

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	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
2	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
3	A review of the world's soil museums and exhibitions. <i>Advances in Agronomy</i> , 2021, 166, 277-304.	5.2	6
4	Oxidic Soils. <i>World Soils Book Series</i> , 2021, , 133-143.	0.2	0
5	Organic Soils. <i>World Soils Book Series</i> , 2021, , 113-132.	0.2	1
6	Ultic Soils. <i>World Soils Book Series</i> , 2021, , 249-265.	0.2	1
7	Granular Soils. <i>World Soils Book Series</i> , 2021, , 87-100.	0.2	0
8	Pumice Soils. <i>World Soils Book Series</i> , 2021, , 179-198.	0.2	3
9	Pallic Soils. <i>World Soils Book Series</i> , 2021, , 145-162.	0.2	1
10	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
11	Tephrochronology in Aotearoa New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 153-200.	1.8	15
12	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
13	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
14	Rainfall threshold for initiating effective stress decrease and failure in weathered tephra slopes. <i>Landslides</i> , 2020, 17, 267-281.	5.4	15
15	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
16	Crossing new frontiers: extending tephrochronology as a global geoscientific research tool. <i>Journal of Quaternary Science</i> , 2020, 35, 1-8.	2.1	14
17	Rapid carbon accumulation in a peatland following Late Holocene tephra deposition, New Zealand. <i>Quaternary Science Reviews</i> , 2020, 246, 106505.	3.0	16
18	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

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19	Wiggle-match radiocarbon dating of the Taupo eruption. <i>Nature Communications</i> , 2019, 10, 4669.	12.8	24
20	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
21	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
22	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
23	A new attraction-detachment model for explaining flow sliding in clay-rich tephtras. <i>Geology</i> , 2017, 45, 131-134.	4.4	23
24	Correlating tephtras and cryptotephtras using glass compositional analyses and numerical and statistical methods: Review and Evaluation. <i>Quaternary Science Reviews</i> , 2017, 175, 1-44.	3.0	91
25	A new method to extract and purify DNA from allophanic soils and paleosols, and potential for palaeoenvironmental reconstruction and other applications. <i>Geoderma</i> , 2016, 274, 114-125.	5.1	13
26	Comparing volcanic glass shards in unfertilised and fertilised Andisols derived from rhyolitic tephtras, New Zealand: Evidence for accelerated weathering and implications for land management. <i>Geoderma</i> , 2016, 271, 91-98.	5.1	6
27	The role of tephtras 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
28	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
29	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
30	Tephrochronology. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 783-799.	0.1	8
31	Tephrochronology. , 2014, , 1-26.		0
32	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
33	Marine tephrochronology: a personal perspective. <i>Geological Society Special Publication</i> , 2014, 398, 7-19.	1.3	13
34	Using palaeoenvironmental DNA to reconstruct past environments: progress and prospects. <i>Journal of Quaternary Science</i> , 2014, 29, 610-626.	2.1	116
35	The joy of teaching soil science. <i>Geoderma</i> , 2014, 217-218, 1-9.	5.1	52
36	Carbon Storage and DNA Adsorption in Allophanic Soils and Paleosols. , 2014, , 163-172.		5

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37	Tephrochronology. , 2014, , 1-26.		2
38	A composite pollen-based stratotype for inter-regional evaluation of climatic events in New Zealand over the past 30,000 years (NZ-INTIMATE project). Quaternary Science Reviews, 2013, 74, 4-20.	3.0	83
39	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. Quaternary Science Reviews, 2013, 74, 170-194.	3.0	142
40	A revised age for the Kawakawa/Oruanui tephra, a key marker for the Last Glacial Maximum in New Zealand. Quaternary Science Reviews, 2013, 74, 195-201.	3.0	151
41	Revised calendar date for the Taupo eruption derived by ¹⁴ C wiggle-matching using a New Zealand kauri ¹⁴ C calibration data set. Holocene, 2012, 22, 439-449.	1.7	107
42	Does the bipolar seesaw extend to the terrestrial southern mid-latitudes?. Quaternary Science Reviews, 2012, 36, 214-222.	3.0	37
43	Sakurajima-Satsuma (Sz-S) and Noike-Yumugi (N-Ym) tephras: New tephrochronological marker beds for the last deglaciation, southern Kyushu, Japan. Quaternary International, 2011, 246, 203-212.	1.5	17
44	Distal occurrence of mid-Holocene Whakatane Tephra on the Chatham Islands, New Zealand, and potential for cryptotephra studies. Quaternary International, 2011, 246, 344-351.	1.5	11
45	Shinji Nagaoka (1958â€“2011). Quaternary International, 2011, 246, 14-16.	1.5	2
46	Hiroshi Machida â€“ Respected tephrochronologist, teacher, leader. Quaternary International, 2011, 246, 6-13.	1.5	5
47	Tephrochronology and its application: A review. Quaternary Geochronology, 2011, 6, 107-153.	1.4	573
48	Active Tephra 2010: International field conference on tephrochronology. PAGES News, 2011, 19, 33-33.	0.1	1
49	Quaternary tephra marker beds and their potential for palaeoenvironmental reconstruction on Chatham Island, east of New Zealand, southwest Pacific Ocean. Journal of Quaternary Science, 2010, 25, 1169-1178.	2.1	17
50	Dating the Kawakawa/Oruanui eruption: Comment on â€œOptical luminescence dating of a loess section containing a critical tephra marker horizon, SW North Island of New Zealandâ€•by R. Grapes etÂal.. Quaternary Geochronology, 2010, 5, 493-496.	1.4	12
51	Development of models to predict <i>Pinus radiata</i> productivity throughout New Zealand. Canadian Journal of Forest Research, 2010, 40, 488-499.	1.7	50
52	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. Journal of Quaternary Science, 2009, 24, 3-17.	2.1	552
53	Comparison of spatial prediction techniques for developing Pinus radiata productivity surfaces across New Zealand. Forest Ecology and Management, 2009, 258, 2046-2055.	3.2	43
54	Interpretation of pre-AD 472 Roman soils from physicochemical and mineralogical properties of buried tephric paleosols at Somma Vesuviana ruin, southwest Italy. Geoderma, 2009, 152, 243-251.	5.1	12

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55	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
56	Colin George Vucetich (1918-2007) - pioneering New Zealand tephrochronologist. <i>Quaternary International</i> , 2008, 178, 11-15.	1.5	4
57	John A. Westgate - Global tephrochronologist, stratigrapher, mentor. <i>Quaternary International</i> , 2008, 178, 4-9.	1.5	4
58	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
59	Globalization of tephrochronology: new views from Australasia. <i>Progress in Physical Geography</i> , 2008, 32, 311-335.	3.2	24
60	The Global Stratotype Section and Point (GSSP) for the base of the Holocene Series/Epoch (Quaternary) Tj ETQq0 0,0 rgBT /Overlock 10	1.2	64
61	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
62	Test of AMS14C dating of pollen concentrates using tephrochronology. <i>Journal of Quaternary Science</i> , 2007, 22, 37-51.	2.1	62
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Bayesian tools for tephrochronology. <i>Holocene</i> , 2003, 13, 639-647.	1.7	50
74	A wiggle-match date for Polynesian settlement of New Zealand. <i>Antiquity</i> , 2003, 77, 116-125.	1.0	117
75	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
76	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759.	4.4	70
77	Volcano-meteorological tsunamis, thec. AD 200 Taupo eruption (New Zealand) and the possibility of a global tsunami. <i>Holocene</i> , 2000, 10, 401-407.	1.7	66
78	Tephra and New Zealand Archaeology. <i>Journal of Archaeological Science</i> , 2000, 27, 859-870.	2.4	66
79	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759-762.	4.4	4
80	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
81	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
82	Quaternary environmental change in New Zealand: a review. <i>Progress in Physical Geography</i> , 1999, 23, 567-610.	3.2	403
83	Testing the synchronicity of pollen signals using tephrostratigraphy. <i>Global and Planetary Change</i> , 1999, 21, 113-128.	3.5	22
84	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
85	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
86	Hit-or-myth? Linking a 1259 AD acid spike with an Okataina eruption. <i>Antiquity</i> , 1998, 72, 427-432.	1.0	14
87	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
88	A late-Holocene and prehistoric record of environmental change from Lake Waikaremoana, New Zealand. <i>Holocene</i> , 1998, 8, 443-454.	1.7	33
89	Holocene Fluctuations of a Meromictic Lake in Southern British Columbia. <i>Quaternary Research</i> , 1997, 48, 100-113.	1.7	43
90	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

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91	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
92	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
93	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
94	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
95	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
96	Holocene vegetation and volcanic activity, Auckland Isthmus, New Zealand. <i>Journal of Quaternary Science</i> , 1991, 6, 177-193.	2.1	67
97	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
98	Late Quaternary volcanism in New Zealand: Towards an integrated record using distal airfall tephtras in lakes and bogs. <i>Journal of Quaternary Science</i> , 1988, 3, 111-120.	2.1	60
99	Discriminant Function Analysis of Late Quaternary Tephtras from Five Volcanoes in New Zealand Using Glass Shard Major Element Chemistry. <i>Quaternary Research</i> , 1988, 30, 270-283.	1.7	58
100	University of Waikato Radiocarbon Dates I. <i>Radiocarbon</i> , 1987, 29, 263-301.	1.8	63
101	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
102	Tephrostratigraphy and chronology of the Kaipō 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
103	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