Matthew Collins

List of Publications by Year
in descending order

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234 papers	17,750 citations	10389 72 h-index	17592 121 g-index
245 all docs	245 docs citations	245 times ranked	12143 citing authors

#	Article	IF	Citations
1	The genome of a Late Pleistocene human from a Clovis burial site in western Montana. Nature, 2014, 506, 225-229.	27.8	500
2	The survival of organic matter in bone: a review. Archaeometry, 2002, 44, 383-394.	1.3	487
3	Pathogens and host immunity in the ancient human oral cavity. Nature Genetics, 2014, 46, 336-344.	21.4	482
4	The half-life of DNA in bone: measuring decay kinetics in 158 dated fossils. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4724-4733.	2.6	478
5	Species identification by analysis of bone collagen using matrixâ€assisted laser desorption/ionisation timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 3843-3854.	1.5	467
6	Age estimation: The state of the art in relation to the specific demands of forensic practise. International Journal of Legal Medicine, 2000, 113, 129-136.	2.2	403
7	Ancient Biomolecules from Deep Ice Cores Reveal a Forested Southern Greenland. Science, 2007, 317, 111-114.	12.6	393
8	The earliest record of human activity in northern Europe. Nature, 2005, 438, 1008-1012.	27.8	390
9	Neanderthal medics? Evidence for food, cooking, and medicinal plants entrapped in dental calculus. Die Naturwissenschaften, 2012, 99, 617-626.	1.6	315
10	Characterisation of microbial attack on archaeological bone. Journal of Archaeological Science, 2004, 31, 87-95.	2.4	308
11	Ancient proteins resolve the evolutionary history of Darwinâ€™s South American ungulates. Nature, 2015, 522, 81-84.	27.8	273
12	Distinguishing between archaeological sheep and goat bones using a single collagen peptide. Journal of Archaeological Science, 2010, 37, 13-20.	2.4	270
13	Palaeoproteomic evidence identifies archaic hominins associated with the ChÃ¢telperronian at the Grotte du Renne. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11162-11167.	7.1	251
14	The thermal history of human fossils and the likelihood of successful DNA amplification. Journal of Human Evolution, 2003, 45, 203-217.	2.6	227
15	Whole-Genome Shotgun Sequencing of Mitochondria from Ancient Hair Shafts. Science, 2007, 317, 1927-1930.	12.6	220
16	The future of ancient DNA: Technical advances and conceptual shifts. BioEssays, 2015, 37, 284-293.	2.5	209
17	Diagenesis of archaeological bone and tooth. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 491, 21-37.	2.3	207
18	A new era in palaeomicrobiology: prospects for ancient dental calculus as a long-term record of the human oral microbiome. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130376.	4.0	203

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19	Proteomic Analysis of a Pleistocene Mammoth Femur Reveals More than One Hundred Ancient Bone Proteins. Journal of Proteome Research, 2012, 11, 917-926.	3.7	196
20	A Basic Mathematical Simulation of the Chemical Degradation of Ancient Collagen. Journal of Archaeological Science, 1995, 22, 175-183.	2.4	189
21	Not just old but old and cold?. Nature, 2001, 410, 771-772.	27.8	186
22	Direct evidence of milk consumption from ancient human dental calculus. Scientific Reports, 2014, 4, 7104.	3.3	184
23	Closed-system behaviour of the intra-crystalline fraction of amino acids in mollusc shells. Quaternary Geochronology, 2008, 3, 2-25.	1.4	177
24	Protein sequences bound to mineral surfaces persist into deep time. ELife, 2016, 5, .	6.0	176
25	A new model for ancient DNA decay based on paleogenomic meta-analysis. Nucleic Acids Research, 2017, 45, 6310-6320.	14.5	168
26	Racemization of aspartic acid in human proteins. Ageing Research Reviews, 2002, 1, 43-59.	10.9	165
27	A guide to ancient protein studies. Nature Ecology and Evolution, 2018, 2, 791-799.	7.8	163
28	Bone diagenesis in the European Holocene I: patterns and mechanisms. Journal of Archaeological Science, 2007, 34, 1485-1493.	2.4	161
29	Bone diagenesis in the European Holocene II: taphonomic and environmental considerations. Journal of Archaeological Science, 2007, 34, 1523-1531.	2.4	153
30	Intrinsic challenges in ancient microbiome reconstruction using 16S rRNA gene amplification. Scientific Reports, 2015, 5, 16498.	3.3	153
31	Biology of Living Brachiopods. Advances in Marine Biology, 1992, 28, 175-387.	1.4	149
32	Mineralization of the metre-long biosilica structures of glass sponges is templated on hydroxylated collagen. Nature Chemistry, 2010, 2, 1084-1088.	13.6	149
33	Ancient goat genomes reveal mosaic domestication in the Fertile Crescent. Science, 2018, 361, 85-88.	12.6	149
34	Predicting protein decomposition: the case of asparticâ€“acid racemization kinetics. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 51-64.	4.0	147
35	The significance of a geochemically isolated intracrystalline organic fraction within biominerals. Organic Geochemistry, 1995, 23, 1059-1065.	1.8	141
36	Did the first farmers of central and eastern Europe produce dairy foods?. Antiquity, 2005, 79, 882-894.	1.0	140

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37	Animal origin of 13th-century uterine vellum revealed using noninvasive peptide fingerprinting. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15066-15071.	7.1	140
38	Ancient cattle genomics, origins, and rapid turnover in the Fertile Crescent. Science, 2019, 365, 173-176.	12.6	138
39	Bone preservation and DNA amplification. Archaeometry, 2002, 44, 395-404.	1.3	133
40	Aspartic acid racemization: evidence for marked longevity of elastin in human skin. British Journal of Dermatology, 2003, 149, 951-959.	1.5	133
41	Molecular phylogeny of the extinct cave lion Panthera leo spelaea. Molecular Phylogenetics and Evolution, 2004, 30, 841-849.	2.7	131
42	Starch granules, dental calculus and new perspectives on ancient diet. Journal of Archaeological Science, 2009, 36, 248-255.	2.4	131
43	A chronological framework for the British Quaternary based on Bithynia opercula. Nature, 2011, 476, 446-449.	27.8	131
44	The taphonomy of cooked bone: characterizing boiling and its physico-chemical effects. Archaeometry, 2002, 44, 485-494.	1.3	127
45	Comment on "Protein Sequences from Mastodon and Tyrannosaurus rex Revealed by Mass Spectrometry". Science, 2008, 319, 33-33.	12.6	127
46	Archaeological collagen: Why worry about collagen diagenesis?. Archaeological and Anthropological Sciences, 2009, 1, 31-42.	1.8	125
47	Siteâ€specific deamidation of glutamine: a new marker of bone collagen deterioration. Rapid Communications in Mass Spectrometry, 2012, 26, 2319-2327.	1.5	124
48	Ancient human microbiomes. Journal of Human Evolution, 2015, 79, 125-136.	2.6	123
49	Sorption by mineral surfaces: Rebirth of the classical condensation pathway for kerogen formation?. Geochimica Et Cosmochimica Acta, 1995, 59, 2387-2391.	3.9	112
50	Structural and chemical changes of thermally treated bone apatite. Journal of Materials Science, 2007, 42, 9807-9816.	3.7	110
51	Assessing the Extent of Bone Degradation Using Glutamine Deamidation in Collagen. Analytical Chemistry, 2012, 84, 9041-9048.	6.5	110
52	Ancient proteins from ceramic vessels at Ã‡atalhÃ¶yÃ¼k West reveal the hidden cuisine of early farmers. Nature Communications, 2018, 9, 4064.	12.8	105
53	Fish â€™n chips: ZooMS peptide mass fingerprinting in a 96 well plate format to identify fish bone fragments. Journal of Archaeological Science, 2011, 38, 1502-1510.	2.4	103
54	An integrated stable isotope study of plants and animals from Kouphovouno, southern Greece: a new look at Neolithic farming. Journal of Archaeological Science, 2014, 42, 201-215.	2.4	103

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55	Genomic signals of migration and continuity in Britain before the Anglo-Saxons. Nature Communications, 2016, 7, 10326.	12.8	100
56	What Happened Here? Bone Histology as a Tool in Decoding the Postmortem Histories of Archaeological Bone from Castricum, The Netherlands. International Journal of Osteoarchaeology, 2012, 22, 537-548.	1.2	99
57	Proteomic evidence of dietary sources in ancient dental calculus. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180977.	2.6	97
58	An aminostratigraphy for the British Quaternary based on Bithynia opercula. Quaternary Science Reviews, 2013, 61, 111-134.	3.0	95
59	Sub-micron spongiform porosity is the major ultra-structural alteration occurring in archaeological bone. International Journal of Osteoarchaeology, 2002, 12, 407-414.	1.2	93
60	Using ZooMS to identify fragmentary bone from the Late Middle/Early Upper Palaeolithic sequence of Les CottÃ©s, France. Journal of Archaeological Science, 2015, 54, 279-286.	2.4	93
61	Biochemical and physical correlates of DNA contamination in archaeological human bones and teeth excavated at Matera, Italy. Journal of Archaeological Science, 2005, 32, 785-793.	2.4	92
62	Palaeoproteomics resolves sloth relationships. Nature Ecology and Evolution, 2019, 3, 1121-1130.	7.8	91
63	Testing the aminostratigraphy of fluvial archives: the evidence from intra-crystalline proteins within freshwater shells. Quaternary Science Reviews, 2007, 26, 2958-2969.	3.0	88
64	Osteocalcin protein sequences of Neanderthals and modern primates. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4409-4413.	7.1	85
65	Beyond the grave: variability in Neolithic diets in Southern Germany?. Journal of Archaeological Science, 2006, 33, 39-48.	2.4	84
66	Evidence for mummification in Bronze Age Britain. Antiquity, 2005, 79, 529-546.	1.0	83
67	A multidisciplinary study of archaeological grape seeds. Die Naturwissenschaften, 2010, 97, 205-217.	1.6	82
68	Mammoth and Mastodon collagen sequences; survival and utility. Geochimica Et Cosmochimica Acta, 2011, 75, 2007-2016.	3.9	82
69	Enamel proteome shows that Gigantopithecus was an early diverging pongine. Nature, 2019, 576, 262-265.	27.8	82
70	Lipid distribution in a subtropical southern China stalagmite as a record of soil ecosystem response to paleoclimate change. Quaternary Research, 2003, 60, 340-347.	1.7	81
71	Collagen survival and its use for species identification in Holocene-lower Pleistocene bone fragments from British archaeological and paleontological sites. Antiqua, 2011, 1, 1.	3.0	81
72	A novel and non-destructive approach for ZooMS analysis: ammonium bicarbonate buffer extraction. Archaeological and Anthropological Sciences, 2011, 3, 281-289.	1.8	80

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73	Detecting milk proteins in ancient pots. Nature, 2000, 408, 312-312.	27.8	79
74	Faunal record identifies Bering isthmus conditions as constraint to end-Pleistocene migration to the New World. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132167.	2.6	78
75	A practical approach to the identification of low temperature heated bone using TEM. Journal of Archaeological Science, 2003, 30, 1393-1399.	2.4	75
76	Sequence preservation of osteocalcin protein and mitochondrial DNA in bison bones older than 55 ka. Geology, 2002, 30, 1099.	4.4	73
77	Comparing the survival of osteocalcin and mtDNA in archaeological bone from four European sites. Journal of Archaeological Science, 2008, 35, 1756-1764.	2.4	73
78	Searching for Scandinavians in pre-Viking Scotland: molecular fingerprinting of Early Medieval combs. Journal of Archaeological Science, 2014, 41, 1-6.	2.4	72
79	Is amino acid racemization a useful tool for screening for ancient DNA in bone?. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2971-2977.	2.6	71
80	Preservation of the bone protein osteocalcin in dinosaurs. Geology, 1992, 20, 871.	4.4	70
81	Age estimation based on aspartic acid racemization in elastin from the yellow ligaments. International Journal of Legal Medicine, 2003, 117, 96-101.	2.2	68
82	Long-Term Resilience of Late Holocene Coastal Subsistence System in Southeastern South America. PLoS ONE, 2014, 9, e93854.	2.5	67
83	An evaluation of the reactivity of synthetic and natural apatites in the presence of aqueous metals. Science of the Total Environment, 2009, 407, 2953-2965.	8.0	66
84	Unlocking Ancient Protein Palimpsests. Science, 2014, 343, 1320-1322.	12.6	66
85	The York Gospels: a 1000-year biological palimpsest. Royal Society Open Science, 2017, 4, 170988.	2.4	66
86	The Use of Smallâ€Angle Xâ€Ray Diffraction Studies for the Analysis of Structural Features in Archaeological Samples. Archaeometry, 2001, 43, 117-129.	1.3	64
87	The identification of prehistoric dairying activities in the Western Isles of Scotland: an integrated biomolecular approach. Journal of Archaeological Science, 2005, 32, 91-103.	2.4	63
88	Molecular organic matter in speleothems and its potential as an environmental proxy. Quaternary Science Reviews, 2008, 27, 905-921.	3.0	63
89	New criteria for the molecular identification of cereal grains associated with archaeological artefacts. Scientific Reports, 2017, 7, 6633.	3.3	63
90	A preliminary investigation of the application of differential scanning calorimetry to the study of collagen degradation in archaeological bone. Thermochimica Acta, 2000, 365, 129-139.	2.7	62

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91	Diagenesis and survival of osteocalcin in archaeological bone. Journal of Archaeological Science, 2005, 32, 105-113.	2.4	62
92	Preservation of ancient DNA in thermally damaged archaeological bone. Die Naturwissenschaften, 2009, 96, 267-278.	1.6	62
93	A 5700 year-old human genome and oral microbiome from chewed birch pitch. Nature Communications, 2019, 10, 5520.	12.8	61
94	A method of isolating the collagen (I) Î±2 chain carboxytelopeptide for species identification in bone fragments. Analytical Biochemistry, 2008, 374, 325-334.	2.4	60
95	Proteomics and Coast Salish blankets: a tale of shaggy dogs?. Antiquity, 2011, 85, 1418-1432.	1.0	60
96	Experimental evidence for condensation reactions between sugars and proteins in carbonate skeletons. Geochimica Et Cosmochimica Acta, 1992, 56, 1539-1544.	3.9	59
97	Insights into the processes behind the contamination of degraded human teeth and bone samples with exogenous sources of DNA. International Journal of Osteoarchaeology, 2006, 16, 156-164.	1.2	59
98	Quality assurance in age estimation based on aspartic acid racemisation. International Journal of Legal Medicine, 2000, 114, 83-86.	2.2	58
99	Ancient starch: Cooked or just old?. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E145, author reply E146.	7.1	58
100	Mid-Holocene vertebrate bone Concentration-LagerstÃtte on oceanic island Mauritius provides a window into the ecosystem of the dodo (Raphus cucullatus). Quaternary Science Reviews, 2009, 28, 14-24.	3.0	56
101	Assessing amino acid racemization variability in coral intra-crystalline protein for geochronological applications. Geochimica Et Cosmochimica Acta, 2012, 86, 338-353.	3.9	56
102	Identifying Archaeological Bone via Non-Destructive ZooMS and the Materiality of Symbolic Expression: Examples from Iroquoian Bone Points. Scientific Reports, 2019, 9, 11027.	3.3	56
103	A review of the methodological aspects of aspartic acid racemization analysis for use in forensic science. Forensic Science International, 1999, 103, 113-124.	2.2	55
104	The Removal of Protein from Mineral Surfaces: Implications for Residue Analysis of Archaeological Materials. Journal of Archaeological Science, 2002, 29, 1077-1082.	2.4	54
105	Sorting the butchered from the boiled. Journal of Archaeological Science, 2010, 37, 62-69.	2.4	54
106	Exaggerated expectations in ancient starch research and the need for new taphonomic and authenticity criteria. Facets, 2018, 3, 777-798.	2.4	54
107	Paging through history: parchment as a reservoir of ancient DNA for next generation sequencing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130379.	4.0	52
108	Medieval womenâ€™s early involvement in manuscript production suggested by lapis lazuli identification in dental calculus. Science Advances, 2019, 5, eaau7126.	10.3	52

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109	An improved method for the immunological detection of mineral bound protein using hydrofluoric acid and direct capture. Journal of Immunological Methods, 2000, 236, 89-97.	1.4	51
110	A mass spectrometry method for the determination of the species of origin of gelatine in foods and pharmaceutical products. Food Chemistry, 2016, 190, 276-284.	8.2	51
111	Ancient biomolecules in Quaternary palaeoecology. Quaternary Science Reviews, 2012, 33, 1-13.	3.0	50
112	The strange case of Apigliano: early 'fossilization' of medieval bone in southern Italy. Archaeometry, 2002, 44, 405-415.	1.3	49
113	The effects of conformational constraints on aspartic acid racemization. Organic Geochemistry, 1998, 29, 1227-1232.	1.8	48
114	ZooMS: making eggshell visible in the archaeological record. Journal of Archaeological Science, 2013, 40, 1797-1804.	2.4	48
115	Proteomic evaluation of the biodegradation of wool fabrics in experimental burials. International Biodeterioration and Biodegradation, 2013, 80, 48-59.	3.9	48
116	Petrous bone diagenesis: a multi-analytical approach. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 518, 143-154.	2.3	48
117	Microfocus Small Angle X-ray Scattering Reveals Structural Features in Archaeological Bone Samples; Detection of Changes in Bone Mineral Habit and Size. Calcified Tissue International, 2002, 70, 103-110.	3.1	46
118	Characterisation of novel Î±â€keratin peptide markers for species identification in keratinous tissues using mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2685-2698.	1.5	46
119	Questioning new answers regarding Holocene chicken domestication in China. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2415.	7.1	46
120	Preparation of bone powder for FTIR-ATR analysis: The particle size effect. Vibrational Spectroscopy, 2018, 99, 167-177.	2.2	46
121	New insights into Neolithic milk consumption through proteomic analysis of dental calculus. Archaeological and Anthropological Sciences, 2019, 11, 6183-6196.	1.8	45
122	The application of amino acid racemization in the acid soluble fraction of enamel to the estimation of the age of human teeth. Forensic Science International, 2008, 175, 11-16.	2.2	44
123	Testing the limitations of artificial protein degradation kinetics using known-age massive Porites coral skeletons. Quaternary Geochronology, 2013, 16, 87-109.	1.4	44
124	The dental calculus metabolome in modern and historic samples. Metabolomics, 2017, 13, 134.	3.0	44
125	Automated classification of starch granules using supervised pattern recognition of morphological properties. Journal of Archaeological Science, 2010, 37, 594-604.	2.4	43
126	Isolation of the intra-crystalline proteins and kinetic studies in Struthio camelus (ostrich) eggshell for amino acid geochronology. Quaternary Geochronology, 2013, 16, 110-128.	1.4	43

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127	Paleoproteomics. Chemical Reviews, 2022, 122, 13401-13446.	47.7	42
128	Towards the application of desorption electrospray ionisation mass spectrometry (DESI-MS) to the analysis of ancient proteins from artefacts. Journal of Archaeological Science, 2009, 36, 2145-2154.	2.4	41
129	Long-term survival of ancient DNA in Egypt: Response to Zink and Nerlich (2003). American Journal of Physical Anthropology, 2005, 128, 110-114.	2.1	40
130	Preservation of the metaproteome: variability of protein preservation in ancient dental calculus. Science and Technology of Archaeological Research, 2017, 3, 58-70.	2.4	39
131	Preservation of fossil biopolymeric structures: Conclusive immunological evidence. Geochimica Et Cosmochimica Acta, 1991, 55, 2253-2257.	3.9	38
132	Exceptional preservation of a prehistoric human brain from Heslington, Yorkshire, UK. Journal of Archaeological Science, 2011, 38, 1641-1654.	2.4	38
133	Intra-crystalline protein diagenesis (IcPD) in Patella vulgata. Part II: Breakdown and temperature sensitivity. Quaternary Geochronology, 2013, 16, 158-172.	1.4	38
134	The challenge of identifying tuberculosis proteins in archaeological tissues. Journal of Archaeological Science, 2016, 66, 146-153.	2.4	37
135	On the standardization of ZooMS nomenclature. Journal of Proteomics, 2021, 235, 104041.	2.4	37
136	Mapping the Elephants of the 19th Century East African Ivory Trade with a Multi-Isotope Approach. PLoS ONE, 2016, 11, e0163606.	2.5	37
137	Amino acid geochronology of the type Cromerian of West Runton, Norfolk, UK. Quaternary International, 2010, 228, 25-37.	1.5	36
138	DeamiDATE 1.0: Site-specific deamidation as a tool to assess authenticity of members of ancient proteomes. Journal of Archaeological Science, 2020, 115, 105080.	2.4	36
139	Modeling Deamidation in Sheep Î±-Keratin Peptides and Application to Archeological Wool Textiles. Analytical Chemistry, 2014, 86, 567-575.	6.5	35
140	Species identification by peptide mass fingerprinting (PMF) in fibre products preserved by association with copper-alloy artefacts. Journal of Archaeological Science, 2014, 49, 524-535.	2.4	35
141	Variations in glutamine deamidation for a ChÃ¢telperronian bone assemblage as measured by peptide mass fingerprinting of collagen. Science and Technology of Archaeological Research, 2017, 3, 15-27.	2.4	34
142	Screening archaeological bone for palaeogenetic and palaeoproteomic studies. PLoS ONE, 2020, 15, e0235146.	2.5	34
143	Finding Britain's last hunter-gatherers: A new biomolecular approach to â€˜unidentifiableâ€™ bone fragments utilising bone collagen. Journal of Archaeological Science, 2016, 73, 55-61.	2.4	33
144	So you want to do biocodicology? A field guide to the biological analysis of parchment. Heritage Science, 2019, 7, .	2.3	33

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145	Late persistence of the Acheulian in southern Britain in an MIS 8 interstadial: evidence from Harnham, Wiltshire. Quaternary Science Reviews, 2014, 101, 159-176.	3.0	32
146	Bone diagenesis in a Mycenaean secondary burial (Kastrouli, Greece). Archaeological and Anthropological Sciences, 2019, 11, 5213-5230.	1.8	31
147	Age estimation of archaeological remains using amino acid racemization in dental enamel: A comparison of morphological, biochemical, and known agesâ€ɑtâ€ɗeath. American Journal of Physical Anthropology, 2009, 140, 244-252.	2.1	30
148	New Experimental Evidence for In-Chain Amino Acid Racemization of Serine in a Model Peptide. Analytical Chemistry, 2013, 85, 5835-5842.	6.5	30
149	Barcoding the largest animals on Earth: ongoing challenges and molecular solutions in the taxonomic identification of ancient cetaceans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150332.	4.0	30
150	Palaeoproteomics confirm earliest domesticated sheep in southern Africa ca. 2000 BP. Scientific Reports, 2021, 11, 6631.	3.3	28
151	Growth rate and substrate-related mortality of a benthic brachiopod population. Lethaia, 1991, 24, 1-11.	1.4	26
152	Recovery of DNA from archaeological insect remains: first results, problems and potential. Journal of Archaeological Science, 2009, 36, 1179-1183.	2.4	26
153	Using combined biomolecular methods to explore whale exploitation and social aggregation in hunterâ€“gathererâ€“fisher society in Tierra del Fuego. Journal of Archaeological Science: Reports, 2016, 6, 757-767.	0.5	26
154	Advances in identifying archaeological traces of horn and other keratinous hard tissues. Studies in Conservation, 2015, 60, 393-417.	1.1	25
155	Species identification using ZooMS, with reference to the exploitation of animal resources in the medieval town of Odense. Danish Journal of Archaeology, 2018, 7, 139-153.	0.7	25
156	Ancient amino acids from fossil feathers in amber. Scientific Reports, 2019, 9, 6420.	3.3	25
157	Provenancing Archaeological Wool Textiles from Medieval Northern Europe by Light Stable Isotope Analysis (Î´13C, Î´15N, Î´2H). PLoS ONE, 2016, 11, e0162330.	2.5	24
158	Assessing the distribution of African Palaeolithic sites: a predictive model of collagen degradation. Journal of Archaeological Science, 2005, 32, 157-166.	2.4	23
159	An assessment of the microbial contribution to aquatic dissolved organic nitrogen using amino acid enantiomeric ratios. Organic Geochemistry, 2005, 36, 1099-1107.	1.8	23
160	Results from an amino acid racemization inter-laboratory proficiency study; design and performance evaluation. Quaternary Geochronology, 2013, 16, 183-197.	1.4	23
161	The identification of archaeological eggshell using peptide markers. Science and Technology of Archaeological Research, 2017, 3, 89-99.	2.4	23
162	Wet degradation of keratin proteins: linking amino acid, elemental and isotopic composition. Rapid Communications in Mass Spectrometry, 2014, 28, 2121-2133.	1.5	22

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163	Analysis of collagen preservation in bones recovered in archaeological contexts using NIR Hyperspectral Imaging. Talanta, 2014, 125, 181-188.	5.5	22
164	Assessing the degradation of ancient milk proteinsÂthrough site-specific deamidation patterns. Scientific Reports, 2021, 11, 7795.	3.3	22
165	Bone biodeteriorationâ€"The effect of marine and terrestrial depositional environments on early diagenesis and bone bacterial community. PLoS ONE, 2020, 15, e0240512.	2.5	22
166	Walking on Eggshells: A Study of Egg Use in Angloâ€Scandinavian York Based on Eggshell Identification Using ZooMS. International Journal of Osteoarchaeology, 2014, 24, 247-255.	1.2	20
167	Small-angle X-ray scattering: a high-throughput technique for investigating archaeological bone preservation. Journal of Archaeological Science, 2004, 31, 1349-1359.	2.4	19
168	What's the catch? Archaeological application of rapid collagen-based species identification for Pacific Salmon. Journal of Archaeological Science, 2020, 116, 105116.	2.4	19
169	Multi-protease analysis of Pleistocene bone proteomes. Journal of Proteomics, 2020, 228, 103889.	2.4	18
170	Technological Analysis of the Worldâ€™s Earliest Shamanic Costume: A Multi-Scalar, Experimental Study of a Red Deer Headdress from the Early Holocene Site of Star Carr, North Yorkshire, UK. PLoS ONE, 2016, 11, e0152136.	2.5	18
171	World archaeology and global change: Did our ancestors ignite the Ice Age?. World Archaeology, 1993, 25, 122-133.	1.1	17
172	Clarification of the taxonomic relationship of the extant and extinct ovibovids, Ovibos, Praeovibos, Euceratherium and Bootherium. Quaternary Science Reviews, 2010, 29, 2123-2130.	3.0	17
173	Comment on â€œEcological niche of Neanderthals from Spy Cave revealed by nitrogen isotopes of individual amino acids in collagenâ€•[J. Hum. Evol. 93 (2016) 82â€“90]. Journal of Human Evolution, 2018, 117, 53-55.	2.6	17
174	Hydroxyproline interference during the gas chromatographic analysis of D/L aspartic acid in human dentine. International Journal of Legal Medicine, 1999, 112, 124-131.	2.2	16
175	Soil proteomics: An assessment of its potential for archaeological site interpretation. Organic Geochemistry, 2012, 50, 57-67.	1.8	16
176	An integrated analysis of Maglemose bone points reframes the Early Mesolithic of Southern Scandinavia. Scientific Reports, 2020, 10, 17244.	3.3	16
177	â€˜Milk Jugsâ€™ and Other Myths of the Copper Age of Central Europeâ€™. European Journal of Archaeology, 2003, 6, 251-265.	0.5	15
178	Alzheimer's disease and amyloid Î²-peptide deposition in the brain: a matter of â€˜agingâ€™?. Biochemical Society Transactions, 2010, 38, 539-544.	3.4	15
179	A review of the dodo and its ecosystem: insights from a vertebrate concentration LagerstÃtte in Mauritius. Journal of Vertebrate Paleontology, 2015, 35, 3-20.	1.0	15
180	An assessment of procedures to remove exogenous Sr before 87Sr/86Sr analysis of wet archaeological wool textiles. Journal of Archaeological Science, 2015, 53, 84-93.	2.4	14

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181	Ancient proteins resolve controversy over the identity ofGenyorniseggshell. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
182	Long-term trends in the survival of immunological epitopes entombed in fossil brachiopod skeletons. Organic Geochemistry, 2003, 34, 89-96.	1.8	13
183	Characterisation and dynamics of dissolved organic matter in the Northwestern Mediterranean Sea. Progress in Oceanography, 2013, 119, 78-89.	3.2	13
184	Comparison of isotopic variability in proteinaceous tissues of a domesticated herbivore: a baseline for zooarchaeological investigation. Rapid Communications in Mass Spectrometry, 2013, 27, 2601-2615.	1.5	13
185	Redescription of Uca Sindensis (Alcock, 1900) (Brachyura: Ocypodidae) with Notes on the Ecology of a Population from Kuwait. Journal of Crustacean Biology, 1984, 4, 318-328.	0.8	12
186	Assessing the distribution of Asian Palaeolithic sites: a predictive model of collagen degradation. Journal of Archaeological Science, 2006, 33, 971-986.	2.4	12
187	Diagnosing post-mortem treatments which inhibit DNA amplification from US MIAs buried at the Punchbowl. Forensic Science International, 2008, 178, 171-177.	2.2	12
188	The impact of random natural variability on aspartic acid racemization ratios in enamel from different types of human teeth. Forensic Science International, 2010, 200, 148-152.	2.2	12
189	Radiocarbon and Protein Analyses Indicate an Early Holocene Age for the Osseous Rod from Grenfell, Saskatchewan, Canada. American Antiquity, 2014, 79, 782-793.	1.1	12
190	Protein and mineral characterisation of rendered meat and bone meal. Food Chemistry, 2012, 134, 1267-1278.	8.2	11
191	How to get your goat: automated identification of species from MALDI-ToF spectra. Bioinformatics, 2020, 36, 3719-3725.	4.1	11
192	Girding the loins? Direct evidence of the use of a medieval English parchment birthing girdle from biomolecular analysis. Royal Society Open Science, 2021, 8, 202055.	2.4	11
193	Immunological responses from brachiopod skeletal macromolecules; a new technique for assessing taxonomic relationships using shells. Lethaia, 1991, 24, 399-407.	1.4	10
194	A novel method for integrated age and sex determination from archaeological cattle mandibles. Journal of Archaeological Science, 2012, 39, 3324-3330.	2.4	10
195	Poor preservation of antibodies in archaeological human bone and dentine. Science and Technology of Archaeological Research, 2016, 2, 15-24.	2.4	10
196	Bone degradation at five Arctic archaeological sites: Quantifying the importance of burial environment and bone characteristics. Journal of Archaeological Science, 2021, 125, 105296.	2.4	10
197	The Geochemical Fate of Proteins. ACS Symposium Series, 1998, , 74-87.	0.5	9
198	Collagen proteins exchange oxygen with demineralisation and gelatinisation reagents and also with atmospheric moisture. Rapid Communications in Mass Spectrometry, 2018, 32, 523-534.	1.5	9

#	Article	IF	Citations
199	Ionisation bias undermines the use of matrixâ€assisted laser desorption/ionisation for estimating peptide deamidation: Synthetic peptide studies demonstrate electrospray ionisation gives more reliable response ratios. Rapid Communications in Mass Spectrometry, 2019, 33, 1049-1057.	1.5	9
200	A New Approach to Amino Acid Racemization in Enamel: Testing of a Less Destructive Sampling Methodology*. Journal of Forensic Sciences, 2008, 53, 910-916.	1.6	8
201	Amino Acid Racemization Dating. , 2014, , 1-22.		8
202	Scratching the surface: the use of sheepskin parchment to deter textual erasure in early modern legal deeds. Heritage Science, 2021, 9, 29.	2.3	8
203	A biocodicological analysis of the medieval library and archive from Orval Abbey, Belgium. Royal Society Open Science, 2021, 8, 210210.	2.4	8
204	Slow rates of degradation of osteocalcin: Green light for fossil bone protein?. Geology, 2000, 28, 1139-1142.	4.4	8
205	DNA preserved in jetsam whale ambergris. Biology Letters, 2020, 16, 20190819.	2.3	7
206	Palaeoproteomic analyses of dog palaeofaeces reveal a preserved dietary and host digestive proteome. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210020.	2.6	7
207	Preservation of Organic Biomolecules. Topics in Geobiology, 1991, , 1-24.	0.5	7
208	Histological study of sheep skin transformation during the recreation of historical parchment manufacture. Heritage Science, 2020, 8, .	2.3	7
209	CONSTRUCTION OF THE KHOJA ZAYNUDDIN MOSQUE: USE OF ANIMAL GLUE MODIFIED WITH URINE*. Archaeometry, 2011, 53, 830-841.	1.3	6
210	The parchment of the Vienna Genesis: characteristics and manufacture. , 2020, , 35-70.		6
211	The biomolecular characterization of a finger ring contextually dated to the emergence of the Early Neolithic from Syltholm, Denmark. Royal Society Open Science, 2020, 7, 191172.	2.4	6
212	The polymer model of collagen degradation. Polymer Degradation and Stability, 1994, 46, 93-97.	5.8	5
213	Milk Jugs' and other Myths of the Copper Age of Central Europe. European Journal of Archaeology, 2003, 6, 251-265.	0.5	4
214	Measuring the impact of parchment production on skin collagen stable isotope (Î´¹³C and) Tj ETQq0 0 0 rgBT /Overlock 10	2.4	4
215	Evaluation of aspartic acid racemization ratios in the human femur for age estimation. Journal of Forensic Sciences, 1999, 44, 874-6.	1.6	4
216	Multiple Microanalyses of a Sample from the Vinland Map. Archaeometry, 2017, 59, 287-301.	1.3	3

#	Article	IF	Citations
217	Assessment of different screening methods for selecting palaeontological bone samples for peptide sequencing. Journal of Proteomics, 2021, 230, 103986.	2.4	3
218	Molecules and morphology â€" the practical approach. Lethaia, 1993, 26, 5-6.	1.4	2
219	A conscious rethink: Why is brain tissue commonly preserved in the archaeological record? Commentary on: Petrone P, Pucci P, Niola M, et al. Heat-induced brain vitrification from the Vesuvius eruption in C.E. 79. N Engl J Med 2020;382:383-4. DOI: 10.1056/NEJMc1909867. Science and Technology of Archaeological Research, 2020, 6, 87-95.	2.4	2
220	Rapid loss of endogenous DNA in pig bone buried in five different environments. Archaeometry, 2020, 62, 827-846.	1.3	2
221	The degradation of intracrystalline mollusc shell proteins: A proteomics study of Spondylus gaederopus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140718.	2.3	2
222	"Improvement" of Age Estimation Using Amino Acid Racemization in a Case of Pink Teeth. American Journal of Forensic Medicine and Pathology, 1999, 20, 216-217.	0.8	2
223	Commentary on Ohtani S, Matsushima Y, Kobayashi Y, Kishi K. Evaluation of Aspartic Acid Racemization Ratios in the Human Femur for Age Estimation. J Forensic Sci 1998;54(5):949â€"953. Journal of Forensic Sciences, 1999, 44, 874-875.	1.6	2
224	Amino Acid Racemization Dating. Encyclopedia of Earth Sciences Series, 2015, , 13-26.	0.1	2
225	Next Generation Lab puts Denmark's past in the hands of its future. Antiquity, 0, , 1-8.	1.0	2
226	A modern baseline for the paired isotopic analysis of skin and bone in terrestrial mammals. Royal Society Open Science, 2022, 9, 211587.	2.4	2
227	Data From â€œA Biocodicological Analysis of the Medieval Library and Archive From Orval Abbey, Belgiumâ€• Journal of Open Archaeology Data, 2022, 10, .	0.8	2
228	Conformational analysis and water dynamics: a molecular dynamics study on the survival of a Î²-lactoglobulin peptide in the archaeological record. Chemical Physics, 2022, 561, 111602.	1.9	2
229	Amino Acid Racemization, Paleoclimate. Encyclopedia of Earth Sciences Series, 2015, , 47-48.	0.1	1
230	Isotope analysis of human dental calculus Î´¹³CO₃^{2â^'}: Investigating a potential new proxy for sugar consumption. Rapid Communications in Mass Spectrometry, 2022, 36, e9286.	1.5	1
231	Amino Acid Racemization, Paleoclimate. , 2013, , 1-3.		0
232	Comparing biological and pathological factors affecting osteocalcin concentrations in archaeological skeletal remains. Journal of Archaeological Science: Reports, 2020, 34, 102573.	0.5	0
233	Aspartic Acid Racemization. , 2016, , 47-55.		0
234	The Vienna Genesis: An Example of Late Antique Purple Parchment. Restaurator, 2022, .	0.2	0