

David A Sear

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

7,405
citations

87401

40
h-index

68831

81
g-index

109
all docs

109
docs citations

109
times ranked

6925
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a mid-Holocene drowning from the Atacama Desert coast of Chile. <i>Journal of Archaeological Science</i> , 2022, 140, 105565.	1.2	1
2	Contrasting Common Era climate and hydrology sensitivities from paired lake sediment dinosterol hydrogen isotope records in the South Pacific Convergence Zone. <i>Quaternary Science Reviews</i> , 2022, 281, 107421.	1.4	4
3	Untangling the controls on bedload transport in a wood-loaded river with RFID tracers and linear mixed modelling. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2283-2298.	1.2	2
4	Climate and human exploitation have regulated Atlantic salmon populations in the River Spey, Scotland, over the last 2000 years. <i>Holocene</i> , 2022, 32, 780-793.	0.9	2
5	Leaf Wax Hydrogen Isotopes as a Hydroclimate Proxy in the Tropical Pacific. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005891.	1.3	16
6	Sediment and Nutrient Retention in Ponds on an Agricultural Stream: Evaluating Effectiveness for Diffuse Pollution Mitigation. <i>Water (Switzerland)</i> , 2021, 13, 1640.	1.2	10
7	Exploring the Capability of Natural Flood Management Approaches in Groundwater-Dominated Chalk Streams. <i>Water (Switzerland)</i> , 2021, 13, 2212.	1.2	4
8	The scope for a system-based approach to determine fine sediment targets for chalk streams. <i>Catena</i> , 2021, 206, 105541.	2.2	7
9	Human occupation and ecosystem change on Upolu (Samoa) during the Holocene. <i>Journal of Biogeography</i> , 2020, 47, 600-614.	1.4	18
10	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.	1.1	3
11	Human settlement of East Polynesia earlier, incremental, and coincident with prolonged South Pacific drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8813-8819.	3.3	54
12	X-ray computed tomography reveals that grain protrusion controls critical shear stress for entrainment of fluvial gravels. <i>Geology</i> , 2020, 48, 149-153.	2.0	15
13	Development of a vector-based 3D grain entrainment model with application to X-ray computed tomography scanned riverbed sediment. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 3057-3077.	1.2	7
14	Using lake sediment archives to improve understanding of flood magnitude and frequency: Recent extreme flooding in northwest UK. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2366-2376.	1.2	22
15	Does variation in egg structure among five populations of Atlantic salmon (<i>Salmo salar</i>) influence their survival in low oxygen conditions?. <i>Royal Society Open Science</i> , 2019, 6, 181020.	1.1	4
16	Reconstructing precipitation in the tropical South Pacific from dinosterol 2H/1H ratios in lake sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 190-206.	1.6	14
17	A conceptual model of riparian forest restoration for natural flood management. <i>Water and Environment Journal</i> , 2019, 33, 329-341.	1.0	16
18	Natural vs anthropogenic streams in Europe: History, ecology and implications for restoration, river-rewilding and riverine ecosystem services. <i>Earth-Science Reviews</i> , 2018, 180, 185-205.	4.0	172

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19	Small Water Bodies in Great Britain and Ireland: Ecosystem function, human-generated degradation, and options for restorative action. <i>Science of the Total Environment</i> , 2018, 645, 1598-1616.	3.9	87
20	A restatement of the natural science evidence concerning catchment-based "natural" flood management in the UK. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160706.	1.0	184
21	The magnitude and significance of sediment oxygen demand in gravel spawning beds for the incubation of salmonid embryos. <i>River Research and Applications</i> , 2017, 33, 1642-1654.	0.7	16
22	Can macroinvertebrate biological traits indicate fine-grained sediment conditions in streams?. <i>River Research and Applications</i> , 2017, 33, 1606-1617.	0.7	34
23	Sediment-associated organic matter sources and sediment oxygen demand in a Special Area of Conservation (SAC): A case study of the River Axe, UK. <i>River Research and Applications</i> , 2017, 33, 1539-1552.	0.7	11
24	Interannual variability in the effects of physical habitat and parentage on Chinook salmon egg-to-fry survival. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 1047-1059.	0.7	11
25	The effects of oxygen depletion due to upwelling groundwater on the posthatch fitness of Atlantic salmon (<i>Salmo salar</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 1830-1840.	0.7	10
26	The effects of river restoration on catchment scale flood risk and flood hydrology. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 997-1008.	1.2	130
27	Understanding the controls on deposited fine sediment in the streams of agricultural catchments. <i>Science of the Total Environment</i> , 2016, 547, 366-381.	3.9	83
28	Mapping habitat indices across river networks using spatial statistical modelling of River Habitat Survey data. <i>Ecological Indicators</i> , 2016, 66, 20-29.	2.6	22
29	Does fine sediment source as well as quantity affect salmonid embryo mortality and development?. <i>Science of the Total Environment</i> , 2016, 541, 957-968.	3.9	44
30	Sensitivity of a hydraulic model to channel erosion uncertainty during extreme flooding. <i>Hydrological Processes</i> , 2015, 29, 261-279.	1.1	26
31	Development of a biotic index using stream macroinvertebrates to assess stress from deposited fine sediment. <i>Freshwater Biology</i> , 2015, 60, 2019-2036.	1.2	53
32	Assessment of a rapid method for quantitative reach-scale estimates of deposited fine sediment in rivers. <i>Geomorphology</i> , 2015, 230, 37-50.	1.1	47
33	The influence of geomorphology on large wood dynamics in a low gradient headwater stream. <i>Water Resources Research</i> , 2014, 50, 9194-9210.	1.7	59
34	Sources of sediment-bound organic matter infiltrating spawning gravels during the incubation and emergence life stages of salmonids. <i>Agriculture, Ecosystems and Environment</i> , 2014, 196, 76-93.	2.5	37
35	Estimating the contribution of in-stream cattle faeces deposits to nutrient loading in an English Chalk stream. <i>Agricultural Water Management</i> , 2014, 131, 156-162.	2.4	13
36	Interactions between diatoms and fine sediment. <i>Hydrological Processes</i> , 2014, 28, 1226-1237.	1.1	73

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37	Factors controlling the temporal variability in dissolved oxygen regime of salmon spawning gravels. <i>Hydrological Processes</i> , 2014, 28, 86-103.	1.1	31
38	Spatial variations in surface sediment structure in riffle-pool sequences: a preliminary test of the Differential Sediment Entrainment Hypothesis (DSEH). <i>Earth Surface Processes and Landforms</i> , 2013, 38, 449-465.	1.2	76
39	Catchment source contributions to the sediment-bound organic matter degrading salmonid spawning gravels in a lowland river, southern England. <i>Science of the Total Environment</i> , 2013, 456-457, 181-195.	3.9	49
40	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.	1.0	146
41	THE RELATIONSHIP BETWEEN FINE SEDIMENT AND MACROPHYTES IN RIVERS. <i>River Research and Applications</i> , 2012, 28, 1006-1018.	0.7	148
42	THE IMPACT OF FINE SEDIMENT ON MACROINVERTEBRATES. <i>River Research and Applications</i> , 2012, 28, 1055-1071.	0.7	346
43	Cartographic, Geophysical and Diver Surveys of the Medieval Town Site at Dunwich, Suffolk, England. <i>International Journal of Nautical Archaeology</i> , 2011, 40, 113-132.	0.1	23
44	The potential for paleolimnology to determine historic sediment delivery to rivers. <i>Journal of Paleolimnology</i> , 2011, 45, 287-306.	0.8	61
45	The impacts of fine sediment on riverine fish. <i>Hydrological Processes</i> , 2011, 25, 1800-1821.	1.1	433
46	Sediment targets for informing river catchment management: international experience and prospects. <i>Hydrological Processes</i> , 2011, 25, 2112-2129.	1.1	113
47	Accounting for uncertainty in DEMs from repeat topographic surveys: improved sediment budgets. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 136-156.	1.2	474
48	Linking geomorphic changes to salmonid habitat at a scale relevant to fish. <i>River Research and Applications</i> , 2010, 26, 469-486.	0.7	101
49	Process-based Principles for Restoring River Ecosystems. <i>BioScience</i> , 2010, 60, 209-222.	2.2	575
50	Logjam controls on channel:floodplain interactions in wooded catchments and their role in the formation of multi-channel patterns. <i>Geomorphology</i> , 2010, 116, 305-319.	1.1	125
51	A method for applying fluvial geomorphology in support of catchment-scale river restoration planning. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009, 19, 506-519.	0.9	71
52	Integrating ecology with hydromorphology: a priority for river science and management. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009, 19, 113-125.	0.9	271
53	28 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
54	A review of factors influencing the availability of dissolved oxygen to incubating salmonid embryos. <i>Hydrological Processes</i> , 2007, 21, 323-334.	1.1	134

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55	A field-based assessment of oxygen supply to incubating Atlantic salmon (<i>Salmo salar</i>) embryos. <i>Hydrological Processes</i> , 2007, 21, 3087-3100.	1.1	34
56	Impacts of river restoration on smallâ€wood dynamics in a lowâ€gradient headwater stream. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1204-1218.	1.2	43
57	The application of palaeohydrology in river management. <i>Catena</i> , 2006, 66, 169-183.	2.2	38
58	Does scientific conjecture accurately describe restoration practice? Insight from an international river restoration survey. <i>Area</i> , 2006, 38, 128-142.	1.0	31
59	Impact of clay particles on the cutaneous exchange of oxygen across the chorion of Atlantic salmon eggs. <i>Journal of Fish Biology</i> , 2005, 66, 1681-1691.	0.7	58
60	The impact of fine sediment accumulation on the survival of incubating salmon progeny: Implications for sediment management. <i>Science of the Total Environment</i> , 2005, 344, 241-258.	3.9	216
61	Refinement and application of a conductometric standpipe technique for measuring interstitial flow velocity in salmonid spawning gravels. <i>Hydrobiologia</i> , 2005, 545, 249-256.	1.0	8
62	Integrating Geomorphological Tools in Ecological and Management Studies. , 2005, , 631-660.		3
63	The hydraulic impact and performance of a lowland rehabilitation scheme based on pool-riffle installation: the River Waveney, Scole, Suffolk, UK. <i>River Research and Applications</i> , 2004, 20, 847-863.	0.7	26
64	Comparative biodiversity of rivers, streams, ditches and ponds in an agricultural landscape in Southern England. <i>Biological Conservation</i> , 2004, 115, 329-341.	1.9	692
65	Environmental change in river channels: a neglected element. Towards geomorphological typologies, standards and monitoring. <i>Science of the Total Environment</i> , 2003, 310, 17-23.	3.9	55
66	Exploring the Relations Between Riverbank Erosion and Geomorphological Controls Using Geographically Weighted Logistic Regression. <i>Geographical Analysis</i> , 2003, 35, 58-82.	1.9	45
67	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.	1.1	151
68	Modelling three-dimensional flow structures and patterns of boundary shear stress in a natural pool-riffle sequence. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 553-576.	1.2	174
69	A load cell based continuous recording bedload trap. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 659-672.	1.2	28
70	Surface modelling of upland river channel topography and sedimentology using GIS. <i>Physics and Chemistry of the Earth</i> , 2000, 25, 399-406.	0.3	8
71	Groundwater dominated rivers. <i>Hydrological Processes</i> , 1999, 13, 255-276.	1.1	160
72	Sediment transport and siltation of brown trout (<i>Salmo trutta</i> L.) spawning gravels in chalk streams. <i>Hydrological Processes</i> , 1999, 13, 447-458.	1.1	119

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73	Groundwater dominated rivers. Special issue. Hydrological Processes, 1999, 13, iv.	1.1	0
74	Groundwater dominated rivers. , 1999, 13, 255.		1
75	Sediment transport and siltation of brown trout (<i>Salmo trutta</i> L.) spawning gravels in chalk streams. , 1999, 13, 447.		2
76	Sediment transport and siltation of brown trout (<i>Salmo trutta</i> L.) spawning gravels in chalk streams. , 1999, 13, 447.		2
77	A preliminary analysis of the morphological adjustment within and downstream of a lowland river subject to river restoration. Aquatic Conservation: Marine and Freshwater Ecosystems, 1998, 8, 167-183.	0.9	31
78	The geomorphological basis for classifying rivers. Aquatic Conservation: Marine and Freshwater Ecosystems, 1998, 8, 415-430.	0.9	68
79	A preliminary analysis of the morphological adjustment within and downstream of a lowland river subject to river restoration. , 1998, 8, 167.		1
80	SEDIMENT TRANSPORT PROCESSES IN POOLâ€“RIFLE SEQUENCES. Earth Surface Processes and Landforms, 1996, 21, 241-262.	1.2	190
81	Sediment-related river maintenance: The role of fluvial geomorphology. Earth Surface Processes and Landforms, 1995, 20, 629-647.	1.2	123
82	Morphological and sedimentological changes in a gravel-bed river following 12 years of flow regulation for hydropower. River Research and Applications, 1995, 10, 247-264.	1.2	56
83	Evaluating field-based GIS for environmental characterization, modelling and decision support. International Journal of Geographical Information Science, 1995, 9, 475-486.	2.2	24
84	Geomorphological approach to stream stabilization and restoration: Case study of the Mimms hall brook, hertfordshire, UK. River Research and Applications, 1994, 9, 205-223.	1.2	13
85	Gps, gis and geomorphological field work. Earth Surface Processes and Landforms, 1994, 19, 777-787.	1.2	19
86	River restoration and geomorphology. Aquatic Conservation: Marine and Freshwater Ecosystems, 1994, 4, 169-177.	0.9	168
87	Fine sediment infiltration into gravel spawning beds within a regulated river experiencing floods: Ecological implications for salmonids. River Research and Applications, 1993, 8, 373-390.	1.2	107
88	Uncertainty in River Restoration. , 0, , 1-13.		2
89	Measures of Success: Uncertainty and Defining the Outcomes of River Restoration Schemes. , 0, , 187-208.		6
90	Uncertainty and the Management of Restoration Projects: The Construction and Early Post-Construction Phases. , 0, , 229-250.		2

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91	The Sustainability of Restored Rivers: Catchment-Scale Perspectives on Long Term Response. , 0, , 251-286.		8
92	Uncertainty and the Sustainable Management of Restored Rivers. , 0, , 287-301.		5
93	Sources of Uncertainty in River Restoration Research. , 0, , 15-19.		26
94	The Scope of Uncertainties in River Restoration. , 0, , 21-39.		48
95	Planning River Restoration Projects: Social and Cultural Dimensions. , 0, , 41-60.		26
96	Uncertainty in Riparian and Floodplain Restoration. , 0, , 79-104.		5
97	Hydrological and Hydraulic Aspects of Restoration Uncertainty for Ecological Purposes. , 0, , 105-138.		3
98	Uncertainty Surrounding the Ecological Targets and Response of River and Stream Restoration. , 0, , 139-163.		1
99	Constructing Restoration Schemes: Uncertainty, Challenges and Opportunities. , 0, , 165-186.		0
100	Spatial variations in surface sediment structure in riffleâ€“pool sequences: a preliminary test of the Differential Sediment Entrainment Hypothesis (DSEH). , 0, .		1
101	Interactions between fine-grained sediment delivery, river bed deposition and salmonid spawning success. Proceedings of the International Association of Hydrological Sciences, 0, 367, 199-206.	1.0	2