

Gerald C Nanson

List of Publications by Year in descending order

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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	Fluvial palaeohydrology in the 21st century and beyond. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 58-81.	2.5	16
2	Channel Form Adjustment of an Alluvial River Under Hydrodynamic and Eco-Geomorphologic Controls: Insights From Applying Equilibrium Theory Governing Alluvial Channel Flow. <i>Water Resources Research</i> , 2021, 57, e2020WR029174.	4.2	3
3	Anabranching and Anastomosing Rivers. , 2020, , .		1
4	Temporal and spatial adjustments of channel migration and planform geometry: responses to ENSO driven climate anomalies on the tropical freely meandering Aguape River, São Paulo, Brazil. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1636-1647.	2.5	9
5	A philosophy of rivers: Equilibrium states, channel evolution, teleomatic change and least action principle. <i>Geomorphology</i> , 2018, 302, 3-19.	2.6	60
6	Self-adjustment in rivers: Evidence for least action as the primary control of alluvial channel form and process. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 575-594.	2.5	61
7	The morphometric variation of islands in the middle and lower Yangtze River: A variational analytical explanation. <i>Geomorphology</i> , 2016, 261, 273-281.	2.6	14
8	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. <i>Quaternary Research</i> , 2015, 83, 150-165.	1.7	36
9	Hydrological transformation coincided with megafaunal extinction in central Australia. <i>Geology</i> , 2015, 43, 195-198.	4.4	76
10	Progradation of the Yellow (Huanghe) River delta in response to the implementation of a basin-scale water regulation program. <i>Geomorphology</i> , 2015, 243, 65-74.	2.6	54
11	A test of equilibrium theory and a demonstration of its practical application for predicting the morphodynamics of the Yangtze River. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 669-675.	2.5	38
12	Late-Holocene climatic variability indicated by three natural archives in arid southern Australia. <i>Holocene</i> , 2014, 24, 104-117.	1.7	27
13	Environmental character and history of the Lake Eyre Basin, one seventh of the Australian continent. <i>Earth-Science Reviews</i> , 2014, 132, 39-66.	9.1	54
14	Commentary on a "Conceptual model for complex river responses using an expanded Lane diagram by David Dust and Ellen Wohl", <i>Geomorphology</i> , Volume 139-140, March 2012, Pages 109-121. <i>Geomorphology</i> , 2014, 209, 140-142.	2.6	8
15	Palaeoenvironmental change in tropical Australasia over the last 30,000 years " a synthesis by the OZ-INTIMATE group. <i>Quaternary Science Reviews</i> , 2013, 74, 97-114.	3.0	142
16	Late Quaternary palaeoenvironmental change in the Australian drylands. <i>Quaternary Science Reviews</i> , 2013, 74, 78-96.	3.0	128
17	Late Quaternary changes in flow-regime on the Gwydir distributive fluvial system, southeastern Australia. <i>Quaternary Science Reviews</i> , 2013, 69, 168-180.	3.0	20
18	Channel adjustments in response to the operation of large dams: The upper reach of the lower Yellow River. <i>Geomorphology</i> , 2012, 147-148, 35-48.	2.6	102

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19	Quaternary fluvial systems of tropics: Major issues and status of research. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 356-357, 1-15.	2.3	22
20	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. <i>Geomorphology</i> , 2011, 129, 152-165.	2.6	61
21	Continental aridification and the vanishing of Australia's megalakes. <i>Geology</i> , 2011, 39, 167-170.	4.4	78
22	Freshwater recharge into a shallow saline groundwater system, Cooper Creek floodplain, Queensland, Australia. <i>Journal of Hydrology</i> , 2010, 392, 150-163.	5.4	71
23	Functional relationships between vegetation, channel morphology, and flow efficiency in an alluvial (anabranching) river. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
24	The hydraulic geometry of narrow and deep channels; evidence for flow optimisation and controlled peatland growth. <i>Geomorphology</i> , 2010, 117, 143-154.	2.6	38
25	Least action principle, equilibrium states, iterative adjustment and the stability of alluvial channels. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 923-942.	2.5	128
26	Alluvial evidence for major climate and flow regime changes during the middle and late Quaternary in eastern central Australia. <i>Geomorphology</i> , 2008, 101, 109-129.	2.6	106
27	Fluvial transport as a natural luminescence sensitiser of quartz. <i>Quaternary Geochronology</i> , 2008, 3, 365-376.	1.4	167
28	Aeolian-fluvial interaction and climate change: source-bordering dune development over the past ~100ka on Cooper Creek, central Australia. <i>Quaternary Science Reviews</i> , 2007, 26, 386-404.	3.0	92
29	Why some alluvial rivers develop an anabranching pattern. <i>Water Resources Research</i> , 2007, 43, .	4.2	116
30	Aeolian-fluvial interaction: evidence for Late Quaternary channel change and wind-rift linear dune formation in the northwestern Simpson Desert, Australia. <i>Quaternary Science Reviews</i> , 2006, 25, 142-162.	3.0	87
31	Rivers turned to rock: Late Quaternary alluvial induration influencing the behaviour and morphology of an anabranching river in the Australian monsoon tropics. <i>Geomorphology</i> , 2005, 70, 398-420.	2.6	44
32	Forms and processes of two highly contrasting rivers in arid central Australia, and the implications for channel-pattern discrimination and prediction. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 802.	3.3	71
33	Anabranching and maximum flow efficiency in Magela Creek, northern Australia. <i>Water Resources Research</i> , 2004, 40, .	4.2	86
34	Minimum energy as the general form of critical flow and maximum flow efficiency and for explaining variations in river channel pattern. <i>Water Resources Research</i> , 2004, 40, .	4.2	88
35	The morphology and formation of floodplain-surface channels, Cooper Creek, Australia. <i>Geomorphology</i> , 2004, 60, 107-126.	2.6	92
36	Hydraulic geometry of straight alluvial channels and the principle of least action. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2002, 40, 153-160.	1.7	33

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37	Thermoluminescence ages for a reworked coastal barrier, southeastern Vietnam: a preliminary report. <i>Journal of Asian Earth Sciences</i> , 2002, 20, 535-548.	2.3	15
38	Inbank and overbank velocity conditions in an arid zone anastomosing river. <i>Hydrological Processes</i> , 2002, 16, 1771-1791.	2.6	33
39	A stability criterion inherent in laws governing alluvial channel flow. <i>Earth Surface Processes and Landforms</i> , 2002, 27, 929-944.	2.5	61
40	An event-based approach to the hydrology of arid zone rivers in the Channel Country of Australia. <i>Journal of Hydrology</i> , 2001, 254, 102-123.	5.4	88
41	'Torrents of Terror': the August 1998 Storm and the Magnitude, Frequency and Impact of Major Floods in the Illawarra Region of New South Wales. <i>Geographical Research</i> , 2001, 39, 335-352.	0.6	11
42	The role of vegetation in the formation of anabranching channels in an ephemeral river, Northern plains, arid central Australia. <i>Hydrological Processes</i> , 2000, 14, 3099-3117.	2.6	199
43	Hydraulic geometry and maximum flow efficiency as products of the principle of least action. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 1-16.	2.5	174
44	Waterhole form and process in the anastomosing channel system of Cooper Creek, Australia. <i>Geomorphology</i> , 2000, 35, 101-117.	2.6	73
45	EQUILIBRIUM AND NONEQUILIBRIUM CONDITIONS IN DRYLAND RIVERS. <i>Physical Geography</i> , 2000, 21, 183-211.	1.4	84
46	Anabranching rivers on the Northern Plains of arid central Australia. <i>Geomorphology</i> , 1999, 29, 211-233.	2.6	112
47	The influence of bank strength on channel geometry: an integrated analysis of some observations. <i>Earth Surface Processes and Landforms</i> , 1998, 23, 865-876.	2.5	90
48	Anastomosing river sedimentation in the Channel Country of central Australia. <i>Sedimentology</i> , 1998, 45, 595-619.	3.1	177
49	Anabranching rivers: ridge-form alluvial channels in tropical northern Australia. <i>Geomorphology</i> , 1998, 22, 205-224.	2.6	89
50	Hydroclimatic interpretation of Quaternary shorelines on South Australian playas. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1998, 144, 281-305.	2.3	84
51	Vegetation and channel variation; a case study of four small streams in southeastern Australia. <i>Geomorphology</i> , 1997, 18, 237-249.	2.6	153
52	ANABRANCHING RIVERS: THEIR CAUSE, CHARACTER AND CLASSIFICATION. <i>Earth Surface Processes and Landforms</i> , 1996, 21, 217-239.	2.5	569
53	ANABRANCHING RIVERS: THEIR CAUSE, CHARACTER AND CLASSIFICATION. <i>Earth Surface Processes and Landforms</i> , 1996, 21, 217-239.	2.5	10
54	River stabilisation due to changing climate and vegetation during the late Quaternary in western Tasmania, Australia. <i>Geomorphology</i> , 1995, 13, 145-158.	2.6	54

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55	The geomorphology of Australia's fluvial systems: retrospect, perspect and prospect. Progress in Physical Geography, 1995, 19, 35-60.	3.2	28
56	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
57	Flow transmission along an arid zone anastomosing river, cooper creek, australia. Hydrological Processes, 1994, 8, 137-154.	2.6	130
58	Waterholes and their significance in the anastomosing channel system of Cooper Creek, Australia. Geomorphology, 1994, 9, 311-324.	2.6	80
59	Anastomosis and the continuum of channel pattern. Earth Surface Processes and Landforms, 1993, 18, 613-625.	2.5	264
60	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
61	Wetting and drying of Australia over the past 300 ka. Geology, 1992, 20, 791.	4.4	215
62	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
63	Bedload transport of mud as pedogenic aggregates in modern and ancient rivers. Sedimentology, 1989, 36, 291-306.	3.1	146
64	Fluviatile evidence for a period of late-quaternary pluvial climate in coastal southeastern Australia. Palaeogeography, Palaeoclimatology, Palaeoecology, 1988, 66, 45-61.	2.3	17
65	Serious problems in using equations to estimate bedload yields for coastal rivers in NSW. Australian Geographer, 1987, 18, 114-124.	1.7	10
66	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
67	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
68	Coexistent mud braids and anastomosing channels in an arid-zone river: Cooper Creek, central Australia. Geology, 1986, 14, 175.	4.4	141
69	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
70	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
71	The West Dapto flood of February 1984: rainfall characteristics and channel changes. Australian Geographer, 1985, 16, 249-258.	1.7	56
72	Lateral Migration Rates of River Bends. Journal of Hydraulic Engineering, 1984, 110, 1557-1567.	1.5	260

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73	Channel Migration and Incision on the Beatton River. Journal of Hydraulic Engineering, 1983, 109, 327-337.	1.5	206
74	New evidence of scroll-bar formation on the Beatton River. Sedimentology, 1981, 28, 889-891.	3.1	43
75	Point bar and floodplain formation of the meandering Beatton River, northeastern British Columbia, Canada. Sedimentology, 1980, 27, 3-29.	3.1	270
76	A Regional Trend to Meander Migration. Journal of Geology, 1980, 88, 100-108.	1.4	34
77	Forest Succession and Sedimentation on a Meandering-River Floodplain, Northeast British Columbia, Canada. Journal of Biogeography, 1977, 4, 229.	3.0	247
78	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