

# Keh Penkman

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

5,394  
citations

81434

41  
h-index

107981

68  
g-index

126  
all docs

126  
docs citations

126  
times ranked

5765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of different screening methods for selecting palaeontological bone samples for peptide sequencing. <i>Journal of Proteomics</i> , 2021, 230, 103986.	1.2	3
2	Assessing the intra-crystalline approach to amino acid geochronology of <i>Neogloboquadrina pachyderma</i> (sinistral). <i>Quaternary Geochronology</i> , 2021, 61, 101131.	0.6	4
3	Estimating the dwarfing rate of an extinct Sicilian elephant. <i>Current Biology</i> , 2021, 31, 3606-3612.e7.	1.8	12
4	Amino Acid Racemization Dating. , 2021, , 175-186.		1
5	Trace and major element incorporation into amorphous calcium carbonate (ACC) precipitated from seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 293-311.	1.6	23
6	Age-estimate evidence for a complex Middle to Late Pleistocene fluvial terrace aggradation spanning more than a 100-kyr interglacial-glacial cycle at Sutton Cross, eastern England. <i>Proceedings of the Geologists Association</i> , 2020, 131, 758-777.	0.6	0
7	Aminostratigraphical test of the East European Mammal Zonation for the late Neogene and Quaternary. <i>Quaternary Science Reviews</i> , 2020, 245, 106434.	1.4	6
8	Molecular fossils as a tool for tracking Holocene sea-level change in the Loch of Stenness, Orkney. <i>Journal of Quaternary Science</i> , 2020, 35, 881-891.	1.1	0
9	The role of aspartic acid in reducing coral calcification under ocean acidification conditions. <i>Scientific Reports</i> , 2020, 10, 12797.	1.6	7
10	Environmental conditions at the Last Interglacial (Eemian) site Neumark-Nord 2, Germany inferred from stable isotope analysis of freshwater mollusc opercula. <i>Boreas</i> , 2020, 49, 477-487.	1.2	4
11	The dental proteome of <i>Homo antecessor</i> . <i>Nature</i> , 2020, 580, 235-238.	13.7	100
12	Screening archaeological bone for palaeogenetic and palaeoproteomic studies. <i>PLoS ONE</i> , 2020, 15, e0235146.	1.1	34
13	The palaeontology and dating of the Weybourne Crag™, an important marker horizon in the Early Pleistocene of the southern North Sea basin. <i>Quaternary Science Reviews</i> , 2020, 236, 106177.	1.4	7
14	A review of analytical methods for assessing preservation in waterlogged archaeological wood and their application in practice. <i>Heritage Science</i> , 2020, 8, .	1.0	35
15	The Characteristics and Biological Relevance of Inorganic Amorphous Calcium Carbonate (ACC) Precipitated from Seawater. <i>Crystal Growth and Design</i> , 2019, 19, 4300-4313.	1.4	20
16	Early Pleistocene enamel proteome from Dmanisi resolves <i>Stephanorhinus</i> phylogeny. <i>Nature</i> , 2019, 574, 103-107.	13.7	135
17	New interglacial deposits from Copenhagen, Denmark: marine Isotope Stage 7. <i>Boreas</i> , 2019, 48, 107-118.	1.2	3
18	Bone diagenesis in a Mycenaean secondary burial (Kastrouli, Greece). <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 5213-5230.	0.7	31

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19	Palaeoproteomics resolves sloth relationships. <i>Nature Ecology and Evolution</i> , 2019, 3, 1121-1130.	3.4	91
20	Early Ipswichian (last interglacial) sea level rise in the channel region: Stone Point Site of Special Scientific Interest, Hampshire, England. <i>Proceedings of the Geologists Association</i> , 2019, 130, 1-26.	0.6	3
21	Ancient amino acids from fossil feathers in amber. <i>Scientific Reports</i> , 2019, 9, 6420.	1.6	25
22	Ionisation bias undermines the use of matrix-assisted laser desorption/ionisation for estimating peptide deamidation: Synthetic peptide studies demonstrate electrospray ionisation gives more reliable response ratios. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1049-1057.	0.7	9
23	A new method for enamel amino acid racemization dating: A closed system approach. <i>Quaternary Geochronology</i> , 2019, 50, 29-46.	0.6	28
24	Petrous bone diagenesis: a multi-analytical approach. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 518, 143-154.	1.0	48
25	'Palaeoshellomics'™ reveals the use of freshwater mother-of-pearl in prehistory. <i>ELife</i> , 2019, 8, .	2.8	29
26	Cretaceous dinosaur bone contains recent organic material and provides an environment conducive to microbial communities. <i>ELife</i> , 2019, 8, .	2.8	38
27	Collagen proteins exchange oxygen with demineralisation and gelatinisation reagents and also with atmospheric moisture. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 523-534.	0.7	9
28	Well-dated fluvial sequences as templates for patterns of handaxe distribution: Understanding the record of Acheulean activity in the Thames and its correlatives. <i>Quaternary International</i> , 2018, 480, 118-131.	0.7	24
29	Improving chronological control for environmental sequences from the last glacial period. <i>Quaternary Geochronology</i> , 2018, 43, 40-49.	0.6	6
30	Preparation of bone powder for FTIR-ATR analysis: The particle size effect. <i>Vibrational Spectroscopy</i> , 2018, 99, 167-177.	1.2	46
31	Preservation of feather fibers from the Late Cretaceous dinosaur <i>Shuvuuia deserti</i> raises concern about immunohistochemical analyses on fossils. <i>Organic Geochemistry</i> , 2018, 125, 142-151.	0.9	30
32	Comparing ancient DNA survival and proteome content in 69 archaeological cattle tooth and bone samples from multiple European sites. <i>Journal of Proteomics</i> , 2017, 158, 1-8.	1.2	54
33	Dietary modulation of cortical excitation and inhibition. <i>Journal of Psychopharmacology</i> , 2017, 31, 632-637.	2.0	11
34	Relative sea-level variability during the late Middle Pleistocene: New evidence from eastern England. <i>Quaternary Science Reviews</i> , 2017, 173, 20-39.	1.4	8
35	Evidence for the early onset of the Ipswichian thermal optimum: palaeoecology of Last Interglacial deposits at Whittlesey, eastern England. <i>Journal of the Geological Society</i> , 2017, 174, 988-1003.	0.9	10
36	Palaeogenomes of Eurasian straight-tusked elephants challenge the current view of elephant evolution. <i>ELife</i> , 2017, 6, .	2.8	50

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37	Amino Acid Racemization. Encyclopedia of Earth Sciences Series, 2017, , 14-15.	0.1	1
38	Provenancing Archaeological Wool Textiles from Medieval Northern Europe by Light Stable Isotope Analysis ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ , $\delta^2\text{H}$ ). PLoS ONE, 2016, 11, e0162330.	1.1	24
39	Scientific drilling projects in ancient lakes: Integrating geological and biological histories. Global and Planetary Change, 2016, 143, 118-151.	1.6	33
40	The role of skeletal micro-architecture in diagenesis and dating of <i>Acropora palmata</i> . Geochimica Et Cosmochimica Acta, 2016, 183, 153-175.	1.6	19
41	The effects of demineralisation and sampling point variability on the measurement of glutamine deamidation in type I collagen extracted from bone. Journal of Archaeological Science, 2016, 69, 29-38.	1.2	57
42	Tuning hardness in calcite by incorporation of amino acids. Nature Materials, 2016, 15, 903-910.	13.3	183
43	Identification of the earliest collagen- and plant-based coatings from Neolithic artefacts (Nahal Tj ETQq1 1 0.784314 rgBT / Overlock 10 1.6 26	1.6	26
44	Lessons from Star Carr on the vulnerability of organic archaeological remains to environmental change. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12957-12962.	3.3	16
45	Pecten as a new substrate for $\text{IcPD}$ dating: The quaternary raised beaches in the Gulf of Corinth, Greece. Quaternary Geochronology, 2016, 31, 40-52.	0.6	13
46	Protein sequences bound to mineral surfaces persist into deep time. ELife, 2016, 5, .	2.8	176
47	Use of the 2-chlorotriethyl chloride resin for microwave-assisted solid phase peptide synthesis. Biopolymers, 2015, 104, 506-514.	1.2	23
48	Biominaleralisation by earthworms – an investigation into the stability and distribution of amorphous calcium carbonate. Geochemical Transactions, 2015, 16, 4.	1.8	36
49	Middle and Late Pleistocene environmental history of the Marsworth area, south-central England. Proceedings of the Geologists Association, 2015, 126, 18-49.	0.6	18
50	Apatite for destruction: investigating bone degradation due to high acidity at Star Carr. Journal of Archaeological Science, 2015, 59, 159-168.	1.2	28
51	Testing the effect of bleaching on the bivalve <i>Glycymeris</i> : A case study of amino acid geochronology on key Mediterranean raised beach deposits. Quaternary Geochronology, 2015, 25, 49-65.	0.6	22
52	Wet degradation of keratin proteins: linking amino acid, elemental and isotopic composition. Rapid Communications in Mass Spectrometry, 2014, 28, 2121-2133.	0.7	22
53	Palaeoecology of a late MIS 7 interglacial deposit from eastern England. Quaternary International, 2014, 341, 27-45.	0.7	10
54	Late persistence of the Acheulian in southern Britain in an MIS 8 interstadial: evidence from Harnham, Wiltshire. Quaternary Science Reviews, 2014, 101, 159-176.	1.4	32

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55	Walking on Eggshells: A Study of Egg Use in Anglo-Scandinavian York Based on Eggshell Identification Using ZooMS. <i>International Journal of Osteoarchaeology</i> , 2014, 24, 247-255.	0.6	20
56	An Integrated Approach to the Taxonomic Identification of Prehistoric Shell Ornaments. <i>PLoS ONE</i> , 2014, 9, e99839.	1.1	17
57	An enhanced record of MIS 9 environments, geochronology and geoarchaeology: data from construction of the High Speed 1 (London-Channel Tunnel) rail-link and other recent investigations at Purfleet, Essex, UK. <i>Proceedings of the Geologists Association</i> , 2013, 124, 417-476.	0.6	50
58	Intra-crystalline protein diagenesis (IcPD) in <i>Patella vulgata</i> . Part I: Isolation and testing of the closed system. <i>Quaternary Geochronology</i> , 2013, 16, 144-157.	0.6	44
59	Testing the limitations of artificial protein degradation kinetics using known-age massive <i>Porites</i> coral skeletons. <i>Quaternary Geochronology</i> , 2013, 16, 87-109.	0.6	44
60	Results from an amino acid racemization inter-laboratory proficiency study; design and performance evaluation. <i>Quaternary Geochronology</i> , 2013, 16, 183-197.	0.6	23
61	Characterisation and dynamics of dissolved organic matter in the Northwestern Mediterranean Sea. <i>Progress in Oceanography</i> , 2013, 119, 78-89.	1.5	13
62	ZooMS: making eggshell visible in the archaeological record. <i>Journal of Archaeological Science</i> , 2013, 40, 1797-1804.	1.2	48
63	An aminostratigraphy for the British Quaternary based on <i>Bithynia opercula</i> . <i>Quaternary Science Reviews</i> , 2013, 61, 111-134.	1.4	95
64	Amino acid geochronology: Recent perspectives. <i>Quaternary Geochronology</i> , 2013, 16, 1-2.	0.6	9
65	Isolation of the intra-crystalline proteins and kinetic studies in <i>Struthio camelus</i> (ostrich) eggshell for amino acid geochronology. <i>Quaternary Geochronology</i> , 2013, 16, 110-128.	0.6	43
66	Age and palaeoenvironment of the enigmatic Arternian Interglacial " Evidence from the Muschelton at Voigtstedt/Hackelsberg (Thuringia, Central Germany). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 68-85.	1.0	3
67	Intra-crystalline protein diagenesis (IcPD) in <i>Patella vulgata</i> . Part II: Breakdown and temperature sensitivity. <i>Quaternary Geochronology</i> , 2013, 16, 158-172.	0.6	38
68	New Experimental Evidence for In-Chain Amino Acid Racemization of Serine in a Model Peptide. <i>Analytical Chemistry</i> , 2013, 85, 5835-5842.	3.2	30
69	Timing and depositional environments of a Middle Pleistocene glaciation of northeast England: New evidence from Warren House Gill, County Durham. <i>Quaternary Science Reviews</i> , 2012, 44, 180-212.	1.4	14
70	Assessing amino acid racemization variability in coral intra-crystalline protein for geochronological applications. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 338-353.	1.6	56
71	Protein and mineral characterisation of rendered meat and bone meal. <i>Food Chemistry</i> , 2012, 134, 1267-1278.	4.2	11
72	Integrated chronological control on an archaeologically significant Pleistocene river terrace sequence: the Thames-Medway, eastern Essex, England. <i>Proceedings of the Geologists Association</i> , 2012, 123, 87-108.	0.6	9

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73	A chronological framework for the British Quaternary based on Bithynia opercula. <i>Nature</i> , 2011, 476, 446-449.	13.7	131
74	Recent advances in aminostratigraphic methods and data management. <i>Eos</i> , 2011, 92, 444-444.	0.1	1
75	From riches to rags: organic deterioration at Star Carr. <i>Journal of Archaeological Science</i> , 2011, 38, 2818-2832.	1.2	36
76	Exceptional preservation of a prehistoric human brain from Heslington, Yorkshire, UK. <i>Journal of Archaeological Science</i> , 2011, 38, 1641-1654.	1.2	38
77	Inland shell midden site-formation: Investigation into a late Pleistocene to early Holocene midden from TrĂng An, Northern Vietnam. <i>Quaternary International</i> , 2011, 239, 153-169.	0.7	55
78	Amino acid racemization dating of marine shells: A mound of possibilities. <i>Quaternary International</i> , 2011, 239, 114-124.	0.7	72
79	Evolution of the Thames estuary during MIS 9: insights from the Shoeburyness area, Essex. <i>Proceedings of the Geologists Association</i> , 2011, 122, 397-418.	0.6	9
80	Direct terrestrial-marine correlation demonstrates surprisingly late onset of the last interglacial in central Europe. <i>Quaternary Research</i> , 2011, 75, 213-218.	1.0	53
81	Humid periods in southern Arabia: Windows of opportunity for modern human dispersal. <i>Geology</i> , 2011, 39, 1115-1118.	2.0	152
82	Amino acid geochronology: its impact on our understanding of the Quaternary stratigraphy of the British Isles. <i>Journal of Quaternary Science</i> , 2010, 25, 501-514.	1.1	12
83	The position and context of Middle Palaeolithic industries from the Ebbsfleet Valley, Kent, UK. <i>Journal of Quaternary Science</i> , 2010, 25, 931-944.	1.1	16
84	The impact of random natural variability on aspartic acid racemization ratios in enamel from different types of human teeth. <i>Forensic Science International</i> , 2010, 200, 148-152.	1.3	12
85	Amino acid geochronology of the type Cromerian of West Runton, Norfolk, UK. <i>Quaternary International</i> , 2010, 228, 25-37.	0.7	36
86	Is amino acid racemization a useful tool for screening for ancient DNA in bone?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2971-2977.	1.2	71
87	The age and stratigraphic context of the Easington Raised Beach, County Durham, UK. <i>Proceedings of the Geologists Association</i> , 2009, 120, 183-198.	0.6	22
88	Age estimation of archaeological remains using amino acid racemization in dental enamel: A comparison of morphological, biochemical, and known ages-at-death. <i>American Journal of Physical Anthropology</i> , 2009, 140, 244-252.	2.1	30
89	Biostratigraphic and aminostratigraphic constraints on the age of the Middle Pleistocene glacial succession in north Norfolk, UK. <i>Journal of Quaternary Science</i> , 2009, 24, 557-580.	1.1	90
90	Archaeological collagen: Why worry about collagen diagenesis?. <i>Archaeological and Anthropological Sciences</i> , 2009, 1, 31-42.	0.7	125

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91	Preservation of ancient DNA in thermally damaged archaeological bone. <i>Die Naturwissenschaften</i> , 2009, 96, 267-278.	0.6	62
92	Assessing the potential for using biogenic calcites as doseimeters for luminescence dating. <i>Radiation Measurements</i> , 2009, 44, 429-433.	0.7	30
93	Differentiation of MIS 9 and MIS 11 in the continental record: vegetational, faunal, aminostratigraphic and sea-level evidence from coastal sites in Essex, UK. <i>Quaternary Science Reviews</i> , 2009, 28, 2342-2373.	1.4	49
94	Probable human hair found in a fossil hyaena coprolite from Gladysvale cave, South Africa. <i>Journal of Archaeological Science</i> , 2009, 36, 1269-1276.	1.2	46
95	The application of amino acid racemization in the acid soluble fraction of enamel to the estimation of the age of human teeth. <i>Forensic Science International</i> , 2008, 175, 11-16.	1.3	44
96	A New Approach to Amino Acid Racemization in Enamel: Testing of a Less Destructive Sampling Methodology*. <i>Journal of Forensic Sciences</i> , 2008, 53, 910-916.	0.9	8
97	Comparing the survival of osteocalcin and mtDNA in archaeological bone from four European sites. <i>Journal of Archaeological Science</i> , 2008, 35, 1756-1764.	1.2	73
98	New evidence for complex climate change in MIS 11 from Hoxne, Suffolk, UK. <i>Quaternary Science Reviews</i> , 2008, 27, 652-668.	1.4	111
99	Molecular organic matter in speleothems and its potential as an environmental proxy. <i>Quaternary Science Reviews</i> , 2008, 27, 905-921.	1.4	63
100	Closed-system behaviour of the intra-crystalline fraction of amino acids in mollusc shells. <i>Quaternary Geochronology</i> , 2008, 3, 2-25.	0.6	177
101	Comment on "Protein Sequences from Mastodon and <i>Tyrannosaurus rex</i> Revealed by Mass Spectrometry". <i>Science</i> , 2008, 319, 33-33.	6.0	127
102	Terrestrial environments during MIS 11: evidence from the Palaeolithic site at West Stow, Suffolk, UK. <i>Quaternary Science Reviews</i> , 2007, 26, 1236-1300.	1.4	131
103	Testing the aminostratigraphy of fluvial archives: the evidence from intra-crystalline proteins within freshwater shells. <i>Quaternary Science Reviews</i> , 2007, 26, 2958-2969.	1.4	88
104	Ancient Biomolecules from Deep Ice Cores Reveal a Forested Southern Greenland. <i>Science</i> , 2007, 317, 111-114.	6.0	393
105	Age-estimate evidence for Middle-Late Pleistocene aggradation of River Nene 1st Terrace deposits at Whittlesey, eastern England. <i>Proceedings of the Geologists Association</i> , 2007, 118, 283-300.	0.6	20
106	Structural and chemical changes of thermally treated bone apatite. <i>Journal of Materials Science</i> , 2007, 42, 9807-9816.	1.7	110
107	A Levallois Knapping Site at West Thurrock, Lower Thames, UK: its Quaternary Context, Environment and Age. <i>Proceedings of the Prehistoric Society, London</i> , 2006, 72, 21-52.	0.2	24
108	WALKER M. 2005. <i>Quaternary Dating Methods</i> . xvii + 286 pp. Chichester: J. Wiley & Son. Price £24.95 (paperback). ISBN 0 470 86927 5. <i>Geological Magazine</i> , 2006, 143, 412-412.	0.9	0

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109	The earliest record of human activity in northern Europe. <i>Nature</i> , 2005, 438, 1008-1012.	13.7	390
110	New faunal analyses and amino acid dating of the Lower Palaeolithic site at East Farm, Barnham, Suffolk. <i>Proceedings of the Geologists Association</i> , 2005, 116, 363-377.	0.6	46
111	Excavations at the Lower Palaeolithic site at Elveden, Suffolk, UK. <i>Proceedings of the Prehistoric Society</i> , London, 2005, 71, 1-61.	0.2	57
112	Biochemical and physical correlates of DNA contamination in archaeological human bones and teeth excavated at Matera, Italy. <i>Journal of Archaeological Science</i> , 2005, 32, 785-793.	1.2	92
113	An assessment of the microbial contribution to aquatic dissolved organic nitrogen using amino acid enantiomeric ratios. <i>Organic Geochemistry</i> , 2005, 36, 1099-1107.	0.9	23
114	Defining the Island Dwarfing Rate of an Extinct Sicilian Elephant Using Ancient DNA. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0