Nicholas J G Pearce

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Compilation of New and Published Major and Trace Element Data for NIST SRM 610 and NIST SRM 612 Glass Reference Materials. Geostandards and Geoanalytical Research, 1997, 21, 115-144.	1.7	2,280
2	The Klondike goldfields and Pleistocene environments of Beringia. GSA Today, 2009, 19, 4.	1.1	296
3	Relation between century-scale Holocene arid intervals in tropical and temperate zones. Nature, 1995, 373, 134-137.	13.7	234
4	Tephrostratigraphy and glass compositions of post-15Âkyr Campi Flegrei eruptions: implications for eruption history and chronostratigraphic markers. Quaternary Science Reviews, 2011, 30, 3638-3660.	1.4	224
5	All Toba Tephra Occurrences across Peninsular India Belong to the 75,000 yr B.P. Eruption. Quaternary Research, 1998, 50, 107-112.	1.0	163
6	Constraints in using Cerium-anomaly of bulk sediments as an indicator of paleo bottom water redox environment: A case study from the Central Indian Ocean Basin. Chemical Geology, 2005, 221, 260-278.	1.4	161
7	Quantitative analysis of trace elements in carbonates using laser ablation inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1991, 6, 445.	1.6	134
8	Integrating the INTIMATE records using tephrochronology: rising to the challenge. Quaternary Science Reviews, 2012, 36, 11-27.	1.4	126
9	Laser ablation inductively coupled plasma mass spectrometry: A new technique for the determination of trace and ultra-trace elements in silicates. Geochimica Et Cosmochimica Acta, 1993, 57, 475-482.	1.6	118
10	Mantle heterogeneity beneath the southern Mid-Atlantic Ridge: trace element evidence for contamination of ambient asthenospheric mantle. Earth and Planetary Science Letters, 2002, 203, 479-498.	1.8	112
11	The application of ICP-MS methods to tephrochronological problems. Applied Geochemistry, 2004, 19, 289-322.	1.4	105
12	A high-precision 40Ar/39Ar age for the Young Toba Tuff and dating of ultra-distal tephra: Forcing of Quaternary climate and implications for hominin occupation of India. Quaternary Geochronology, 2014, 21, 90-103.	0.6	102
13	Geochemistry of Santorini tephra in lake sediments from Southwest Turkey. Global and Planetary Change, 1999, 21, 17-29.	1.6	91
14	Correlating tephras and cryptotephras using glass compositional analyses and numerical and statistical methods: ReviewAandAevaluation. Quaternary Science Reviews, 2017, 175, 1-44.	1.4	91
15	High-precision 40Ar/39Ar dating of pleistocene tuffs and temporal anchoring of the Matuyama-Brunhes boundary. Quaternary Geochronology, 2017, 39, 1-23.	0.6	90
16	Metal concentrations in fish otoliths in relation to body composition after laboratory exposure to mercury and lead. Marine Ecology - Progress Series, 1998, 165, 235-245.	0.9	90
17	Geochemical fingerprinting of the widespread Toba tephra using biotite compositions. Quaternary International, 2011, 246, 97-104.	0.7	89
18	Chemical fractionation during infrared and ultraviolet laser ablation inductively coupled plasma mass spectrometry—implications for mineral microanalysis. Analytical Communications, 1996, 33, 35-39.	2.2	88

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19	Age and context of the oldest known hominin fossils from Flores. Nature, 2016, 534, 249-253.	13.7	88
20	Trace-element microanalysis by LA-ICP-MS: The quest for comprehensive chemical characterisation of single, sub-10Aμm volcanic glass shards. Quaternary International, 2011, 246, 57-81.	0.7	87
21	Correlation and characterisation of individual glass shards from tephra deposits using trace element laser ablation ICP-MS analyses: current status and future potential. Journal of Quaternary Science, 2007, 22, 721-736.	1.1	85
22	Ultra-distal tephra deposits from super-eruptions: Examples from Toba, Indonesia and Taupo Volcanic Zone, New Zealand. Quaternary International, 2012, 258, 54-79.	0.7	79
23	Major- and trace-element characterization, expanded distribution, and a new chronology for the latest Pleistocene Glacier Peak tephras in western North America. Quaternary Research, 2009, 71, 201-216.	1.0	78
24	Bottom water oxygenation history in southeastern Arabian Sea during the past 140ka: Results from redox-sensitive elements. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 280, 396-405.	1.0	78
25	A new programme of obsidian characterization at Çatalhöyük, Turkey. Journal of Archaeological Science, 2006, 33, 893-909.	1.2	77
26	Communication. Mineral microanalysis by laser ablation inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1992, 7, 53.	1.6	75
27	Recognition of Santorini (Minoan) Tephra in Lake Sediments from Gölhisar Gölü, Southwest Turkey by Laser Ablation ICP-MS. Journal of Archaeological Science, 1998, 25, 677-687.	1.2	74
28	Determining the K-content of single-grains of feldspar for luminescence dating. Radiation Measurements, 2012, 47, 790-796.	0.7	73
29	The application of laser ablation ICP-MS to the analysis of volcanic glass shards from tephra deposits: bulk glass and single shard analysis. Global and Planetary Change, 1999, 21, 151-171.	1.6	70
30	Comparisons of infrared and ultraviolet laser probe microanalysis inductively coupled plasma mass spectrometry in mineral analysis. Analyst, The, 1995, 120, 1365.	1.7	69
31	Trace-element analysis of volcanic glass shards by laser ablation inductively coupled plasma mass spectrometry: application to tephrochronological studies. Applied Geochemistry, 1994, 9, 323-335.	1.4	67
32	Developments in the quantitative and semiquantitative determination of trace elements in carbonates by laser ablation inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1992, 7, 595.	1.6	66
33	Old Crow tephra across eastern Beringia: a single cataclysmic eruption at the close of Marine Isotope Stage 6. Quaternary Science Reviews, 2011, 30, 2069-2090.	1.4	65
34	Measurements of trace elements in basalts and their phenocrysts by laser probe microanalysis inductively coupled plasma mass spectrometry (LPMA-ICP-MS). Chemical Geology, 1995, 121, 131-144.	1.4	64
35	Changing ideas on the identity and stratigraphic significance of the Sheep Creek tephra beds in Alaska and the Yukon Territory, northwestern North America. Quaternary International, 2008, 178, 183-209.	0.7	64
36	Trace-element composition of single glass shards in distal Minoan tephra from SW Turkey. Journal of the Geological Society, 2002, 159, 545-556.	0.9	61

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37	Identification of Aniakchak (Alaska) tephra in Greenland ice core challenges the 1645 BC date for Minoan eruption of Santorini. Geochemistry, Geophysics, Geosystems, 2004, 5, .	1.0	61
38	A North Atlantic tephrostratigraphical framework for 130–60ÂkaÂb2k: new tephra discoveries, marine-based correlations, and future challenges. Quaternary Science Reviews, 2014, 106, 101-121.	1.4	61
39	The Development of Laser Ablation ICP-MS and Calibration Strategies: Examples from the Analysis of Trace Elements in Volcanic Glass Shards and Sulfide Minerals. Geostandards and Geoanalytical Research, 1997, 21, 175-190.	1.7	59
40	Biomonitoring of pollution by Cerastoderma edule from the British Isles: a Laser Ablation ICP-MS study. Marine Pollution Bulletin, 1997, 34, 1025-1031.	2.3	58
41	A study of sclerochronology by laser ablation ICP-MS. Journal of Analytical Atomic Spectrometry, 2000, 15, 1143-1148.	1.6	54
42	A detailed framework of Marine Isotope Stages 4 and 5 volcanic events recorded in two Greenland ice-cores. Quaternary Science Reviews, 2012, 36, 59-77.	1.4	53
43	Developments in the analysis of volcanic glass shards by laser ablation ICP-MS: Quantitative and single internal standard-multielement methods. Quaternary International, 1996, 34-36, 213-227.	0.7	52
44	Mid-Pleistocene silicic tephra beds in the Auckland region, New Zealand: Their correlation and origins based on the trace element analyses of single glass shards. Quaternary International, 2008, 178, 16-43.	0.7	51
45	Dating diagenetic monazite in mudrocks: constraining the oil window?. Journal of the Geological Society, 2002, 159, 619-622.	0.9	49
46	Stratigraphy, age and correlation of middle Pleistocene silicic tephras in the Auckland region, New Zealand: A prolific distal record of Taupo Volcanic Zone volcanism. New Zealand Journal of Geology, and Geophysics, 2004, 47, 447-479.	1.0	49
47	The origin of carbonatites and related rocks from the Igaliko Dyke Swarm, Gardar Province, South Greenland: field, geochemical and C-O-Sr-Nd isotope evidence. Lithos, 1996, 39, 21-40.	0.6	47
48	Geochemistry of Cd in the secondary environment near abandoned metalliferous mines, Wales. Applied Geochemistry, 1993, 8, 29-35.	1.4	45
49	Metal distribution during diagenesis in the contaminated sediments of Dulas Bay, Anglesey, N. Wales, UK. Applied Geochemistry, 2003, 18, 901-913.	1.4	45
50	Minor and trace element chemistry of modern shells: a laser ablation inductively coupled plasma mass spectrometry study. Applied Geochemistry, 1993, 8, 111-116.	1.4	44
51	Trace metal variations in the shells of Ensis siliqua record pollution and environmental conditions in the sea to the west of mainland Britain. Marine Pollution Bulletin, 2006, 52, 739-755.	2.3	44
52	Comment on "Some numerical considerations in the geochemical analysis of distal microtephra―by A.M. Pollard, S.P.E. Blockley and C.S. Lane. Applied Geochemistry, 2008, 23, 1353-1364.	1.4	44
53	Concentrations of heavy metals and related trace elements in some Ethiopian rift-valley lakes and their in-flows. Hydrobiologia, 2003, 492, 171-178.	1.0	43
54	Carn Goedog is the likely major source of Stonehenge doleritic bluestones: evidence based on compatible element geochemistry and Principal Component Analysis. Journal of Archaeological Science, 2014, 42, 179-193.	1.2	43

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55	Multiple melt bodies fed the AD 2011 eruption of Puyehue-Cordón Caulle, Chile. Scientific Reports, 2015, 5, 17589.	1.6	43
56	ldentification of cryptotephra horizons in a North East Atlantic marine record spanning marine isotope stages 4 and 5a (â^¼60,000–82,000 a b2k). Quaternary International, 2011, 246, 177-189.	0.7	42
57	Trace element variations in coeval Holocene speleothems from GB Cave, southwest England. Holocene, 1999, 9, 707-713.	0.9	41
58	Tephrochronology of the Toba tuffs: four primary glass populations define the 75â€ka Youngest Toba Tuff, northern Sumatra, Indonesia. Journal of Quaternary Science, 2013, 28, 772-776.	1.1	41
59	Underestimated risks of recurrent long-range ash dispersal from northern Pacific Arc volcanoes. Scientific Reports, 2016, 6, 29837.	1.6	41
60	Environmental monitoring on shellfish using UV laser ablation ICP-MS. Analytical and Bioanalytical Chemistry, 1996, 355, 789-792.	1.9	40
61	A catalogue of late Cenozoic tephra beds in the Klondike goldfields and adjacent areas, Yukon Territory ¹ Yukon Geological Survey Contribution 010 Canadian Journal of Earth Sciences, 2011, 48, 1386-1418.	0.6	39
62	Late Quaternary tephrostratigraphy, Ahklun Mountains, SW Alaska. Journal of Quaternary Science, 2012, 27, 344-359.	1.1	37
63	Analysis of zircon by laser ablation and solution inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1992, 7, 611.	1.6	35
64	Mineral microanalysis by laserprobe inductively coupled plasma mass spectrometry. , 1995, , 291-325.		34
65	Individual glass shard trace element analyses confirm that all known Toba tephra reported from India is from the <i>c</i> . 75â€ka Youngest Toba eruption. Journal of Quaternary Science, 2014, 29, 729-734.	1.1	34
66	The origins of carbonatites and related rocks from the GrÃ,nnedal-Ãka Nepheline Syenite complex, South Greenland: C-O-Sr isotope evidence. Mineralogical Magazine, 1997, 61, 515-529.	0.6	33
67	Carbonatites and lamprophyres of the Gardar Province – a â€~window' to the sub-Gardar mantle?. Mineralogical Magazine, 2003, 67, 855-872.	0.6	32
68	Tephra glass chemistry provides storage and discharge details of five magma reservoirs which fed the 75 ka Youngest Toba Tuff eruption, northern Sumatra. Journal of Quaternary Science, 2020, 35, 256-271.	1.1	31
69	Microbeam methods for the analysis of glass in fine-grained tephra deposits: a SMART perspective on current and future trends. Geological Society Special Publication, 2014, 398, 29-46.	0.8	30
70	Cryptotephrochronology of the Eemian and the last interglacial–glacial transition in the North East Atlantic. Journal of Quaternary Science, 2013, 28, 501-514.	1.1	28
71	Eruptive history and magmatic stability of <scp>E</scp> rebus volcano, <scp>A</scp> ntarctica: Insights from englacial tephra. Geochemistry, Geophysics, Geosystems, 2014, 15, 4180-4202.	1.0	28
72	Towards a protocol for the trace element analysis of glass from rhyolitic shards in tephra deposits by laser ablation ICPâ€MS. Journal of Quaternary Science, 2014, 29, 627-640.	1.1	28

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73	The variegated (VT) tephra: A new regional marker for middle to late marine isotope stage 5 across Yukon and Alaska. Quaternary International, 2011, 246, 312-323.	0.7	27
74	Comment on "A synchronized dating of three Greenland ice cores throughout the Holocene―by B. M. Vinther et al.: No Minoan tephra in the 1642 B.C. layer of the GRIP ice core. Journal of Geophysical Research, 2008, 113, .	3.3	26
75	A past-millennium maximum in postglacial activity from Volcán Chaitén, southern Chile. Geology, 2015, 43, 47-50.	2.0	26
76	Recurrent explosive eruptions from a high-risk Main Ethiopian Rift volcano throughout the Holocene. Geology, 2017, 45, 1127-1130.	2.0	24
77	Age determination using feldspar: Evaluating fading-correction model performance. Radiation Measurements, 2018, 119, 58-73.	0.7	21
78	Stonehenge rhyolitic bluestone sources and the application of zircon chemistry as a new tool for provenancing rhyolitic lithics. Journal of Archaeological Science, 2011, 38, 605-622.	1.2	20
79	Lead isotope ratios of volcanic glass by laser ablation inductively-coupled plasma mass spectrometry: Application to Miocene tephra beds in Montana, USA and adjacent areas. Quaternary International, 2011, 246, 82-96.	0.7	20
80	Revisiting the Borrobol Tephra. Boreas, 2016, 45, 629-643.	1.2	20
81	Acid Mine Drainage in Wales and Influence of Ochre Precipitation on Water Chemistry. ACS Symposium Series, 1993, , 261-274.	0.5	19
82	Metal pollution recorded in extinctDreissena polymorpha communities, Lake Breitling, Havel Lakes system, Germany: a laser ablation inductively coupled plasma mass spectrometry study. Hydrobiologia, 1996, 317, 1-11.	1.0	19
83	Gold Run tephra: a Middle Pleistocene stratigraphic and paleoenvironmental marker across west-central Yukon Territory, Canada. Canadian Journal of Earth Sciences, 2009, 46, 465-478.	0.6	18
84	Field Trials of Low-cost Reactive Media for the Passive Treatment of Circum-neutral Metal Mine Drainage in Mid-Wales, UK. Mine Water and the Environment, 2011, 30, 82-89.	0.9	18
85	Peer review versus editorial review and their role in innovative science. Theoretical Medicine and Bioethics, 2012, 33, 359-376.	0.4	18
86	Chemical complexity and source of the White River Ash, Alaska and Yukon. , 2014, 10, 1020-1042.		18
87	Internal U, Th and Rb concentrations of alkali-feldspar grains: Implications for luminescence dating. Quaternary Geochronology, 2016, 35, 16-25.	0.6	18
88	Last glacial period cryptotephra deposits in an eastern North Atlantic marine sequence: Exploring linkages to the Greenland ice-cores. Quaternary Geochronology, 2016, 31, 62-76.	0.6	18
89	Zirconium and niobium-bearing ilmenites from the Igaliko dyke swarm, South Greenland. Mineralogical Magazine, 1990, 54, 585-588.	0.6	17
90	Re-evaluation and extension of the Marine Isotope Stage 5 tephrostratigraphy of the Faroe Islands region: The cryptotephra record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 409, 153-168.	1.0	16

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91	Some observations on heavy metal concentrations in soils of the Mendip region of north Somerset. Environmental Geochemistry and Health, 1991, 13, 193-196.	1.8	13
92	Marine tephrochronology: an introduction to tracing time in the ocean. Geological Society Special Publication, 2014, 398, 1-5.	0.8	13
93	First identification and characterization of Borrobolâ€ŧype tephra in the Greenland ice cores: new deposits and improved age estimates. Journal of Quaternary Science, 2018, 33, 212-224.	1.1	13
94	Volcanic ash layers in Lake El'gygytgyn: eight new regionally significant chronostratigraphic markers for western Beringia. Climate of the Past, 2014, 10, 1041-1062.	1.3	12
95	Use of electrothermal vaporization inductively coupled plasma mass spectrometry for single-element and multi-element determinations. Analytical Proceedings, 1992, 29, 284-296.	0.4	11
96	Tephrochronology, magnetostratigraphy and mammalian faunas of Middle and Early Pleistocene sediments at two sites on the Old Crow River, northern Yukon Territory, Canada. Quaternary Research, 2013, 79, 75-85.	1.0	11
97	Unusual sources of aluminium and heavy metals in potable waters. Environmental Geochemistry and Health, 1992, 14, 15-18.	1.8	10
98	Distinction between the Youngest Toba Tuff and Oldest Toba Tuff from northern Sumatra based on the area density of spontaneous fission tracks in their glass shards. Quaternary Research, 2014, 82, 388-393.	1.0	10
99	Laboratory studies using naturally occurring "green rust―to aid metal mine water remediation. Journal of Hazardous Materials, 2011, 190, 466-473.	6.5	9
100	A catalogue of major and trace element data for Icelandic Holocene silicic tephra layers. Journal of Quaternary Science, 2020, 35, 122-142.	1.1	9
101	Multiple interpretive errors? Indeed. Reply to: Climate effects of the 74Âka Toba super-eruption: Multiple interpretive errors in â€~A high-precision 40Ar/39Ar age for the Young Toba Tuff and dating of ultra-distal tephra' by Michael Haslam. Quaternary Geochronology, 2013, 18, 173-175.	0.6	8
102	The origin of ferro-manganese oxide coated pumice from the Central Indian Ocean Basin. Quaternary International, 2013, 313-314, 230-239.	0.7	8
103	Zirconium-bearing amphiboles from the Igaliko Dyke Swarm, South Greenland. Mineralogical Magazine, 1989, 53, 107-110.	0.6	8
104	Volcanic glass under fire – a comparison of three complementary analytical methods. X-Ray Spectrometry, 2013, 42, 412-422.	0.9	7
105	Glass compositions and tempo of post-17 ka eruptions from the Afar Triangle recorded in sediments from lakes Ashenge and Hayk, Ethiopia. Quaternary Geochronology, 2017, 37, 15-31.	0.6	7
106	Correlating weathered, microphenocryst-rich, intermediate tephra: An approach combining bulk and single shard analyses from the Lepué Tephra, Chile and Argentina. Quaternary International, 2019, 500, 71-82.	0.7	6
107	Quaternary tephra from the Valles caldera in the volcanic field of the Jemez Mountains of New Mexico identified in western Canada. Quaternary Research, 2019, 91, 813-828.	1.0	6
108	Mercury and gold pollution. Nature, 1992, 357, 369-369.	13.7	5

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109	Refinement of the tephrostratigraphy straddling the northern Patagonian Andes (40–41°S): new tephra markers, reconciling different archives and ascertaining the timing of piedmont deglaciation. Journal of Quaternary Science, 2022, 37, 441-477.	1.1	5
110	The chemistry of iron oxide/hydroxide precipitates associated with acid drainage abandoned metal mines in Wales. Environmental Geochemistry and Health, 1994, 16, 93-93.	1.8	4
111	Age of some Pleistocene interglacial beds and associated fossils in eastern Beringia defined by fission tracks in glass shards of Chester Bluff tephra. Quaternary Research, 2017, 88, 152-159.	1.0	4
112	Fourth Surrey Conference on Plasma Source Mass Spectrometry. Analytical Proceedings, 1992, 29, 274-284.	0.4	3
113	Provenance of late Proterozoic Dalradian tillite clasts, Inner Hebrides, Scotland. Geological Society Special Publication, 1996, 112, 367-377.	0.8	3
114	More than just a convoluted table? Discussion of "Mediterranean tephra stratigraphy revisited: Results from a long terrestrial sequence on Lesvos Island, Greece―by Margari et al. [J. Volcanol. Geotherm. Res. 163 (2007), 34–54]. Journal of Volcanology and Geothermal Research, 2009, 181, 247-250.	0.8	3
115	New fission-track ages of Australasian tektites define two age groups: discriminating between formation and reset ages. Quaternary Geochronology, 2021, 66, 101113.	0.6	3
116	Trace metal uptake by mussels in a recently deceased community, Lake Breitling, Germany: a Laser Ablation ICP-MS study Environmental Geochemistry and Health, 1994, 16, 79-79.	1.8	2
117	Characterization of Lower and Middle Pleistocene tephra beds in the southern plains of western Canada. Canadian Journal of Earth Sciences, 0, , 1-11.	0.6	2
118	Raising the temper—î¼-spot analysis of temper inclusions in experimental ceramics. Journal of Radioanalytical and Nuclear Chemistry, 2012, 291, 25-35.	0.7	1
119	Identification of a Kulshan caldera correlative tephra in the Palouse loess of Washington State, northwest USA. Quaternary Research, 2016, 86, 232-241.	1.0	1
120	â€~Corrigendum to "Trace-element microanalysis by LA-ICP-MS: The quest for comprehensive chemical characterisation of single, sub-10Âμm volcanic glass shards―[Quat. Int. 246 (2011) 57–81]'. Quaternary International, 2012, 276-277, 298.	0.7	0
121	The Carpathian obsidians – Contribution to their FT dating and provenance (ZemplÃn, Slovakia). Journal of Archaeological Science: Reports, 2021, 37, 102861.	0.2	0
122	Discussion on â€~Acheulian and Tephra from Upland Western Maharashtra, (Deccan Volcanic Province), Peninsular India', by Deo <i>et al.</i> 2021 (<i>SP</i> 515). Journal of the Geological Society, 2022, 179, .	0.9	0