

Richard P Evershed

List of Publications by Year in descending order

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74
papers

5,715
citations

126901

33
h-index

85537

71
g-index

75
all docs

75
docs citations

75
times ranked

4158
citing authors

#	ARTICLE	IF	CITATIONS
1	The Earliest Horse Harnessing and Milking. <i>Science</i> , 2009, 323, 1332-1335.	12.6	539
2	Earliest date for milk use in the Near East and southeastern Europe linked to cattle herding. <i>Nature</i> , 2008, 455, 528-531.	27.8	516
3	Earliest evidence for cheese making in the sixth millennium bc in northern Europe. <i>Nature</i> , 2013, 493, 522-525.	27.8	387
4	First dairying in green Saharan Africa in the fifth millennium bc. <i>Nature</i> , 2012, 486, 390-394.	27.8	314
5	Direct Demonstration of Milk as an Element of Archaeological Economies. , 1998, 282, 1478-1481.		285
6	Analysis of organic residues of archaeological origin by high-temperature gas chromatography and gas chromatography-mass spectrometry. <i>Analyst</i> , The, 1990, 115, 1339.	3.5	263
7	Chemistry of Archaeological Animal Fats. <i>Accounts of Chemical Research</i> , 2002, 35, 660-668.	15.6	229
8	Detection and classification of atmospheric methane oxidizing bacteria in soil. <i>Nature</i> , 2000, 405, 175-178.	27.8	207
9	Thermally produced $\delta^{13}\text{C}$ -(<i>o</i> -alkylphenyl)alkanoic acids provide evidence for the processing of marine products in archaeological pottery vessels. <i>Tetrahedron Letters</i> , 2004, 45, 2999-3002.	1.4	196
10	Fuel for thought? Beeswax in lamps and conical cups from Late Minoan Crete. <i>Antiquity</i> , 1997, 71, 979-985.	1.0	169
11	High throughput screening of organic residues in archaeological potsherds using direct acidified methanol extraction. <i>Analytical Methods</i> , 2014, 6, 1330.	2.7	163
12	Practical and theoretical considerations in the gas chromatography/combustion/isotope ratio mass spectrometry $\delta^{13}\text{C}$ analysis of small polyfunctional compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 730-738.	1.5	148
13	Widespread exploitation of the honeybee by early Neolithic farmers. <i>Nature</i> , 2015, 527, 226-230.	27.8	145
14	Immediate replacement of fishing with dairying by the earliest farmers of the northeast Atlantic archipelagos. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132372.	2.6	130
15	Regional asynchronicity in dairy production and processing in early farming communities of the northern Mediterranean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13594-13599.	7.1	118
16	Optimisation of derivatisation procedures for the determination of $\delta^{13}\text{C}$ values of amino acids by gas chromatography/combustion/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3759-3771.	1.5	117
17	Resolving the bulk $\delta^{15}\text{N}$ values of ancient human and animal bone collagen via compound-specific nitrogen isotope analysis of constituent amino acids. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 241-251.	3.9	116
18	A novel marine dietary indicator utilising compound-specific bone collagen amino acid $\delta^{13}\text{C}$ values of ancient humans. <i>Journal of Archaeological Science</i> , 2005, 32, 321-330.	2.4	109

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19	¹³ C-Labeling of lipids to investigate microbial communities in the environment. <i>Current Opinion in Biotechnology</i> , 2006, 17, 72-82.	6.6	109
20	Neolithic dairy farming at the extreme of agriculture in northern Europe. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140819.	2.6	92
21	From the inside out: Upscaling organic residue analyses of archaeological ceramics. <i>Journal of Archaeological Science: Reports</i> , 2017, 16, 627-640.	0.5	76
22	Evidence for the impact of the 8.2-kyBP climate event on Near Eastern early farmers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8705-8709.	7.1	65
23	A call for caution in the analysis of lipids and other small biomolecules from archaeological contexts. <i>Journal of Archaeological Science</i> , 2021, 132, 105397.	2.4	61
24	Earliest expansion of animal husbandry beyond the Mediterranean zone in the sixth millennium BC. <i>Scientific Reports</i> , 2017, 7, 7146.	3.3	60
25	Direct Dating of Archaeological Pottery by Compound-Specific ¹⁴ C Analysis of Preserved Lipids. <i>Analytical Chemistry</i> , 2003, 75, 5037-5045.	6.5	59
26	Formation of dihydroxy acids from Z-monounsaturated alkenoic acids and their use as biomarkers for the processing of marine commodities in archaeological pottery vessels. <i>Tetrahedron Letters</i> , 2009, 50, 5562-5564.	1.4	58
27	Tracing the rate and extent of N and C flow from ¹³ C, ¹⁵ N-glycine and glutamate into individual de novo synthesised soil amino acids. <i>Organic Geochemistry</i> , 2010, 41, 1259-1268.	1.8	54
28	Accurate compound-specific ¹⁴ C dating of archaeological pottery vessels. <i>Nature</i> , 2020, 580, 506-510.	27.8	52
29	Practical considerations in the determination of compound-specific amino acid $\delta^{15}\text{N}$ values in animal and plant tissues by gas chromatography-combustion-isotope ratio mass spectrometry, following derivatisation to their <i>N</i> -acetylisopropyl esters. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2328-2334.	1.5	46
30	Practical Considerations in High-Precision Compound-Specific Radiocarbon Analyses: Eliminating the Effects of Solvent and Sample Cross-Contamination on Accuracy and Precision. <i>Analytical Chemistry</i> , 2018, 90, 11025-11032.	6.5	39
31	Tracing pottery use and the emergence of secondary product exploitation through lipid residue analysis at Late Neolithic Tell Sabi Abyad (Syria). <i>Journal of Archaeological Science</i> , 2015, 64, 54-66.	2.4	38
32	Compound-specific amino acid isotopic proxies for distinguishing between terrestrial and aquatic resource consumption. <i>Archaeological and Anthropological Sciences</i> , 2018, 10, 1-18.	1.8	38
33	Comparison of liquid chromatography-isotope ratio mass spectrometry (LC/IRMS) and gas chromatography-combustion-isotope ratio mass spectrometry (GC/C/IRMS) for the determination of collagen amino acid $\delta^{13}\text{C}$ values for palaeodietary and palaeoecological reconstruction. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2995-3011.	1.5	35
34	Strong bias towards carcass product processing at Neolithic settlements in northern Greece revealed through absorbed lipid residues of archaeological pottery. <i>Quaternary International</i> , 2018, 496, 127-139.	1.5	35
35	Gas chromatographic mass spectrometric detection of dihydroxy fatty acids preserved in the bound™ phase of organic residues of archaeological pottery vessels. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1893-1898.	1.5	34
36	Pastoralist Foodways Recorded in Organic Residues from Pottery Vessels of Modern Communities in Samburu, Kenya. <i>Journal of Archaeological Method and Theory</i> , 2019, 26, 619-642.	3.0	34

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37	Regional diversity in subsistence among early farmers in Southeast Europe revealed by archaeological organic residues. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182347.	2.6	33
38	Interpreting ancient food practices: stable isotope and molecular analyses of visible and absorbed residues from a year-long cooking experiment. <i>Scientific Reports</i> , 2020, 10, 13704.	3.3	33
39	Characterisation of "bog butter"™ using a combination of molecular and isotopic techniques. <i>Analyst</i> , 2004, 129, 270-275.	3.5	31
40	The significance of petroleum bitumen in ancient Egyptian mummies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160229.	3.4	31
41	Compound-specific amino acid isotopic proxies for detecting freshwater resource consumption. <i>Journal of Archaeological Science</i> , 2015, 63, 104-114.	2.4	30
42	Identification of a disinterred grave by molecular and stable isotope analysis. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2009, 49, 142-149.	2.1	26
43	¹⁵ N-amino sugar stable isotope probing (¹⁵ N-SIP) to trace the assimilation of fertiliser-N by soil bacterial and fungal communities. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107599.	8.8	26
44	Practical considerations in the gas chromatography/combustion/isotope ratio monitoring mass spectrometry of ¹³ C-enriched compounds: detection limits and carryover effects. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2669-2674.	1.5	25
45	Compound-specific ¹⁵ N values express differences in amino acid metabolism in plants of varying lignin content. <i>Phytochemistry</i> , 2019, 161, 130-138.	2.9	25
46	Molecular and isotopic evidence for milk, meat, and plants in prehistoric eastern African herder food systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9793-9799.	7.1	25
47	The effect of trophic level on individual amino acid ¹⁵ N values in a terrestrial ruminant food web. <i>Science and Technology of Archaeological Research</i> , 2017, 3, 135-145.	2.4	24
48	Ecosystem service delivery in Karst landscapes: anthropogenic perturbation and recovery. <i>Acta Geochimica</i> , 2017, 36, 416-420.	1.7	22
49	Living off the land: Terrestrial-based diet and dairying in the farming communities of the Neolithic Balkans. <i>PLoS ONE</i> , 2020, 15, e0237608.	2.5	21
50	Tree-rings reveal two strong solar proton events in 7176 and 5259 BCE. <i>Nature Communications</i> , 2022, 13, 1196.	12.8	21
51	Honey-collecting in prehistoric West Africa from 3500 years ago. <i>Nature Communications</i> , 2021, 12, 2227.	12.8	18
52	Use of a 700 MHz NMR Microcryoprobe for the Identification and Quantification of Exogenous Carbon in Compounds Purified by Preparative Capillary Gas Chromatography for Radiocarbon Determinations. <i>Analytical Chemistry</i> , 2017, 89, 7090-7098.	6.5	16
53	Untargeted characterisation of dissolved organic matter contributions to rivers from anthropogenic point sources using direct infusion and high performance liquid chromatography/Orbitrap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8618.	1.5	14
54	Radiocarbon Sample Preparation Procedures and the First Status Report from the Bristol Radiocarbon AMS (BRAMS) Facility. <i>Radiocarbon</i> , 2019, 61, 1541-1550.	1.8	12

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55	Quinoa, potatoes, and llamas fueled emergent social complexity in the Lake Titicaca Basin of the Andes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
56	High resolution HPLC-MS confirms overestimation of urea in soil by the diacetyl monoxime (DAM) colorimetric method. <i>Soil Biology and Biochemistry</i> , 2019, 135, 127-133.	8.8	10
57	Four millennia of dairy surplus and deposition revealed through compound-specific stable isotope analysis and radiocarbon dating of Irish bog butters. <i>Scientific Reports</i> , 2019, 9, 4559.	3.3	10
58	Diverse Economic Patterns in the North Baltic Sea Region in the Late Neolithic and Early Metal Periods. <i>European Journal of Archaeology</i> , 2020, 23, 4-21.	0.5	10
59	Spatial and temporal disparities in human subsistence in the Neolithic Rhineland gateway. <i>Journal of Archaeological Science</i> , 2020, 122, 105215.	2.4	10
60	COMPOUND-SPECIFIC RADIOCARBON, STABLE CARBON ISOTOPE AND BIOMARKER ANALYSIS OF MIXED MARINE/TERRESTRIAL LIPIDS PRESERVED IN ARCHAEOLOGICAL POTTERY VESSELS. <i>Radiocarbon</i> , 2020, 62, 1679-1697.	1.8	10
61	Compound-specific radiocarbon dating of lipid residues in pottery vessels: A new approach for detecting the exploitation of marine resources. <i>Journal of Archaeological Science</i> , 2022, 137, 105528.	2.4	10
62	Birch bark tar in early Medieval England – Continuity of tradition or technological revival?. <i>Journal of Archaeological Science: Reports</i> , 2020, 29, 102118.	0.5	9
63	Compound-specific amino acid ¹⁵ N-stable isotope probing for the quantification of biological nitrogen fixation in soils. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108654.	8.8	9
64	Development of Alditol Acetate Derivatives for the Determination of ¹⁵ N-Enriched Amino Sugars by Gas Chromatography–Combustion–Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 3397-3404.	6.5	8
65	High-resolution mass spectrometric analysis of myo-inositol hexakisphosphate using electrospray ionisation Orbitrap. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1681-1689.	1.5	7
66	Animal exploitation and pottery use during the early LBK phases of the Neolithic site of Bylany (Czech) Tj ETQq0 0 Q rrgBT /Overlock 10 T	1.5	7
67	Anta 1 de Val da Laje – the first direct view of diet, dairying practice and socio-economic aspects of pottery use in the final Neolithic of central Portugal. <i>Quaternary International</i> , 2020, 542, 1-8.	1.5	6
68	Making the invisible visible: tracing the origins of plants in West African cuisine through archaeobotanical and organic residue analysis. <i>Archaeological and Anthropological Sciences</i> , 2022, 14, 1.	1.8	6
69	Identification and quantification of myo-inositol hexakisphosphate in complex environmental matrices using ion chromatography and high-resolution mass spectrometry in comparison to ³¹ P NMR spectroscopy. <i>Talanta</i> , 2020, 210, 120188.	5.5	5
70	Tracing carbon and nitrogen microbial assimilation in suspended particles in freshwaters. <i>Biogeochemistry</i> , 2023, 164, 277-293.	3.5	5
71	GENERATION OF TWO NEW RADIOCARBON STANDARDS FOR COMPOUND-SPECIFIC RADIOCARBON ANALYSES OF FATTY ACIDS FROM BOG BUTTER FINDS. <i>Radiocarbon</i> , 2021, 63, 771-783.	1.8	4
72	Determination of Arginine ¹⁵ N Values in Plant and Animal Proteins by Gas Chromatography–Combustion–Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 13246-13253.	6.5	3

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73	Hodowla bydła w świetle analizy izotopów trwałych / Stable isotope perspectives of cattle husbandry practices. <i>Ocalone Dziedzictwo Archeologiczne</i> , 2019, , 277-288.	0.0	3
74	Chronologiczne i przestrzenne trendy użytkowania ceramiki w świetle analiz pozostałości tłuszczu w naczyniach KCWR / Chronological and spatial trends in pottery use revealed through lipid residue analyses of LBK pottery vessels. <i>Ocalone Dziedzictwo Archeologiczne</i> , 2019, , 301-316.	0.0	2