

David J. Lowe

List of Publications by Year in descending order

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103
papers

5,610
citations

76326

40
h-index

79698

73
g-index

114
all docs

114
docs citations

114
times ranked

4609
citing authors

#	ARTICLE	IF	CITATIONS
1	Tephrochronology and its application: A review. <i>Quaternary Geochronology</i> , 2011, 6, 107-153.	1.4	573
2	Formal definition and dating of the GSSP (Global Stratotype Section and Point) for the base of the Holocene using the Greenland NGRIP ice core, and selected auxiliary records. <i>Journal of Quaternary Science</i> , 2009, 24, 3-17.	2.1	552
3	Quaternary environmental change in New Zealand: a review. <i>Progress in Physical Geography</i> , 1999, 23, 567-610.	3.2	403
4	Towards a climate event stratigraphy for New Zealand over the past 30,000 years (NZ-INTIMATE project). <i>Journal of Quaternary Science</i> , 2007, 22, 9-35.	2.1	275
5	Fingerprints and age models for widespread New Zealand tephra marker beds erupted since 30,000 years ago: a framework for NZ-INTIMATE. <i>Quaternary Science Reviews</i> , 2008, 27, 95-126.	3.0	205
6	A revised age for the Kawakawa/Oruanui tephra, a key marker for the Last Glacial Maximum in New Zealand. <i>Quaternary Science Reviews</i> , 2013, 74, 195-201.	3.0	151
7	Ages of 24 widespread tephras erupted since 30,000 years ago in New Zealand, with re-evaluation of the timing and palaeoclimatic implications of the Lateglacial cool episode recorded at Kaipo bog. <i>Quaternary Science Reviews</i> , 2013, 74, 170-194.	3.0	142
8	A wiggle-match date for Polynesian settlement of New Zealand. <i>Antiquity</i> , 2003, 77, 116-125.	1.0	117
9	Using palaeoenvironmental DNA to reconstruct past environments: progress and prospects. <i>Journal of Quaternary Science</i> , 2014, 29, 610-626.	2.1	116
10	Holocene vegetation, climate and history of a raised bog complex, northern New Zealand based on palynology, plant macrofossils and tephrochronology. <i>Holocene</i> , 1995, 5, 267-282.	1.7	108
11	Revised calendar date for the Taupo eruption derived by ¹⁴ C wiggle-matching using a New Zealand kauri ¹⁴ C calibration data set. <i>Holocene</i> , 2012, 22, 439-449.	1.7	107
12	Tephrochronology of last termination sequences in Europe: a protocol for improved analytical precision and robust correlation procedures (a joint SCOTAV-INTIMATE proposal). <i>Journal of Quaternary Science</i> , 2004, 19, 111-120.	2.1	106
13	Rerewhakaaitu Tephra, a land-sea marker for the Last Termination in New Zealand, with implications for global climate change. <i>Quaternary Science Reviews</i> , 2003, 22, 289-308.	3.0	100
14	Correlating tephras and cryptotephras using glass compositional analyses and numerical and statistical methods: Review and Evaluation. <i>Quaternary Science Reviews</i> , 2017, 175, 1-44.	3.0	91
15	A composite pollen-based stratotype for inter-regional evaluation of climatic events in New Zealand over the past 30,000 years (NZ-INTIMATE project). <i>Quaternary Science Reviews</i> , 2013, 74, 4-20.	3.0	83
16	Stratigraphy and chronology of a 15 ka sequence of multi-sourced silicic tephras in a montane peat bog, eastern North Island, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1999, 42, 565-579.	1.8	79
17	The Kaharoa Tephra as a Critical Datum for Earliest Human Impact in Northern New Zealand. <i>Journal of Archaeological Science</i> , 1998, 25, 533-544.	2.4	78
18	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759.	4.4	70

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19	A continuous 5300-yr Holocene cryptotephrostratigraphic record from northern New Zealand and implications for tephrochronology and volcanic hazard assessment. <i>Holocene</i> , 2006, 16, 173-187.	1.7	70
20	Vegetation and climate of Auckland, New Zealand, since ca. 32,000 cal. yr ago: support for an extended LGM. <i>Journal of Quaternary Science</i> , 2007, 22, 517-534.	2.1	70
21	Holocene vegetation and volcanic activity, Auckland Isthmus, New Zealand. <i>Journal of Quaternary Science</i> , 1991, 6, 177-193.	2.1	67
22	Discriminant function analysis and correlation of Late Quaternary rhyolitic tephra deposits from Taupo and Okataina volcanoes, New Zealand, using glass shard major element composition. <i>Quaternary International</i> , 1992, 13-14, 103-117.	1.5	67
23	Volcano-meteorological tsunamis, the AD 200 Taupo eruption (New Zealand) and the possibility of a global tsunami. <i>Holocene</i> , 2000, 10, 401-407.	1.7	66
24	Tephros and New Zealand Archaeology. <i>Journal of Archaeological Science</i> , 2000, 27, 859-870.	2.4	66
25	The Global Stratotype Section and Point (GSSP) for the base of the Holocene Series/Epoch (Quaternary) Tj ETQq1 1,0784314 rgBT / Qve	1.2	64
26	University of Waikato Radiocarbon Dates I. <i>Radiocarbon</i> , 1987, 29, 263-301.	1.8	63
27	Timing of the late-glacial climate reversal in the Southern Hemisphere using high-resolution radiocarbon chronology for Kaipo Bog, New Zealand. <i>Quaternary Research</i> , 2006, 65, 340-345.	1.7	62
28	A terrestrial palynological record for the last two glacial cycles from southwestern New Zealand. <i>Quaternary Science Reviews</i> , 2007, 26, 517-535.	3.0	62
29	Test of AMS ¹⁴ C dating of pollen concentrates using tephrochronology. <i>Journal of Quaternary Science</i> , 2007, 22, 37-51.	2.1	62
30	Late Quaternary volcanism in New Zealand: Towards an integrated record using distal airfall tephros in lakes and bogs. <i>Journal of Quaternary Science</i> , 1988, 3, 111-120.	2.1	60
31	Discriminant Function Analysis of Late Quaternary Tephros from Five Volcanoes in New Zealand Using Glass Shard Major Element Chemistry. <i>Quaternary Research</i> , 1988, 30, 270-283.	1.7	58
32	Radiocarbon age of the Kaharoa Tephra, a key marker for late-Holocene stratigraphy and archaeology in New Zealand. <i>Holocene</i> , 1998, 8, 487-495.	1.7	58
33	Towards rapid assay of cryptotephra in peat cores: Review and evaluation of various methods. <i>Quaternary International</i> , 2008, 178, 68-84.	1.5	57
34	The joy of teaching soil science. <i>Geoderma</i> , 2014, 217-218, 1-9.	5.1	52
35	Bayesian tools for tephrochronology. <i>Holocene</i> , 2003, 13, 639-647.	1.7	50
36	Development of models to predict <i>Pinus radiata</i> productivity throughout New Zealand. <i>Canadian Journal of Forest Research</i> , 2010, 40, 488-499.	1.7	50

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37	Interactions of natural hazards and society in Austral-Asia: evidence in past and recent records. <i>Quaternary International</i> , 2004, 118-119, 181-203.	1.5	49
38	Holocene Fluctuations of a Meromictic Lake in Southern British Columbia. <i>Quaternary Research</i> , 1997, 48, 100-113.	1.7	43
39	Comparison of spatial prediction techniques for developing <i>Pinus radiata</i> productivity surfaces across New Zealand. <i>Forest Ecology and Management</i> , 2009, 258, 2046-2055.	3.2	43
40	A discontinuous ca. 80 ka record of Late Quaternary environmental change from Lake Omapere, Northland, New Zealand. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 207, 165-198.	2.3	42
41	Late Holocene palynology and palaeovegetation of tephra-bearing mires at Papamoa and Waihi Beach, western Bay of Plenty, North Island, New Zealand. <i>Journal of the Royal Society of New Zealand</i> , 1995, 25, 283-300.	1.9	37
42	Does the bipolar seesaw extend to the terrestrial southern mid-latitudes?. <i>Quaternary Science Reviews</i> , 2012, 36, 214-222.	3.0	37
43	DNA adsorption by nanocrystalline allophane spherules and nanoaggregates, and implications for carbon sequestration in Andisols. <i>Applied Clay Science</i> , 2016, 120, 40-50.	5.2	37
44	A late-Holocene and prehistoric record of environmental change from Lake Waikaremoana, New Zealand. <i>Holocene</i> , 1998, 8, 443-454.	1.7	33
45	Volcanic hazards in Auckland, New Zealand: a preliminary assessment of the threat posed by central North Island silicic volcanism based on the Quaternary tephrostratigraphical record. <i>Geological Society Special Publication</i> , 1999, 161, 27-45.	1.3	33
46	A micromorphological study of pedogenic processes in an evolutionary soil sequence formed on Late Quaternary rhyolitic tephra deposits, North Island, New Zealand. <i>Quaternary International</i> , 1996, 34-36, 249-261.	1.5	32
47	Application of impulse radar to continuous profiling of tephra-bearing lake sediments and peats: An initial evaluation. <i>New Zealand Journal of Geology, and Geophysics</i> , 1985, 28, 667-674.	1.8	31
48	Reconstructing high-magnitude/low-frequency landslide events based on soil redistribution modelling and a Late-Holocene sediment record from New Zealand. <i>Geomorphology</i> , 2006, 74, 29-49.	2.6	31
49	Tephrostratigraphy and chronology of the Kaipo Lagoon, an 11,500 year-old montane peat bog in Urewera National Park, New Zealand. <i>Journal of the Royal Society of New Zealand</i> , 1986, 16, 25-41.	1.9	30
50	Tephra studies in New Zealand: an historical review. <i>Journal of the Royal Society of New Zealand</i> , 1990, 20, 119-150.	1.9	27
51	Re-identification of c. 15 700 cal yr BP tephra bed at Kaipo Bog, eastern North Island: Implications for dispersal of Rotorua and Puketarata tephra beds. <i>New Zealand Journal of Geology, and Geophysics</i> , 2003, 46, 591-596.	1.8	27
52	Sub-millennial eruptive recurrence in the silicic Mangaone Subgroup tephra sequence, New Zealand, from Bayesian modelling of zircon double-dating and radiocarbon ages. <i>Quaternary Science Reviews</i> , 2020, 246, 106517.	3.0	27
53	Stratigraphy and chronology of the Stent tephra, a c. 4000 year old distal silicic tephra from Taupo Volcanic Centre, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1994, 37, 37-47.	1.8	26
54	Revision of the age and stratigraphic relationships of Hinemaiaia Tephra and Whakatane Ash, North Island, New Zealand, using distal occurrences in organic deposits. <i>New Zealand Journal of Geology, and Geophysics</i> , 1986, 29, 61-73.	1.8	25

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55	Globalization of tephrochronology: new views from Australasia. <i>Progress in Physical Geography</i> , 2008, 32, 311-335.	3.2	24
56	Wiggle-match radiocarbon dating of the Taupo eruption. <i>Nature Communications</i> , 2019, 10, 4669.	12.8	24
57	A new attraction-detachment model for explaining flow sliding in clay-rich tephras. <i>Geology</i> , 2017, 45, 131-134.	4.4	23
58	Macrofossils and pollen representing forests of the pre-Taupo volcanic eruption (c. 1850 yr BP) era at Pureora and Benneydale, central North Island, New Zealand. <i>Journal of the Royal Society of New Zealand</i> , 1995, 25, 263-281.	1.9	22
59	Testing the synchronicity of pollen signals using tephrostratigraphy. <i>Global and Planetary Change</i> , 1999, 21, 113-128.	3.5	22
60	Two-step human environmental impact history for northern New Zealand linked to late-Holocene climate change. <i>Holocene</i> , 2018, 28, 1093-1106.	1.7	22
61	Soil and foliar phosphorus as indicators of sustainability for <i>Pinus radiata</i> plantation forestry in New Zealand. <i>Forest Ecology and Management</i> , 2005, 220, 140-154.	3.2	20
62	Impact of tephra fall and environmental change: a 1000 year record from Matakana Island, Bay of Plenty, North Island, New Zealand. <i>Geological Society Special Publication</i> , 1999, 161, 11-26.	1.3	19
63	The role of tephras in developing a high-precision chronostratigraphy for palaeoenvironmental reconstruction and archaeology in southern Kyushu, Japan, since 30,000 cal. BP: An integration. <i>Quaternary International</i> , 2016, 397, 79-92.	1.5	19
64	Pollen climate reconstruction from northern South Island, New Zealand (41°S), reveals varying high and low latitude teleconnections over the last 16 000 years. <i>Journal of Quaternary Science</i> , 2015, 30, 817-829.	2.1	18
65	Quaternary tephra marker beds and their potential for palaeoenvironmental reconstruction on Chatham Island, east of New Zealand, southwest Pacific Ocean. <i>Journal of Quaternary Science</i> , 2010, 25, 1169-1178.	2.1	17
66	Sakurajima-Satsuma (Sz-S) and Noike-Yumugi (N-Ym) tephras: New tephrochronological marker beds for the last deglaciation, southern Kyushu, Japan. <i>Quaternary International</i> , 2011, 246, 203-212.	1.5	17
67	Rapid carbon accumulation in a peatland following Late Holocene tephra deposition, New Zealand. <i>Quaternary Science Reviews</i> , 2020, 246, 106505.	3.0	16
68	Rainfall threshold for initiating effective stress decrease and failure in weathered tephra slopes. <i>Landslides</i> , 2020, 17, 267-281.	5.4	15
69	Tephrochronology in Aotearoa New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 153-200.	1.8	15
70	Hit-or-myth? Linking a 1259 AD acid spike with an Okataina eruption. <i>Antiquity</i> , 1998, 72, 427-432.	1.0	14
71	Crossing new frontiers: extending tephrochronology as a global geoscientific research tool. <i>Journal of Quaternary Science</i> , 2020, 35, 1-8.	2.1	14
72	Marine tephrochronology: a personal perspective. <i>Geological Society Special Publication</i> , 2014, 398, 7-19.	1.3	13

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73	A new method to extract and purify DNA from allophanic soils and paleosols, and potential for paleoenvironmental reconstruction and other applications. <i>Geoderma</i> , 2016, 274, 114-125.	5.1	13
74	TephraNZ: a major- and trace-element reference dataset for glass-shard analyses from prominent Quaternary rhyolitic tephra in New Zealand and implications for correlation. <i>Geochronology</i> , 2021, 3, 465-504.	2.5	13
75	Interpretation of pre-AD 472 Roman soils from physicochemical and mineralogical properties of buried tephric paleosols at Somma Vesuviana ruin, southwest Italy. <i>Geoderma</i> , 2009, 152, 243-251.	5.1	12
76	Dating the Kawakawa/Oruanui eruption: Comment on "Optical luminescence dating of a loess section containing a critical tephra marker horizon, SW North Island of New Zealand" by R. Grapes et al.. <i>Quaternary Geochronology</i> , 2010, 5, 493-496.	1.4	12
77	Using Soil Stratigraphy and Tephrochronology to Understand the Origin, Age, and Classification of a Unique Late Quaternary Tephra-Derived Ultisol in Aotearoa New Zealand. <i>Quaternary</i> , 2019, 2, 9.	2.0	12
78	Distal occurrence of mid-Holocene Whakatane Tephra on the Chatham Islands, New Zealand, and potential for cryptotephra studies. <i>Quaternary International</i> , 2011, 246, 344-351.	1.5	11
79	Peat humification records from Restionaceae bogs in northern New Zealand as potential indicators of Holocene precipitation, seasonality, and ENSO. <i>Quaternary Science Reviews</i> , 2019, 218, 378-394.	3.0	11
80	Using paleoseismology and tephrochronology to reconstruct fault rupturing and hydrothermal activity since c. 40 ka in Taupo Rift, New Zealand. <i>Quaternary International</i> , 2019, 500, 52-70.	1.5	10
81	Tephrochronology. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 783-799.	0.1	8
82	Assessing drivers of plantation forest productivity on eroded and non-eroded soils in hilly land, eastern North Island, New Zealand. <i>New Zealand Journal of Forestry Science</i> , 2014, 44, .	0.8	7
83	The Taupō Eruption Sequence of AD 232 ± 10 in Aotearoa New Zealand: A Retrospection. <i>Journal of Geography (Chigaku Zasshi)</i> , 2021, 130, 117-141.	0.3	7
84	Comparing volcanic glass shards in unfertilised and fertilised Andisols derived from rhyolitic tephra, New Zealand: Evidence for accelerated weathering and implications for land management. <i>Geoderma</i> , 2016, 271, 91-98.	5.1	6
85	A review of the world's soil museums and exhibitions. <i>Advances in Agronomy</i> , 2021, 166, 277-304.	5.2	6
86	Characterizing porous microaggregates and soil organic matter sequestered in allophanic paleosols on Holocene tephra using synchrotron-based X-ray microscopy and spectroscopy. <i>Scientific Reports</i> , 2021, 11, 21310.	3.3	6
87	Hiroshi Machida "Respected tephrochronologist, teacher, leader. <i>Quaternary International</i> , 2011, 246, 6-13.	1.5	5
88	Carbon Storage and DNA Adsorption in Allophanic Soils and Paleosols. , 2014, , 163-172.		5
89	Colin George Vucetich (1918"2007)"pioneering New Zealand tephrochronologist. <i>Quaternary International</i> , 2008, 178, 11-15.	1.5	4
90	John A. Westgate"Global tephrochronologist, stratigrapher, mentor. <i>Quaternary International</i> , 2008, 178, 4-9.	1.5	4

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91	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759-762.	4.4	4
92	Pumice Soils. <i>World Soils Book Series</i> , 2021, , 179-198.	0.2	3
93	Shinji Nagaoka (1958–2011). <i>Quaternary International</i> , 2011, 246, 14-16.	1.5	2
94	<i>Tephrochronology.</i> , 2014, , 1-26.		2
95	Global tephra studies: role and importance of the international tephra research group – Commission on Tephrochronology – in its first 60 years. <i>History of Geo- and Space Sciences</i> , 2022, 13, 93-132.	0.4	2
96	Organic Soils. <i>World Soils Book Series</i> , 2021, , 113-132.	0.2	1
97	Ultic Soils. <i>World Soils Book Series</i> , 2021, , 249-265.	0.2	1
98	Pallic Soils. <i>World Soils Book Series</i> , 2021, , 145-162.	0.2	1
99	Active Tephra 2010: International field conference on tephrochronology. <i>PAGES News</i> , 2011, 19, 33-33.	0.1	1
100	Linking proximal ignimbrites and coeval distal tephra deposits to establish a record of voluminous Early Quaternary (2.4–1.9 Ma) volcanism of the Tauranga Volcanic Centre, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 429, 107595.	2.1	1
101	<i>Tephrochronology.</i> , 2014, , 1-26.		0
102	Oxidic Soils. <i>World Soils Book Series</i> , 2021, , 133-143.	0.2	0
103	Granular Soils. <i>World Soils Book Series</i> , 2021, , 87-100.	0.2	0