

Stephen D Darby

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

4,018
citations

34
h-index

62
g-index

116
ext. papers

4,851
ext. citations

6.2
avg, IF

5.54
L-index

#	Paper	IF	Citations
92	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. <i>Marine Geology</i> , 2014 , 352, 451-468	3.3	432
91	Bank and near-bank processes in an incised channel. <i>Geomorphology</i> , 2000 , 35, 193-217	4.3	317
90	A review of techniques available for delimiting the erodible river corridor: a sustainable approach to managing bank erosion. <i>River Research and Applications</i> , 2005 , 21, 773-789	2.3	238
89	Accounting for uncertainty in DEMs from repeat topographic surveys: improved sediment budgets. <i>Earth Surface Processes and Landforms</i> , 2009 , 35, n/a-n/a	3.7	237
88	Numerical simulation of bank erosion and channel migration in meandering rivers. <i>Water Resources Research</i> , 2002 , 38, 2-1-2-21	5.4	199
87	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. <i>Nature</i> , 2016 , 539, 276-279	50.4	146
86	Numerical simulation of hydrodynamics and bank erosion in a river bend. <i>Water Resources Research</i> , 2008 , 44,	5.4	131
85	The influence of vegetation and organic debris on flood-plain sediment dynamics: case study of a low-order stream in the New Forest, England. <i>Geomorphology</i> , 2003 , 51, 61-80	4.3	128
84	Morphodynamic signatures of braiding mechanisms as expressed through change in sediment storage in a gravel-bed river. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 759-779	3.8	118
83	Coupled simulations of fluvial erosion and mass wasting for cohesive river banks. <i>Journal of Geophysical Research</i> , 2007 , 112,		106
82	Linking geomorphic changes to salmonid habitat at a scale relevant to fish. <i>River Research and Applications</i> , 2010 , 26, 469-486	2.3	81
81	Evaluating sustainable adaptation strategies for vulnerable mega-deltas using system dynamics modelling: Rice agriculture in the Mekong Delta's An Giang Province, Vietnam. <i>Science of the Total Environment</i> , 2016 , 559, 326-338	10.2	76
80	A new model to analyse the impact of woody riparian vegetation on the geotechnical stability of riverbanks. <i>Earth Surface Processes and Landforms</i> , 2007 , 32, 2185-2198	3.7	75
79	Fluvial sediment transfer in the Changjiang (Yangtze) river-estuary depositional system. <i>Journal of Hydrology</i> , 2018 , 566, 719-734	6	74
78	River bank instability from unsustainable sand mining in the lower Mekong River. <i>Nature Sustainability</i> , 2020 , 3, 217-225	22.1	69
77	Stormy geomorphology: geomorphic contributions in an age of climate extremes. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 166-190	3.7	68
76	9 Modelling river-bank-erosion processes and mass failure mechanisms: progress towards fully coupled simulations. <i>Developments in Earth Surface Processes</i> , 2007 , 213-239	2.8	65

75	Modulation of Extreme Flood Levels by Impoundment Significantly Offset by Floodplain Loss Downstream of the Three Gorges Dam. <i>Geophysical Research Letters</i> , 2018 , 45, 3147-3155	4.9	60
74	Monitoring and numerical modelling of riverbank erosion processes: a case study along the Cecina River (central Italy). <i>Earth Surface Processes and Landforms</i> , 2009 , 34, 530-546	3.7	60
73	Projections of declining fluvial sediment delivery to major deltas worldwide in response to climate change and anthropogenic stress. <i>Environmental Research Letters</i> , 2019 , 14, 084034	6.2	57
72	Computer program for stability analysis of steep, cohesive riverbanks. <i>Earth Surface Processes and Landforms</i> , 2000 , 25, 175-190	3.7	56
71	Modulation of outer bank erosion by slump blocks: Disentangling the protective and destructive role of failed material on the three-dimensional flow structure. <i>Geophysical Research Letters</i> , 2015 , 42, 10,663-10,670	4.9	55
70	Effectiveness of grade-control structures in reducing erosion along incised river channels: the case of Hotophia Creek, Mississippi. <i>Geomorphology</i> , 2002 , 42, 229-254	4.3	50
69	Recent sediment flux to the Ganges-Brahmaputra-Meghna delta system. <i>Science of the Total Environment</i> , 2018 , 643, 1054-1064	10.2	49
68	Adaptation and development trade-offs: fluvial sediment deposition and the sustainability of rice-cropping in An Giang Province, Mekong Delta. <i>Climatic Change</i> , 2016 , 137, 593-608	4.5	48
67	A physically based model to predict hydraulic erosion of fine-grained riverbanks: The role of form roughness in limiting erosion. <i>Journal of Geophysical Research</i> , 2010 , 115,		44
66	Assessing the characteristics and drivers of compound flooding events around the UK coast. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 3117-3139	5.5	43
65	Estimating aerodynamic roughness over complex surface terrain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,948-12,961	4.4	42
64	A model of equilibrium bed topography for meander bends with erodible banks. <i>Earth Surface Processes and Landforms</i> , 2002 , 27, 1057-1085	3.7	40
63	The Scope of Uncertainties in River Restoration		39
62	First direct measurements of hydraulic jumps in an active submarine density current. <i>Geophysical Research Letters</i> , 2013 , 40, 5904-5908	4.9	38
61	Decoding the drivers of bank erosion on the Mekong river: The roles of the Asian monsoon, tropical storms, and snowmelt. <i>Water Resources Research</i> , 2013 , 49, 2146-2163	5.4	37
60	Modelling the response of soft cliffs to climate change: A statistical, process-response model using accumulated excess energy. <i>Geomorphology</i> , 2013 , 187, 108-121	4.3	36
59	The influence of flow discharge variations on the morphodynamics of a diffluence-confluence unit on a large river. <i>Earth Surface Processes and Landforms</i> , 2018 , 43, 349-362	3.7	34
58	Methods for Evaluating the Geomorphological Performance of Naturalized Rivers: Examples from the Chicago Metropolitan Area		34

57	An empirical conceptual gully evolution model for channelled sea cliffs. <i>Geomorphology</i> , 2008 , 102, 419-434	4.3	33
56	Does scientific conjecture accurately describe restoration practice? Insight from an international river restoration survey. <i>Area</i> , 2006 , 38, 128-142	1.7	30
55	A first look at the influence of anthropogenic climate change on the future delivery of fluvial sediment to the Ganges-Brahmaputra-Meghna delta. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 1587-600	4.3	29
54	BANK STABILITY ANALYSIS FOR PREDICTING REACH SCALE LAND LOSS AND SEDIMENT YIELD1. <i>Journal of the American Water Resources Association</i> , 2003 , 39, 897-909	2.1	29
53	Complex spatial feedbacks of tephra redistribution, ice melt and surface roughness modulate ablation on tephra covered glaciers. <i>Earth Surface Processes and Landforms</i> , 2013 , 38, 95-102	3.7	28
52	Conceptual and Mathematical Modelling in River Restoration: Do We Have Unreasonable Confidence? 61-78		28
51	Water quality modelling of the Mekong River basin: Climate change and socioeconomics drive flow and nutrient flux changes to the Mekong Delta. <i>Science of the Total Environment</i> , 2019 , 673, 218-229	10.2	27
50	Driven around the bend: Spatial evolution and controls on the orientation of helical bend flow in a natural submarine gravity current. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 898-913	3.3	26
49	Extreme flood-driven fluvial bank erosion and sediment loads: direct process measurements using integrated Mobile Laser Scanning (MLS) and hydro-acoustic techniques. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 334-346	3.7	26
48	Superelevation and overspill control secondary flow dynamics in submarine channels. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 3895-3915	3.3	26
47	Projections of historical and 21st century fluvial sediment delivery to the Ganges-Brahmaputra-Meghna, Mahanadi, and Volta deltas. <i>Science of the Total Environment</i> , 2018 , 642, 105-116	10.2	25
46	The critical role of stratification in submarine channels: Implications for channelization and long runoff of flows. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 2620-2641	3.3	21
45	Sources of Uncertainty in River Restoration Research 15-19		21
44	Impact of dams and climate change on suspended sediment flux to the Mekong delta. <i>Science of the Total Environment</i> , 2021 , 755, 142468	10.2	21
43	Modelling the equilibrium bed topography of submarine meanders that exhibit reversed secondary flows. <i>Geomorphology</i> , 2012 , 163-164, 99-109	4.3	19
42	Modelling width adjustment in straight alluvial channels. <i>Hydrological Processes</i> , 1998 , 12, 1299-1321	3.3	18
41	A River Runs Through It: Morphological and Landowner Sensitivities Along the Upper Missouri River, Montana, USA. <i>Transactions of the Institute of British Geographers</i> , 2000 , 25, 91-107	2.5	18
40	A self-limiting bank erosion mechanism? inferring temporal variations in bank form and skin drag from high resolution topographic data. <i>Earth Surface Processes and Landforms</i> , 2015 , 40, 1600-1615	3.7	17

39	Impacts of natural and human drivers on the multi-decadal morphological evolution of tidally-influenced deltas. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180396	2.4	15
38	Effects of Holocene climate and sea-level changes on coastal gully evolution: insights from numerical modelling. <i>Earth Surface Processes and Landforms</i> , 2009 , 34, 1878-1893	3.7	14
37	Self-sharpening induces jet-like structure in seafloor gravity currents. <i>Nature Communications</i> , 2019 , 10, 1381	17.4	11
36	Reappraising the geomorphology-ecology link. <i>Earth Surface Processes and Landforms</i> , 2010 , 35, 368-371	3.7	11
35	Planning River Restoration Projects: Social and Cultural Dimensions	41-60	11
34	Integrating Suspended Sediment Flux in Large Alluvial River Channels: Application of a Synoptic Rouse-Based Model to the Irrawaddy and Salween Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005554	3.8	11
33	Influence of Coriolis Force Upon Bottom Boundary Layers in a Large-Scale Gravity Current Experiment: Implications for Evolution of Sinuous Deep-Water Channel Systems. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015284	3.3	10
32	Refined Hydraulic Geometry Data for British Gravel-Bed Rivers. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 60-64	1.8	10
31	Establishing sustainable sediment budgets is critical for climate-resilient mega-deltas. <i>Environmental Research Letters</i> , 2021 , 16, 064089	6.2	9
30	Streamflow prediction in geopolitically ungauged basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , 2020 , 588, 125016	6	5
29	Stormy geomorphology: an introduction to the Special Issue. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 238-241	3.7	5
28	Measures of Success: Uncertainty and Defining the Outcomes of River Restoration Schemes	187-208	5
27	Uncertainty and the Sustainable Management of Restored Rivers	287-301	5
26	Landward shifts of the maximum accretion zone in the tidal reach of the Changjiang estuary following construction of the Three Gorges Dam. <i>Journal of Hydrology</i> , 2021 , 592, 125789	6	5
25	Landscapes on the edge: examining the role of climatic interactions in shaping coastal watersheds using a coastal terrestrial landscape evolution model. <i>Earth Surface Processes and Landforms</i> , 2015 , 40, 313-325	3.7	4
24	Uncertain restoration of gravel-bed rivers and the role of geomorphology. <i>Developments in Earth Surface Processes</i> , 2007 , 11, 739-760	2.8	4
23	Fluvial Sediment Supply and Relative Sea-Level Rise	2020 , 103-126	4
22	A Sustainable Future Supply of Fluvial Sediment for the Ganges-Brahmaputra Delta	2018 , 277-291	4

21	Regional analysis of multivariate compound coastal flooding potential around Europe and environs: sensitivity analysis and spatial patterns. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 2021-2040	3.9	4
20	Mean flow and turbulence structure over exposed roots on a forested floodplain: Insights from a controlled laboratory experiment. <i>PLoS ONE</i> , 2020 , 15, e0229306	3.7	3
19	Uncertainty in Riparian and Floodplain Restoration		3
18	Models in Fluvial Geomorphology		3
17	Drainage and erosion of Cambodia's great lake in the middle-late Holocene: The combined role of climatic drying, base-level fall and river capture. <i>Quaternary Science Reviews</i> , 2020 , 236, 106265	3.9	2
16	Comment on A simple model for vertical profiles of velocity and suspended sediment concentration in straight and curved submarine channels by M. Bolla Pittaluga and J. Imran. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 2070-2073	3.8	2
15	Uncertainty and the Management of Restoration Projects: The Construction and Early Post-Construction Phases		2
14	The Sustainability of Restored Rivers: Catchment-Scale Perspectives on Long Term Response		2
13	Hydrological and Hydraulic Aspects of Restoration Uncertainty for Ecological Purposes		2
12	Stakeholder Expectations of Future Policy Implementation Compared to Formal Policy Trajectories: Scenarios for Agricultural Food Systems in the Mekong Delta. <i>Sustainability</i> , 2021 , 13, 5534	3.6	2
11	Dynamics of salt intrusion in the Mekong Delta; results of field observations and integrated coastal-inland modelling		2
10	Save the Mekong Delta from drowning.. <i>Science</i> , 2022 , 376, 583-585	3.3	2
9	Uncertainty in River Restoration		1
8	Uncertainty Surrounding the Ecological Targets and Response of River and Stream Restoration		1
7	Partitioning riverine sulfate sources using oxygen and sulfur isotopes: Implications for carbon budgets of large rivers. <i>Earth and Planetary Science Letters</i> , 2021 , 567, 116957	5.3	1
6	Computer program for stability analysis of steep, cohesive riverbanks		1
5	Assessing social vulnerability to riverbank erosion across the Vietnamese Mekong Delta. <i>International Journal of River Basin Management</i> , 1-12	1.7	1
4	Sustainability of the coastal zone of the Ganges-Brahmaputra-Meghna delta under climatic and anthropogenic stresses.. <i>Science of the Total Environment</i> , 2022 , 154547	10.2	1

- 3 Models in fluvial geomorphology **2016**, 381-411 o
- 2 Dynamics of salt intrusion in the Mekong Delta: results of field observations and integrated coastal/inland modelling. *Earth Surface Dynamics*, **2021**, 9, 953-976 3.8 o
- 1 Constructing Restoration Schemes: Uncertainty, Challenges and Opportunities 165-186