Gerald C Nanson

List of Publications by Year
in descending order

78 papers	7,693 citations	34105 52 h-index	66911 78 g-index
81 all docs	81 docs citations	81 times ranked	3619 citing authors

#	Article	IF	Citations
1	ANABRANCHING RIVERS: THEIR CAUSE, CHARACTER AND CLASSIFICATION. Earth Surface Processes and Landforms, 1996, 21, 217-239.	2.5	569
2	The Character of Channel Migration on the Beatton River, Northeast British Columbia, Canada. Bulletin of the Geological Society of America, 1975, 86, 487.	3.3	287
3	Point bar and floodplain formation of the meandering Beatton River, northeastern British Columbia, Canada. Sedimentology, 1980, 27, 3-29.	3.1	270
4	Episodes of vertical accretion and catastrophic stripping: A model of disequilibrium flood-plain development. Bulletin of the Geological Society of America, 1986, 97, 1467.	3.3	266
5	Anastomosis and the continuum of channel pattern. Earth Surface Processes and Landforms, 1993, 18, 613-625.	2.5	264
6	Lateral Migration Rates of River Bends. Journal of Hydraulic Engineering, 1984, 110, 1557-1567.	1.5	260
7	Forest Succession and Sedimentation on a Meandering-River Floodplain, Northeast British Columbia, Canada. Journal of Biogeography, 1977, 4, 229.	3.0	247
8	A statistical analysis of bank erosion and channel migration in western Canada. Bulletin of the Geological Society of America, 1986, 97, 497.	3.3	243
9	Wetting and drying of Australia over the past 300 ka. Geology, 1992, 20, 791.	4.4	215
10	Channel Migration and Incision on the Beatton River. Journal of Hydraulic Engineering, 1983, 109, 327-337.	1.5	206
11	The role of vegetation in the formation of anabranching channels in an ephemeral river, Northern plains, arid central Australia. Hydrological Processes, 2000, 14, 3099-3117.	2.6	199
12	Anastomosing river sedimentation in the Channel Country of central Australia. Sedimentology, 1998, 45, 595-619.	3.1	177
13	Hydraulic geometry and maximum flow efficiency as products of the principle of least action. Earth Surface Processes and Landforms, 2000, 25, 1-16.	2.5	174
14	Fluvial transport as a natural luminescence sensitiser of quartz. Quaternary Geochronology, 2008, 3, 365-376.	1.4	167
15	Vegetation and channel variation; a case study of four small streams in southeastern Australia. Geomorphology, 1997, 18, 237-249.	2.6	153
16	Bedload transport of mud as pedogenic aggregates in modern and ancient rivers. Sedimentology, 1989, 36, 291-306.	3.1	146
17	Palaeoenvironmental change in tropical Australasia over the last 30,000 years â€“ a synthesis by the OZ-INTIMATE group. Quaternary Science Reviews, 2013, 74, 97-114.	3.0	142
18	Coexistent mud braids and anastomosing channels in an arid-zone river: Cooper Creek, central Australia. Geology, 1986, 14, 175.	4.4	141

#	Article	IF	Citations
19	Flow transmission along an arid zone anastomosing river, cooper creek, australia. Hydrological Processes, 1994, 8, 137-154.	2.6	130
20	Least action principle, equilibrium states, iterative adjustment and the stability of alluvial channels. Earth Surface Processes and Landforms, 2008, 33, 923-942.	2.5	128
21	Late Quaternary palaeoenvironmental change in the Australian drylands. Quaternary Science Reviews, 2013, 74, 78-96.	3.0	128
22	Why some alluvial rivers develop an anabranching pattern. Water Resources Research, 2007, 43, .	4.2	116
23	Anabranching rivers on the Northern Plains of arid central Australia. Geomorphology, 1999, 29, 211-233.	2.6	112
24	Comparative Uranium-Thorium and Thermoluminescence Dating of Weathered Quaternary Alluvium in the Tropics of Northern Australia. Quaternary Research, 1991, 35, 347-366.	1.7	106
25	Alluvial evidence for major climate and flow regime changes during the middle and late Quaternary in eastern central Australia. Geomorphology, 2008, 101, 109-129.	2.6	106
26	Channel adjustments in response to the operation of large dams: The upper reach of the lower Yellow River. Geomorphology, 2012, 147-148, 35-48.	2.6	102
27	The morphology and formation of floodplain-surface channels, Cooper Creek, Australia. Geomorphology, 2004, 60, 107-126.	2.6	92
28	Aeolianâ€“fluvial interaction and climate change: source-bordering dune development over the past â¼100ka on Cooper Creek, central Australia. Quaternary Science Reviews, 2007, 26, 386-404.	3.0	92
29	The influence of bank strength on channel geometry: an integrated analysis of some observations. Earth Surface Processes and Landforms, 1998, 23, 865-876.	2.5	90
30	Anabranching rivers: ridge-form alluvial channels in tropical northern Australia. Geomorphology, 1998, 22, 205-224.	2.6	89
31	An event-based approach to the hydrology of arid zone rivers in the Channel Country of Australia. Journal of Hydrology, 2001, 254, 102-123.	5.4	88
32	Minimum energy as the general form of critical flow and maximum flow efficiency and for explaining variations in river channel pattern. Water Resources Research, 2004, 40, .	4.2	88
33	Aeolianâ€“fluvial interaction: evidence for Late Quaternary channel change and wind-rift linear dune formation in the northwestern Simpson Desert, Australia. Quaternary Science Reviews, 2006, 25, 142-162.	3.0	87
34	Anabranching and maximum flow efficiency in Magela Creek, northern Australia. Water Resources Research, 2004, 40, .	4.2	86
35	Hydroclimatic interpretation of Quaternary shorelines on South Australian playas. Palaeogeography, Palaeoclimatology, Palaeoecology, 1998, 144, 281-305.	2.3	84
36	EQUILIBRIUM AND NONEQUILIBRIUM CONDITIONS IN DRYLAND RIVERS. Physical Geography, 2000, 21, 183-211.	1.4	84

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37	Waterholes and their significance in the anastomosing channel system of Cooper Creek, Australia. Geomorphology, 1994, 9, 311-324.	2.6	80
38	Continental aridification and the vanishing of Australia's megalakes. Geology, 2011, 39, 167-170.	4.4	78
39	Hydrological transformation coincided with megafaunal extinction in central Australia. Geology, 2015, 43, 195-198.	4.4	76
40	Waterhole form and process in the anastomosing channel system of Cooper Creek, Australia. Geomorphology, 2000, 35, 101-117.	2.6	73
41	Forms and processes of two highly contrasting rivers in arid central Australia, and the implications for channel-pattern discrimination and prediction. Bulletin of the Geological Society of America, 2004, 116, 802.	3.3	71
42	Freshwater recharge into a shallow saline groundwater system, Cooper Creek floodplain, Queensland, Australia. Journal of Hydrology, 2010, 392, 150-163.	5.4	71
43	Contemporary and palaeo channel patterns and the late quaternary stratigraphy of Cooper Creek, Southwest Queensland, Australia. Earth Surface Processes and Landforms, 1986, 11, 581-590.	2.5	65
44	Quaternary stratigraphy, geochronology and evolution of the Magela Creek catchment in the monsoon tropics of northern Australia. Sedimentary Geology, 1993, 83, 277-302.	2.1	65
45	Experimental measurements of river-bank erosion caused by boat-generated waves on the gordon river, Tasmania. River Research and Applications, 1994, 9, 1-14.	0.8	65
46	A stability criterion inherent in laws governing alluvial channel flow. Earth Surface Processes and Landforms, 2002, 27, 929-944.	2.5	61
47	Bankfull hydraulic geometry; the role of in-channel vegetation and downstream declining discharges in the anabranching and distributary channels of the Gwydir distributive fluvial system, southeastern Australia. Geomorphology, 2011, 129, 152-165.	2.6	61
48	Selfâ€adjustment in rivers: Evidence for least action as the primary control of alluvialâ€channel form and process. Earth Surface Processes and Landforms, 2017, 42, 575-594.	2.5	61
49	A philosophy of rivers: Equilibrium states, channel evolution, teleomatic change and least action principle. Geomorphology, 2018, 302, 3-19.	2.6	60
50	The West Dapto flood of February 1984: rainfall characteristics and channel changes. Australian Geographer, 1985, 16, 249-258.	1.7	56
51	River stabilisation due to changing climate and vegetation during the late Quaternary in western Tasmania, Australia. Geomorphology, 1995, 13, 145-158.	2.6	54
52	Environmental character and history of the Lake Eyre Basin, one seventh of the Australian continent. Earth-Science Reviews, 2014, 132, 39-66.	9.1	54
53	Progradation of the Yellow (Huanghe) River delta in response to the implementation of a basin-scale water regulation program. Geomorphology, 2015, 243, 65-74.	2.6	54
54	Functional relationships between vegetation, channel morphology, and flow efficiency in an alluvial (anabranching) river. Journal of Geophysical Research, 2010, 115, .	3.3	50

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55	Rivers turned to rock: Late Quaternary alluvial induration influencing the behaviour and morphology of an anabranching river in the Australian monsoon tropics. Geomorphology, 2005, 70, 398-420.	2.6	44
56	New evidence of scroll-bar formation on the Beatton River. Sedimentology, 1981, 28, 889-891.	3.1	43
57	The hydraulic geometry of narrow and deep channels; evidence for flow optimisation and controlled peatland growth. Geomorphology, 2010, 117, 143-154.	2.6	38
58	A test of equilibrium theory and a demonstration of its practical application for predicting the morphodynamics of the Yangtze River. Earth Surface Processes and Landforms, 2014, 39, 669-675.	2.5	38
59	A soil Chronosequence on Lake Mega-Frome Beach Ridges and its Implications for Late Quaternary Pedogenesis and Paleoenvironmental Conditions in the Drylands of Southern Australia. Quaternary Research, 2015, 83, 150-165.	1.7	36
60	A Regional Trend to Meander Migration. Journal of Geology, 1980, 88, 100-108.	1.4	34
61	Hydraulic geometry of straight alluvial channels and the principle of least action. Journal of Hydraulic Research/De Recherches Hydrauliques, 2002, 40, 153-160.	1.7	33
62	Inbank and overbank velocity conditions in an arid zone anastomosing river. Hydrological Processes, 2002, 16, 1771-1791.	2.6	33
63	Chronology and palaeoenvironment of the Cranebrook Terrace (near Sydney) containing artefacts more than 40,000 years old. Archaeology in Oceania, 1987, 22, 72-78.	0.7	29
64	The geomorphology of Australia's fluvial systems: retrospect, perspect and prospect. Progress in Physical Geography, 1995, 19, 35-60.	3.2	28
65	Late-Holocene climatic variability indicated by three natural archives in arid southern Australia. Holocene, 2014, 24, 104-117.	1.7	27
66	Quaternary fluvial systems of tropics: Major issues and status of research. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 356-357, 1-15.	2.3	22
67	Late Quaternary changes in flow-regime on the Gwydir distributive fluvial system, southeastern Australia. Quaternary Science Reviews, 2013, 69, 168-180.	3.0	20
68	Fluviatile evidence for a period of late-quaternary pluvial climate in coastal southeastern Australia. Palaeogeography, Palaeoclimatology, Palaeoecology, 1988, 66, 45-61.	2.3	17
69	Fluvial palaeohydrology in the 21st century and beyond. Earth Surface Processes and Landforms, 2022, 47, 58-81.	2.5	16
70	Thermoluminescence ages for a reworked coastal barrier, southeastern Vietnam: a preliminary report. Journal of Asian Earth Sciences, 2002, 20, 535-548.	2.3	15
71	The morphometric variation of islands in the middle and lower Yangtze River: A variational analytical explanation. Geomorphology, 2016, 261, 273-281.	2.6	14
72	'Torrents of Terror': the August 1998 Storm and the Magnitude, Frequency and Impact of Major Floods in the Illawarra Region of New South Wales. Geographical Research, 2001, 39, 335-352.	0.6	11

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73	Serious problems in using equations to estimate bedload yields for coastal rivers in NSW. Australian Geographer, 1987, 18, 114-124.	1.7	10
74	ANABRANCHING RIVERS: THEIR CAUSE, CHARACTER AND CLASSIFICATION. Earth Surface Processes and Landforms, 1996, 21, 217-239.	2.5	10
75	Temporal and spatial adjustments of channel migration and planform geometry: responses to ENSO driven climate anomalies on the tropical freelyâ€meandering AguapeÃ-River, SÃ£o Paulo, Brazil. Earth Surface Processes and Landforms, 2018, 43, 1636-1647.	2.5	9
76	Commentary on a â€œConceptual model for complex river responses using an expanded Lane diagram by David Dust and Ellen Wohlâ€, Geomorphology, Volume 139â€“140, March 2012, Pages 109â€“121. Geomorphology, 2014, 209, 140-142.	2.6	8
77	Channelâ€Form Adjustment of an Alluvial River Under Hydrodynamic and Ecoâ€Geomorphologic Controls: Insights From Applying Equilibrium Theory Governing Alluvial Channel Flow. Water Resources Research, 2021, 57, e2020WR029174.	4.2	3
78	Anabranching and Anastomosing Rivers. , 2020, , .		1