, 44, 3-6.	4.4	36
129	Large River Channel Confluences. , 2008, , 73-91.		34
130	The spatial and temporal patterns of aggradation in a temperate, upland, gravel-bed river. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1181-1197.	2.5	34
131	Using sediment impact sensors to improve the morphological sediment budget approach for estimating bedload transport rates. <i>Geomorphology</i> , 2010, 119, 125-134.	2.6	34
132	Changes in sediment connectivity following glacial debuttreasing in an Alpine valley system. <i>Geomorphology</i> , 2020, 352, 106987.	2.6	33
133	Decadal-scale Climate Forcing of Alpine Glacial Hydrological Systems. <i>Water Resources Research</i> , 2019, 55, 2478-2492.	4.2	32
134	Texture-based image segmentation applied to the quantification of superficial sand in salmonid river gravels. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 121-127.	2.5	31
135	Reduced sediment supply in a fast eroding landscape? A multi-proxy sediment budget of the upper Rhône basin, Central Alps. <i>Sedimentary Geology</i> , 2018, 375, 105-119.	2.1	31
136	Modelling hydrodynamics in the Rio Paraná, Argentina: An evaluation and inter-comparison of reduced-complexity and physics based models applied to a large sand-bed river. <i>Geomorphology</i> , 2012, 169-170, 192-211.	2.6	30
137	Explaining Rapid Transitions in the Practice of Flood Risk Management. <i>Annals of the American Association of Geographers</i> , 2013, 103, 330-342.	3.0	30
138	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.	6.5	30
139	Groundwater controls on biogeomorphic succession and river channel morphodynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1763-1785.	2.8	29
140	Patch-scale representation of vegetation within hydraulic models. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 699-710.	2.5	29
141	Alpine Glacier Shrinkage Drives Shift in Dissolved Organic Carbon Export From Quasi-Chemostasis to Transport Limitation. <i>Geophysical Research Letters</i> , 2019, 46, 8872-8881.	4.0	29
142	Biogeomorphic feedbacks and the ecosystem engineering of recently deglaciated terrain. <i>Progress in Physical Geography</i> , 2019, 43, 24-45.	3.2	29
143	Making stratigraphy in the Anthropocene: climate change impacts and economic conditions controlling the supply of sediment to Lake Geneva. <i>Scientific Reports</i> , 2019, 9, 8904.	3.3	28
144	Morphological Response of an Alpine Braided Reach to Sediment-Laden Flow Events. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1310-1328.	2.8	27

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145	A Monte Carlo approach to the inverse problem of diffuse pollution risk in agricultural catchments. <i>Science of the Total Environment</i> , 2012, 433, 434-449.	8.0	26
146	Introducing Critical Physical Geography. , 2018, , 3-21.		26
147	Quantification of the relation between surface morphodynamics and subsurface sedimentological product in sandy braided rivers. <i>Sedimentology</i> , 2013, 60, 820-839.	3.1	25
148	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.	1.6	25
149	Modelling of Open Channel Flow through Vegetation. , 2005, , 395-428.		24
150	Impacts of upland open drains upon runoff generation: a numerical assessment of catchmentâ€scale impacts. <i>Hydrological Processes</i> , 2013, 27, 1701-1726.	2.6	24
151	Quantification of bedform dynamics and bedload sediment flux in sandy braided rivers from airborne and satellite imagery. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 953-972.	2.5	24
152	Monitoring Suspended Sediment Dynamics Using MBES. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 45-49.	1.5	23
153	RESERVOIR COMPENSATION RELEASES: IMPACT ON THE MACROINVERTEBRATE COMMUNITY OF THE DERWENT RIVER, NORTHUMBERLAND, UKâ€A LONGITUDINAL STUDY. <i>River Research and Applications</i> , 2012, 28, 692-702.	1.7	23
154	Organic matter processing and soil evolution in a braided river system. <i>Catena</i> , 2015, 126, 86-97.	5.0	23
155	Flood hazard assessment and mapping in semi-arid piedmont areas: a case study in Beni Mellal, Morocco. <i>Natural Hazards</i> , 2016, 81, 481-511.	3.4	23
156	Revisiting the morphological method in twoâ€dimensions to quantify bedâ€material transport in braided rivers. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2251-2267.	2.5	23
157	Communicating geomorphology: global challenges for the twenty-first century. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 476-486.	2.5	22
158	Emergent geomorphicâ€vegetation interactions on a subalpine alluvial fan. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 72-86.	2.5	22
159	Geomorphological activity at a rock glacier front detected with a 3D density-based clustering algorithm. <i>Geomorphology</i> , 2017, 278, 287-297.	2.6	22
160	A Framework for Model Verification and Validation of CFD Schemes in Natural Open Channel Flows. , 2005, , 169-192.		21
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