

# Stephen D Darby

## List of Publications by Year in Descending Order

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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	Sustainability of the coastal zone of the Ganges-Brahmaputra-Meghna delta under climatic and anthropogenic stresses.. <i>Science of the Total Environment</i> , <b>2022</b> , 154547	10.2	1
91	Save the Mekong Delta from drowning.. <i>Science</i> , <b>2022</b> , 376, 583-585	33.3	2
90	Stakeholder Expectations of Future Policy Implementation Compared to Formal Policy Trajectories: Scenarios for Agricultural Food Systems in the Mekong Delta. <i>Sustainability</i> , <b>2021</b> , 13, 5534	3.6	2
89	Establishing sustainable sediment budgets is critical for climate-resilient mega-deltas. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 064089	6.2	9
88	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> , <b>2021</b> , 21, 2021-2040	3.9	4
87	Impact of dams and climate change on suspended sediment flux to the Mekong delta. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 142468	10.2	21
86	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> , <b>2021</b> , 592, 125789	6	5
85	Partitioning riverine sulfate sources using oxygen and sulfur isotopes: Implications for carbon budgets of large rivers. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 567, 116957	5.3	1
84	Dynamics of salt intrusion in the Mekong Delta: results of field observations and integrated coastal-inland modelling. <i>Earth Surface Dynamics</i> , <b>2021</b> , 9, 953-976	3.8	0
83	Mean flow and turbulence structure over exposed roots on a forested floodplain: Insights from a controlled laboratory experiment. <i>PLoS ONE</i> , <b>2020</b> , 15, e0229306	3.7	3
82	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> , <b>2020</b> , 125, e2019JC015284	3.3	10
81	River bank instability from unsustainable sand mining in the lower Mekong River. <i>Nature Sustainability</i> , <b>2020</b> , 3, 217-225	22.1	69
80	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> , <b>2020</b> , 236, 106265	3.9	2
79	Streamflow prediction in geopolitically ungauged basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , <b>2020</b> , 588, 125016	6	5
78	Fluvial Sediment Supply and Relative Sea-Level Rise <b>2020</b> , 103-126		4
77	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> , <b>2020</b> , 125, e2020JF005554	3.8	11
76	Projections of declining fluvial sediment delivery to major deltas worldwide in response to climate change and anthropogenic stress. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 084034	6.2	57

75	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> , <b>2019</b> , 673, 218-229	10.2	27
74	Self-sharpening induces jet-like structure in seafloor gravity currents. <i>Nature Communications</i> , <b>2019</b> , 10, 1381	17.4	11
73	Assessing the characteristics and drivers of compound flooding events around the UK coast. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 3117-3139	5.5	43
72	Modulation of Extreme Flood Levels by Impoundment Significantly Offset by Floodplain Loss Downstream of the Three Gorges Dam. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3147-3155	4.9	60
71	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> , <b>2018</b> , 43, 349-362	3.7	34
70	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> , <b>2018</b> , 642, 105-116	10.2	25
69	A Sustainable Future Supply of Fluvial Sediment for the Ganges-Brahmaputra Delta <b>2018</b> , 277-291		4
68	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> , <b>2018</b> , 474, 20180396	2.4	15
67	Fluvial sediment transfer in the Changjiang (Yangtze) river-estuary depositional system. <i>Journal of Hydrology</i> , <b>2018</b> , 566, 719-734	6	74
66	Recent sediment flux to the Ganges-Brahmaputra-Meghna delta system. <i>Science of the Total Environment</i> , <b>2018</b> , 643, 1054-1064	10.2	49
65	Stormy geomorphology: geomorphic contributions in an age of climate extremes. <i>Earth Surface Processes and Landforms</i> , <b>2017</b> , 42, 166-190	3.7	68
64	Stormy geomorphology: an introduction to the Special Issue. <i>Earth Surface Processes and Landforms</i> , <b>2017</b> , 42, 238-241	3.7	5
63	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> , <b>2017</b> , 42, 334-346	3.7	26
62	Models in fluvial geomorphology <b>2016</b> , 381-411		0
61	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. <i>Nature</i> , <b>2016</b> , 539, 276-279	50.4	146
60	Adaptation and development trade-offs: fluvial sediment deposition and the sustainability of rice-cropping in An Giang Province, Mekong Delta. <i>Climatic Change</i> , <b>2016</b> , 137, 593-608	4.5	48
59	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> , <b>2016</b> , 559, 326-338	10.2	76
58	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> , <b>2015</b> , 40, 313-325	3.7	4

57	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> , <b>2015</b> , 17, 1587-600	4.3	29
56	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> , <b>2015</b> , 42, 10,663-10,670	4.9	55
55	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> , <b>2015</b> , 40, 1600-1615	3.7	17
54	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. <i>Marine Geology</i> , <b>2014</b> , 352, 451-468	3.3	43 <sup>2</sup>
53	Comment on <a href="#">A simple model for vertical profiles of velocity and suspended sediment concentration in straight and curved submarine channels</a> by M. Bolla Pittaluga and J. Imran. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2014</b> , 119, 2070-2073	3.8	2
52	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> , <b>2014</b> , 119, 898-913	3.3	26
51	The critical role of stratification in submarine channels: Implications for channelization and long runoff of flows. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 2620-2641	3.3	21
50	Complex spatial feedbacks of tephra redistribution, ice melt and surface roughness modulate ablation on tephra covered glaciers. <i>Earth Surface Processes and Landforms</i> , <b>2013</b> , 38, 95-102	3.7	28
49	Modelling the response of soft cliffs to climate change: A statistical, process-response model using accumulated excess energy. <i>Geomorphology</i> , <b>2013</b> , 187, 108-121	4.3	36
48	First direct measurements of hydraulic jumps in an active submarine density current. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5904-5908	4.9	38
47	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> , <b>2013</b> , 49, 2146-2163	5.4	37
46	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> , <b>2013</b> , 118, 759-779	3.8	118
45	Estimating aerodynamic roughness over complex surface terrain. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 12,948-12,961	4.4	42
44	Superelevation and overflow control secondary flow dynamics in submarine channels. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 3895-3915	3.3	26
43	Modelling the equilibrium bed topography of submarine meanders that exhibit reversed secondary flows. <i>Geomorphology</i> , <b>2012</b> , 163-164, 99-109	4.3	19
42	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> , <b>2010</b> , 115,		44
41	Reappraising the geomorphology-ecology link. <i>Earth Surface Processes and Landforms</i> , <b>2010</b> , 35, 368-371	3.7	11
40	Linking geomorphic changes to salmonid habitat at a scale relevant to fish. <i>River Research and Applications</i> , <b>2010</b> , 26, 469-486	2.3	81

39	Monitoring and numerical modelling of riverbank erosion processes: a case study along the Cecina River (central Italy). <i>Earth Surface Processes and Landforms</i> , <b>2009</b> , 34, 530-546	3.7	60
38	Effects of Holocene climate and sea-level changes on coastal gully evolution: insights from numerical modelling. <i>Earth Surface Processes and Landforms</i> , <b>2009</b> , 34, 1878-1893	3.7	14
37	Accounting for uncertainty in DEMs from repeat topographic surveys: improved sediment budgets. <i>Earth Surface Processes and Landforms</i> , <b>2009</b> , 35, n/a-n/a	3.7	237
36	An empirical/conceptual gully evolution model for channelled sea cliffs. <i>Geomorphology</i> , <b>2008</b> , 102, 419-434	4.4	33
35	Numerical simulation of hydrodynamics and bank erosion in a river bend. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	131
34	Coupled simulations of fluvial erosion and mass wasting for cohesive river banks. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		106
33	9 Modelling river-bank-erosion processes and mass failure mechanisms: progress towards fully coupled simulations. <i>Developments in Earth Surface Processes</i> , <b>2007</b> , 213-239	2.8	65
32	A new model to analyse the impact of woody riparian vegetation on the geotechnical stability of riverbanks. <i>Earth Surface Processes and Landforms</i> , <b>2007</b> , 32, 2185-2198	3.7	75
31	28 Uncertain restoration of gravel-bed rivers and the role of geomorphology. <i>Developments in Earth Surface Processes</i> , <b>2007</b> , 11, 739-760	2.8	4
30	Does scientific conjecture accurately describe restoration practice? Insight from an international river restoration survey. <i>Area</i> , <b>2006</b> , 38, 128-142	1.7	30
29	A review of techniques available for delimiting the erodible river corridor: a sustainable approach to managing bank erosion. <i>River Research and Applications</i> , <b>2005</b> , 21, 773-789	2.3	238
28	Refined Hydraulic Geometry Data for British Gravel-Bed Rivers. <i>Journal of Hydraulic Engineering</i> , <b>2005</b> , 131, 60-64	1.8	10
27	Models in Fluvial Geomorphology <b>2005</b> , 501-537		3
26	BANK STABILITY ANALYSIS FOR PREDICTING REACH SCALE LAND LOSS AND SEDIMENT YIELD1. <i>Journal of the American Water Resources Association</i> , <b>2003</b> , 39, 897-909	2.1	29
25	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> , <b>2003</b> , 51, 61-80	4.3	128
24	A model of equilibrium bed topography for meander bends with erodible banks. <i>Earth Surface Processes and Landforms</i> , <b>2002</b> , 27, 1057-1085	3.7	40
23	Numerical simulation of bank erosion and channel migration in meandering rivers. <i>Water Resources Research</i> , <b>2002</b> , 38, 2-1-2-21	5.4	199
22	Effectiveness of grade-control structures in reducing erosion along incised river channels: the case of Hotophia Creek, Mississippi. <i>Geomorphology</i> , <b>2002</b> , 42, 229-254	4.3	50

21	Computer program for stability analysis of steep, cohesive riverbanks. <i>Earth Surface Processes and Landforms</i> , <b>2000</b> , 25, 175-190	3.7	56
20	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> , <b>2000</b> , 25, 91-107	2.5	18
19	Bank and near-bank processes in an incised channel. <i>Geomorphology</i> , <b>2000</b> , 35, 193-217	4.3	317
18	Computer program for stability analysis of steep, cohesive riverbanks <b>2000</b> , 25, 175		1
17	Modelling width adjustment in straight alluvial channels. <i>Hydrological Processes</i> , <b>1998</b> , 12, 1299-1321	3.3	18
16	Uncertainty in River Restoration1-13		1
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2 Dynamics of salt intrusion in the Mekong Delta; results of field observations and integrated coastal-inland modelling 2

1 Assessing social vulnerability to riverbank erosion across the Vietnamese Mekong Delta. *International Journal of River Basin Management*, 1-12

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