

# Michael Buckley

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

4,073  
citations

109321

35  
h-index

133252

59  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Species identification by analysis of bone collagen using matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3843-3854.	1.5	467
2	Species identification of archaeological marine mammals using collagen fingerprinting. <i>Journal of Archaeological Science</i> , 2014, 41, 631-641.	2.4	154
3	Proteome degradation in fossils: investigating the longevity of protein survival in ancient bone. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 605-615.	1.5	148
4	Identification of a new hominin bone from Denisova Cave, Siberia using collagen fingerprinting and mitochondrial DNA analysis. <i>Scientific Reports</i> , 2016, 6, 23559.	3.3	144
5	Age estimates for hominin fossils and the onset of the Upper Palaeolithic at Denisova Cave. <i>Nature</i> , 2019, 565, 640-644.	27.8	137
6	Comment on "Protein Sequences from Mastodon and <i>Tyrannosaurus rex</i> Revealed by Mass Spectrometry". <i>Science</i> , 2008, 319, 33-33.	12.6	127
7	Identification of collagen-based materials in cultural heritage. <i>Analyst</i> , 2013, 138, 4849.	3.5	110
8	Ancient collagen reveals evolutionary history of the endemic South American ungulates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142671.	2.6	106
9	Direct dating of Neanderthal remains from the site of Vindija Cave and implications for the Middle to Upper Paleolithic transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10606-10611.	7.1	100
10	Forensic proteomics for the evaluation of the post-mortem decay in bones. <i>Journal of Proteomics</i> , 2018, 177, 21-30.	2.4	84
11	Mammoth and Mastodon collagen sequences; survival and utility. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2007-2016.	3.9	82
12	A Molecular Phylogeny of Plesiorycteropus Reassigns the Extinct Mammalian Order Bibymalagasia. <i>PLoS ONE</i> , 2013, 8, e59614.	2.5	79
13	Modern human incursion into Neanderthal territories 54,000 years ago at Mandrin, France. <i>Science Advances</i> , 2022, 8, eabj9496.	10.3	76
14	Combining histology, stable isotope analysis and ZooMS collagen fingerprinting to investigate the taphonomic history and dietary behaviour of extinct giant tortoises from the Mare aux Songes deposit on Mauritius. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 80-91.	2.3	75
15	Proteome degradation in ancient bone: Diagenesis and phylogenetic potential. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 69-79.	2.3	75
16	Comparing the survival of osteocalcin and mtDNA in archaeological bone from four European sites. <i>Journal of Archaeological Science</i> , 2008, 35, 1756-1764.	2.4	73
17	Searching for Scandinavians in pre-Viking Scotland: molecular fingerprinting of Early Medieval combs. <i>Journal of Archaeological Science</i> , 2014, 41, 1-6.	2.4	72
18	Species identification and decay assessment of Late Pleistocene fragmentary vertebrate remains from Pin Hole Cave (Creswell Crags, UK) using collagen fingerprinting. <i>Boreas</i> , 2017, 46, 402-411.	2.4	71

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19	A fossil protein chimera; difficulties in discriminating dinosaur peptide sequences from modern cross-contamination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170544.	2.6	70
20	Species Identification of Bovine, Ovine and Porcine Type 1 Collagen; Comparing Peptide Mass Fingerprinting and LC-Based Proteomics Methods. <i>International Journal of Molecular Sciences</i> , 2016, 17, 445.	4.1	67
21	Intra- and Interskeletal Proteome Variations in Fresh and Buried Bones. <i>Journal of Proteome Research</i> , 2017, 16, 2016-2029.	3.7	67
22	A method of isolating the collagen (I) $\alpha$ 2 chain carboxyteleopeptide for species identification in bone fragments. <i>Analytical Biochemistry</i> , 2008, 374, 325-334.	2.4	60
23	Proteomics analysis of ancient food vessel stitching reveals >4000-year-old milk protein. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 531-538.	1.5	58
24	Minimizing Laboratory-Induced Decay in Bone Proteomics. <i>Journal of Proteome Research</i> , 2017, 16, 447-458.	3.7	58
25	Zooarchaeology by Mass Spectrometry (ZooMS) Collagen Fingerprinting for the Species Identification of Archaeological Bone Fragments. , 2018, , 227-247.		55
26	Collagen Fingerprinting: A New Screening Technique for Radiocarbon Dating Ancient Bone. <i>PLoS ONE</i> , 2016, 11, e0150650.	2.5	54
27	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.	2.4	54
28	Comprehensive Proteomic Profiling of Wheat Gluten Using a Combination of Data-Independent and Data-Dependent Acquisition. <i>Frontiers in Plant Science</i> , 2016, 7, 2020.	3.6	54
29	Reconstructing Asian faunal introductions to eastern Africa from multi-proxy biomolecular and archaeological datasets. <i>PLoS ONE</i> , 2017, 12, e0182565.	2.5	53
30	A mass spectrometry method for the determination of the species of origin of gelatine in foods and pharmaceutical products. <i>Food Chemistry</i> , 2016, 190, 276-284.	8.2	51
31	Exploring Biological and Geological Age-related Changes through Variations in Intra- and Intertooth Proteomes of Ancient Dentine. <i>Journal of Proteome Research</i> , 2018, 17, 1000-1013.	3.7	45
32	Collagen sequence analysis of fossil camels, <i>Camelops</i> and c.f. <i>Paracamelus</i> , from the Arctic and sub-Arctic of Plio-Pleistocene North America. <i>Journal of Proteomics</i> , 2019, 194, 218-225.	2.4	44
33	Metabarcoding to investigate changes in soil microbial communities within forensic burial contexts. <i>Forensic Science International: Genetics</i> , 2019, 39, 73-85.	3.1	40
34	Identifying remains of extinct kangaroos in Late Pleistocene deposits using collagen fingerprinting. <i>Journal of Quaternary Science</i> , 2017, 32, 653-660.	2.1	39
35	Dinosaur Peptides Suggest Mechanisms of Protein Survival. <i>PLoS ONE</i> , 2011, 6, e20381.	2.5	39
36	The challenge of identifying tuberculosis proteins in archaeological tissues. <i>Journal of Archaeological Science</i> , 2016, 66, 146-153.	2.4	37

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37	Characterization of Proteomes Extracted through Collagen-based Stable Isotope and Radiocarbon Dating Methods. <i>Journal of Proteome Research</i> , 2018, 17, 429-439.	3.7	36
38	ZooMS identification of bone tools from the North African Later Stone Age. <i>Journal of Archaeological Science</i> , 2018, 98, 149-157.	2.4	36
39	Semi-supervised machine learning for automated species identification by collagen peptide mass fingerprinting. <i>BMC Bioinformatics</i> , 2018, 19, 241.	2.6	36
40	Preserved collagen reveals species identity in archaeological marine turtle bones from Caribbean and Florida sites. <i>Royal Society Open Science</i> , 2019, 6, 191137.	2.4	34
41	Species identification of ancient Lithuanian fish remains using collagen fingerprinting. <i>Journal of Archaeological Science</i> , 2018, 98, 102-111.	2.4	33
42	Grey whale ( <i>Eschrichtius robustus</i> ) in Norwegian waters 2000 years ago. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 495, 42-47.	2.3	30
43	Long-term ecological changes in marine mammals driven by recent warming in northwestern Alaska. <i>Global Change Biology</i> , 2018, 24, 490-503.	9.5	29
44	Late Holocene spread of pastoralism coincides with endemic megafaunal extinction on Madagascar. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211204.	2.6	29
45	Collagen Sequence Analysis of the Extinct Giant Ground Sloths <i>Lestodon</i> and <i>Megatherium</i> . <i>PLoS ONE</i> , 2015, 10, e0139611.	2.5	28
46	Sorting the sheep from the goats in the Pastoral Neolithic: morphological and biomolecular approaches at Luxmanda, Tanzania. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 3047-3062.	1.8	28
47	Identification of the earliest collagen- and plant-based coatings from Neolithic artefacts (Nahal Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	26
48	Urban rats have less variable, higher protein diets. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181441.	2.6	26
49	Combined osteomorphological, isotopic, aDNA, and ZooMS analyses of sheep and goat remains from Neolithic Ulucak, Turkey. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 1669-1681.	1.8	26
50	Deforestation caused abrupt shift in Great Lakes nitrogen cycle. <i>Limnology and Oceanography</i> , 2020, 65, 1921-1935.	3.1	24
51	Sulfur isotopes ( $\delta^{34}\text{S}$ ) in Arctic marine mammals: indicators of benthic vs. pelagic foraging. <i>Marine Ecology - Progress Series</i> , 2020, 653, 205-216.	1.9	23
52	Collagen deamidation in archaeological bone as an assessment for relative decay rates. <i>Archaeometry</i> , 2019, 61, 1382-1398.	1.3	21
53	Further insight into Neolithic agricultural management at Kouphovouno, southern Greece: expanding the isotopic approach. <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	21
54	Collagen Fingerprinting and the Earliest Marine Mammal Hunting in North America. <i>Scientific Reports</i> , 2018, 8, 10014.	3.3	19

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55	Archaeozoological, taphonomic and ZooMS insights into The Protoaurignacian faunal record from Riparo Bombrini. <i>Quaternary International</i> , 2020, 551, 243-263.	1.5	19
56	Zooarchaeology through the lens of collagen fingerprinting at Denisova Cave. <i>Scientific Reports</i> , 2021, 11, 15457.	3.3	19
57	Clarification of the taxonomic relationship of the extant and extinct ovibovids, <i>Ovibos</i> , <i>Praeovibos</i> , <i>Euceratherium</i> and <i>Bootherium</i> . <i>Quaternary Science Reviews</i> , 2010, 29, 2123-2130.	3.0	17
58	Advances in bone preservation: Identifying possible collagen preservation using sulfur speciation mapping. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 520, 181-187.	2.3	16
59	Interpreting the historical terrestrial vertebrate biodiversity of Cayman Brac (Greater Antilles, Caribbean). <i>Journal of Biogeography</i> , 2021, 48, 171-187.	1.7	16
60	Collagen fingerprinting and the Chumash billfish fishery, Santa Barbara Channel, California, USA. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 6639-6648.	1.8	16
61	A review of the dodo and its ecosystem: insights from a vertebrate concentration Lagerstätte in Mauritius. <i>Journal of Vertebrate Paleontology</i> , 2015, 35, 3-20.	1.0	15
62	Climate stability and societal decline on the margins of the Byzantine empire in the Negev Desert. <i>Scientific Reports</i> , 2020, 10, 1512.	3.3	15
63	High-Resolution AMS Dating of Architecture, Boulder Artworks and the Transition to Farming at Lepenski Vir. <i>Scientific Reports</i> , 2018, 8, 14221.	3.3	14
64	A molecular phylogeny of the extinct South American gomphothere through collagen sequence analysis. <i>Quaternary Science Reviews</i> , 2019, 224, 105882.	3.0	14
65	Collagen Sequence Analysis Reveals Evolutionary History of Extinct West Indies Nesophontes (Island-Shrews). <i>Molecular Biology and Evolution</i> , 2020, 37, 2931-2943.	8.9	14
66	Portable FTIR for on-site screening of archaeological bone intended for ZooMS collagen fingerprint analysis. <i>Journal of Archaeological Science: Reports</i> , 2019, 26, 101862.	0.5	13
67	Soil Fungal Communities Investigated by Metabarcoding Within Simulated Forensic Burial Contexts. <i>Frontiers in Microbiology</i> , 2020, 11, 1686.	3.5	13
68	Successive bacterial colonisation of pork and its implications for forensic investigations. <i>Forensic Science International</i> , 2017, 281, 1-8.	2.2	12
69	Collagen fingerprinting for the species identification of archaeological amphibian remains. <i>Boreas</i> , 2020, 49, 709-717.	2.4	12
70	Specialized wool production economy of prehistoric farmstead of Chap I in the highlands of Central Tian Shan (Kyrgyzstan). <i>International Journal of Osteoarchaeology</i> , 2021, 31, 18-28.	1.2	12
71	Protein and mineral characterisation of rendered meat and bone meal. <i>Food Chemistry</i> , 2012, 134, 1267-1278.	8.2	11
72	Paleoproteomics: An Introduction to the Analysis of Ancient Proteins by Soft Ionisation Mass Spectrometry. <i>Population Genomics</i> , 2018, , 31-52.	0.5	10

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73	Relative Protein Abundances and Biological Ageing in Whole Skeletal Elements. <i>Journal of Proteome Research</i> , 2021, 20, 538-548.	3.7	10
74	Comparing the Use of Magnetic Beads with Ultrafiltration for Ancient Dental Calculus Proteomics. <i>Journal of Proteome Research</i> , 2021, 20, 1689-1704.	3.7	10
75	Visualisation of developmental ossification using trace element mapping. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 967-974.	3.0	9
76	Species identification of voles and lemmings from Late Pleistocene deposits in Pin Hole Cave (Creswell) Tj ETQq0 0,0,rgBT /Oyerlock 10	1.5	9
77	Machine learning ATR-FTIR spectroscopy data for the screening of collagen for ZooMS analysis and mtDNA in archaeological bone. <i>Journal of Archaeological Science</i> , 2021, 126, 105311.	2.4	9
78	Selection preferences for animal species used in bone-tool-manufacturing strategies in KwaZulu-Natal, South Africa. <i>PLoS ONE</i> , 2021, 16, e0249296.	2.5	9
79	Dating the last Middle Palaeolithic of the Crimean Peninsula: New hydroxyproline AMS dates from the site of Kabazi II. <i>Journal of Human Evolution</i> , 2021, 156, 102996.	2.6	9
80	Species identification of Late Pleistocene bat bones using collagen fingerprinting. <i>International Journal of Osteoarchaeology</i> , 2019, 29, 1051-1059.	1.2	8
81	Heading for the hills? A multi-isotope study of sheep management in first-millennium BC Italy. <i>Journal of Archaeological Science: Reports</i> , 2020, 29, 102036.	0.5	8
82	Combined visual and biochemical analyses confirm depositor and diet for Neolithic coprolites from Skara Brae. <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	8
83	Phylogenetic analyses of ray-finned fishes (Actinopterygii) using collagen type I protein sequences. <i>Royal Society Open Science</i> , 2021, 8, 201955.	2.4	8
84	Radiocarbon dating legacy collections: A Bayesian analysis of high-precision AMS 14C dates from the Par-Tee site, Oregon. <i>Journal of Archaeological Science: Reports</i> , 2018, 21, 833-848.	0.5	7
85	Ancient Beringian paleodiets revealed through multiproxy stable isotope analyses. <i>Science Advances</i> , 2020, 6, .	10.3	7
86	Proteome Variation with Collagen Yield in Ancient Bone. <i>Journal of Proteome Research</i> , 2021, 20, 1754-1769.	3.7	7
87	Proteomic analysis of archaeological ceramics from Tell Khaiber, southern Iraq. <i>Journal of Archaeological Science</i> , 2021, 132, 105414.	2.4	7
88	Pluripotent stem cells for skeletal tissue engineering. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 774-793.	9.0	6
89	Archaeological Collagen Fingerprinting in the Neotropics; Protein Survival in 6000 Year Old Dwarf Deer Remains from Pedro GonzÁlez Island, Pearl Islands, Panama. , 2017, , 157-175.		6
90	Exploring Diversity in Neolithic Agropastoral Management in Mainland Greece Using Stable Isotope Analysis. <i>Environmental Archaeology</i> , 2023, 28, 62-85.	1.2	5

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91	Trends in deamidation across archaeological bones, ceramics and dental calculus. <i>Methods</i> , 2021, , .	3.8	5
92	High-throughput microCT and ZooMS collagen fingerprinting of Scombrid bone from the Marquesas Islands. <i>Journal of Archaeological Science</i> , 2021, 136, 105475.	2.4	5
93	Morphological and chemical evidence for cyclic bone growth in a fossil hyaena. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2062-2069.	3.0	4
94	Proteomics in the Analysis of Forensic, Archaeological, and Paleontological Bone. <i>ACS Symposium Series</i> , 2019, , 125-141.	0.5	4
95	Biogeographic problem-solving reveals the Late Pleistocene translocation of a short-faced bear to the California Channel Islands. <i>Scientific Reports</i> , 2020, 10, 15172.	3.3	4
96	Adaptive Trade-offs Towards the Last Glacial Maximum in North-Western Europe: a Multidisciplinary View from Walou Cave. <i>Journal of Paleolithic Archaeology</i> , 2021, 4, 1.	1.7	4
97	Practice makes perfect? Interanalyst variation in the identification of fish remains from archaeological sites. <i>International Journal of Osteoarchaeology</i> , 0, , .	1.2	4
98	Medieval fish remains on the Newport ship identified by ZooMS collagen peptide mass fingerprinting. <i>Archaeological and Anthropological Sciences</i> , 2022, 14, 1.	1.8	3
99	A case study of vertebral fusion in a 19th-century horse from Serbia. <i>International Journal of Paleopathology</i> , 2019, 27, 17-23.	1.4	1
100	Experimental taphonomy of fish bone from warm and cold water species: Testing the effects of amino acid composition on collagen breakdown in modern fish bone using thermal maturation experiments. <i>Journal of Archaeological Science</i> , 2021, 126, 105318.	2.4	1
101	Dietary niche separation of three Late Pleistocene bear species from Vancouver Island, on the Pacific Northwest Coast of North America. <i>Journal of Quaternary Science</i> , 2023, 38, 8-20.	2.1	1
102	KostÄ«nki 9: The chronology and lithic assemblage of a Gravettian site in Russia. <i>Quaternary International</i> , 2021, 587-588, 344-367.	1.5	0
103	The last caravans in antiquity: Camel remains from CariÄ«n Grad (Justiniana Prima). <i>Journal of Archaeological Science: Reports</i> , 2021, 38, 103038.	0.5	0