

David J Lowe

List of Publications by Year in descending order

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86
papers

4,471
citations

136950

32
h-index

106344

65
g-index

90
all docs

90
docs citations

90
times ranked

3530
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	Allophanic Soils. <i>World Soils Book Series</i> , 2021, , 21-39.	0.2	2
4	Conclusion: Global Context, Formation Pathways, Mapping, and Assessment of the Soils of Aotearoa New Zealand. <i>World Soils Book Series</i> , 2021, , 289-313.	0.2	0
5	Oxidic Soils. <i>World Soils Book Series</i> , 2021, , 133-143.	0.2	0
6	Organic Soils. <i>World Soils Book Series</i> , 2021, , 113-132.	0.2	1
7	Ultic Soils. <i>World Soils Book Series</i> , 2021, , 249-265.	0.2	1
8	Pumice Soils. <i>World Soils Book Series</i> , 2021, , 179-198.	0.2	3
9	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
10	Tephrochronology in Aotearoa New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 153-200.	1.8	15
11	TephraNZ: a major- and trace-element reference dataset for glass-shard analyses from prominent Quaternary rhyolitic tephtras in New Zealand and implications for correlation. <i>Geochronology</i> , 2021, 3, 465-504.	2.5	13
12	Soils in the Ross Sea Region of Antarctica. <i>World Soils Book Series</i> , 2021, , 267-287.	0.2	0
13	Characterizing porous microaggregates and soil organic matter sequestered in allophanic paleosols on Holocene tephtras 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 tephtra slopes. <i>Landslides</i> , 2020, 17, 267-281.	5.4	15
15	Sub-millennial eruptive recurrence in the silicic Mangaone Subgroup tephtra 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 tephtra 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	Marine tephrochronology: a personal perspective. <i>Geological Society Special Publication</i> , 2014, 398, 7-19.	1.3	13
33	Using palaeoenvironmental DNA to reconstruct past environments: progress and prospects. <i>Journal of Quaternary Science</i> , 2014, 29, 610-626.	2.1	116
34	Tephrochronology. , 2014, , 1-26.		2
35	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
36	Ages of 24 widespread tephtras 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

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37	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
38	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
39	Does the bipolar seesaw extend to the terrestrial southern mid-latitudes?. <i>Quaternary Science Reviews</i> , 2012, 36, 214-222.	3.0	37
40	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
41	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
42	Shinji Nagaoka (1958-2011). <i>Quaternary International</i> , 2011, 246, 14-16.	1.5	2
43	Hiroshi Machida - Respected tephrochronologist, teacher, leader. <i>Quaternary International</i> , 2011, 246, 6-13.	1.5	5
44	Tephrochronology and its application: A review. <i>Quaternary Geochronology</i> , 2011, 6, 107-153.	1.4	573
45	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
46	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
47	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
48	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
49	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
50	Colin George Vucetich (1918-2007)-pioneering New Zealand tephrochronologist. <i>Quaternary International</i> , 2008, 178, 11-15.	1.5	4
51	John A. Westgate-Global tephrochronologist, stratigrapher, mentor. <i>Quaternary International</i> , 2008, 178, 4-9.	1.5	4
52	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
53	Globalization of tephrochronology: new views from Australasia. <i>Progress in Physical Geography</i> , 2008, 32, 311-335.	3.2	24
54	The Global Stratotype Section and Point (GSSP) for the base of the Holocene Series/Epoch (Quaternary) Tj ETQq0 Q Q rgBT /Overlock 10	1.2	64

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55	Test of AMS14C dating of pollen concentrates using tephrochronology. <i>Journal of Quaternary Science</i> , 2007, 22, 37-51.	2.1	62
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	Bayesian tools for tephrochronology. <i>Holocene</i> , 2003, 13, 639-647.	1.7	50
64	A wiggle-match date for Polynesian settlement of New Zealand. <i>Antiquity</i> , 2003, 77, 116-125.	1.0	117
65	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
66	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759.	4.4	70
67	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
68	Fine-resolution pollen record of late-glacial climate reversal from New Zealand. <i>Geology</i> , 2000, 28, 759-762.	4.4	4
69	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
70	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
71	Stratigraphy and chronology of a 15 ka sequence of multi-sourced silicic tephtras 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
72	Hit-or-myth? Linking a 1259 AD acid spike with an Okataina eruption. <i>Antiquity</i> , 1998, 72, 427-432.	1.0	14

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73	A late-Holocene and prehistoric record of environmental change from Lake Waikaremoana, New Zealand. <i>Holocene</i> , 1998, 8, 443-454.	1.7	33
74	Holocene Fluctuations of a Meromictic Lake in Southern British Columbia. <i>Quaternary Research</i> , 1997, 48, 100-113.	1.7	43
75	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
76	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
77	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
78	Holocene vegetation and volcanic activity, Auckland Isthmus, New Zealand. <i>Journal of Quaternary Science</i> , 1991, 6, 177-193.	2.1	67
79	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
80	Late Quaternary volcanism in New Zealand: Towards an integrated record using distal airfall tephra in lakes and bogs. <i>Journal of Quaternary Science</i> , 1988, 3, 111-120.	2.1	60
81	Discriminant Function Analysis of Late Quaternary Tephra from Five Volcanoes in New Zealand Using Glass Shard Major Element Chemistry. <i>Quaternary Research</i> , 1988, 30, 270-283.	1.7	58
82	University of Waikato Radiocarbon Dates I. <i>Radiocarbon</i> , 1987, 29, 263-301.	1.8	63
83	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
84	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
85	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
86	GEOLOGY AND TERRESTRIAL AGE OF THE DERRICK PEAK METEORITE OCCURRENCE, ANTARCTICA. <i>Meteoritics</i> , 1982, 17, 119-127.	1.4	5