E Marian Scott

List of Publications by Year
in descending order

122 papers	15,986 citations	136950 32 h-index	20358 116 g-index
138 all docs	138 docs citations	138 times ranked	17153 citing authors

#	Article	IF	Citations
1	IntCal13 and Marine13 Radiocarbon Age Calibration Curves 0–50,000 Years cal BP. Radiocarbon, 2013, 55, 1869-1887.	1.8	9,487
2	The IntCal20 Northern Hemisphere Radiocarbon Age Calibration Curve (0–55 cal kBP). Radiocarbon, 2020, 62, 725-757.	1.8	3,502
3	The IAEA ^{14}C Intercomparison Exercise 1990. Radiocarbon, 1992, 34, 506-519.	1.8	231
4	Optical types of inland and coastal waters. Limnology and Oceanography, 2018, 63, 846-870.	3.1	196
5	Calibration for Archaeological and Environmental Terrestrial Samples in the Time Range 26–50 ka cal BP. Radiocarbon, 2013, 55, 2021-2027.	1.8	118
6	Definitive Glasgow acute pain scale for cats: validation and intervention level. Veterinary Record, 2017, 180, 449-449.	0.3	110
7	Global lake thermal regions shift under climate change. Nature Communications, 2020, 11, 1232.	12.8	96
8	The Fifth International Radiocarbon Intercomparison (VIRI): An Assessment of Laboratory Performance in Stage 3. Radiocarbon, 2010, 52, 859-865.	1.8	87
9	Capabilities of the New SUERC 5MV AMS Facility for ^{14}C Dating. Radiocarbon, 2004, 46, 59-64.	1.8	84
10	Is there a Fifth International Radiocarbon Intercomparison (VIRI)?. Radiocarbon, 2003, 45, 493-495.	1.8	77
11	The IntCal20 Approach to Radiocarbon Calibration Curve Construction: A New Methodology Using Bayesian Splines and Errors-in-Variables. Radiocarbon, 2020, 62, 821-863.	1.8	68
12	Report of the TIRI Workshop, Saturday 13 August 1994. Radiocarbon, 1995, 37, 820-821.	1.8	66
13	A Report on Phase 2 of the Fifth International Radiocarbon Intercomparison (VIRI). Radiocarbon, 2010, 52, 846-858.	1.8	63
14	Making the most of radiocarbon dating: some statistical considerations. Antiquity, 1994, 68, 252-263.	1.0	59
15	Assessing ecological responses to environmental change using statistical models. Journal of Applied Ecology, 2008, 45, 193-203.	4.0	57
16	Field effects studies in the Chernobyl Exclusion Zone: Lessons to be learnt. Journal of Environmental Radioactivity, 2020, 211, 105893.	1.7	57
17	Scaling the nexus: Towards integrated frameworks for analysing water, energy and food. Geographical Journal, 2019, 185, 419-431.	3.1	55
18	An Overview of All Three Stages of the International Radiocarbon Intercomparison. Radiocarbon, 1990, 32, 309-319.	1.8	54

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19	Influence of Mollusk Species on Marine Î"R Determinations. Radiocarbon, 2005, 47, 433-440.	1.8	53
20	Holocene Variations in the Scottish Marine Radiocarbon Reservoir Effect. Radiocarbon, 2004, 46, 611-620.	1.8	51
21	A Cremated Bone Intercomparison Study. Radiocarbon, 2007, 49, 403-408.	1.8	49
22	Towards a Radiocarbon Chronology of the Late-Glacial: Sample Selection Strategies. Radiocarbon, 2001, 43, 1007-1019.	1.8	47
23	Recent Developments in Calibration for Archaeological and Environmental Samples. Radiocarbon, 2020, 62, 1095-1117.	1.8	47
24	Urban sprawl scatterplots for Urban Morphological Zones data. Ecological Indicators, 2014, 36, 315-323.	6.3	46
25	A Report on Phase 1 of the 5th International Radiocarbon Intercomparison (VIRI). Radiocarbon, 2007, 49, 409-426.	1.8	44
26	Error and Uncertainty in Radiocarbon Measurements. Radiocarbon, 2007, 49, 427-440.	1.8	44
27	A Chronology of the Scythian Antiquities of Eurasia Based on New Archaeological and ^{14}C Data. Radiocarbon, 2001, 43, 1085-1107.	1.8	40
28	A coherent high-precision radiocarbon chronology for the Late-glacial sequence at Sluggan Bog, Co. Antrim, Northern Ireland. Journal of Quaternary Science, 2004, 19, 147-158.	2.1	40
29	Examining the Inherent Variability in Î"R: New Methods of Presenting Î"R Values and Implications for MRE Studies. Radiocarbon, 2011, 53, 277-288.	1.8	40
30	Summary findings of the fourth international radiocarbon intercomparison (FIRI)(1998-2001). Journal of Quaternary Science, 2002, 17, 633-637.	2.1	39
31	Ecosystem services and associated concepts. Environmetrics, 2011, 22, 598-607.	1.4	33
32	^{14}C AMS at Suerc: Improving QA Data with the 5MV Tandem and 250KV SSAMS. Radiocarbon, 2010, 52, 263-271.	1.8	32
33	Short-term effects of atmospheric particulate matter on myocardial infarction: a cumulative meta-analysis. Environmental Science and Pollution Research, 2016, 23, 6139-6148.	5.3	32
34	Should Archaeologists Care about ^{14}C Intercomparisons? Why? A Summary Report on SIRI. Radiocarbon, 2017, 59, 1589-1596.	1.8	32
35	Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. IEEE Internet of Things Journal, 2021, 8, 13805-13824.	8.7	32
36	A 3.5 ka record of paleoenvironments and human occupation at Angkor Borei, Mekong Delta, southern Cambodia. Geoarchaeology - an International Journal, 2003, 18, 359-393.	1.5	28

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37	The role of statistics in the analysis of ecosystem services. Environmetrics, 2011, 22, 608-617.	1.4	27
38	Why do we need 14 C inter-comparisons?: The Glasgow - 14 C inter-comparison series, a reflection over 30 years. Quaternary Geochronology, 2018, 43, 72-82.	1.4	27
39	Multivariate space–time modelling of multiple air pollutants and their health effects accounting for exposure uncertainty. Statistics in Medicine, 2018, 37, 1134-1148.	1.6	26
40	Do agonistic behaviours bias baited remote underwater video surveys of fish?. Marine Ecology, 2015, 36, 810-818.	1.1	25
41	Anthropogenic Radiocarbon in the Eastern Irish Sea and Scottish Coastal Waters. Radiocarbon, 1992, 34, 707-716.	1.8	23
42	Anthropogenic 14C Marine Geochemistry in the Vicinity of a Nuclear Fuel Reprocessing Plant. Radiocarbon, 1995, 37, 459-467.	1.8	23
43	Increased fire severity alters initial vegetation regeneration across Calluna-dominated ecosystems. Journal of Environmental Management, 2019, 231, 1004-1011.	7.8	22
44	Findings from an in-Depth Annual Tree-Ring Radiocarbon Intercomparison. Radiocarbon, 2020, 62, 873-882.	1.8	22
45	Stable carbon isotope variations in northwest Europe during the last glacial–interglacial transition. , 1997, 12, 339-344.		21
46	Announcement of a Further International Intercomparison Exercise. Radiocarbon, 1992, 34, 528-532.	1.8	19
47	An Interim Progress Report on Stages 1 and 2 of the International Collaborative Program. Radiocarbon, 1989, 31, 414-421.	1.8	18
48	Optimising outputs from a validated online instrument to measure health-related quality of life (HRQL) in dogs. PLoS ONE, 2019, 14, e0221869.	2.5	18
49	Language impairment and aggression in Alzheimer's disease. International Journal of Geriatric Psychiatry, 1996, 11, 257-261.	2.7	17
50	An integrated Bayesian model for estimating the long-term health effects of air pollution by fusing modelled and measured pollution data: A case study of nitrogen dioxide concentrations in Scotland. Spatial and Spatio-temporal Epidemiology, 2015, 14-15, 63-74.	1.7	17
51	Fire severity is more sensitive to low fuel moisture content on Calluna heathlands than on peat bogs. Science of the Total Environment, 2018, 616-617, 1261-1269.	8.0	17
52	Evidence for seasonal cycles in deep–sea fish abundances: A great migration in the deep SE Atlantic?. Journal of Animal Ecology, 2020, 89, 1593-1603.	2.8	17
53	Global and Local Effects of 14C Discharges from the Nuclear Fuel Cycle. Radiocarbon, 1986, 28, 634-643.	1.8	16
54	Sample requirements and design of an inter-laboratory trial for radiocarbon laboratories. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 355-358.	1.4	16

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55	Environmental regulation, sustainability and risk. Sustainability Accounting, Management and Policy Journal, 2013, 4, 120-144.	4.1	16
56	A comparison of clustering approaches for the study of the temporal coherence of multiple time series. Stochastic Environmental Research and Risk Assessment, 2015, 29, 463-475.	4.0	16
57	Association between fibre intake and indoxyl sulphate/P-cresyl sulphate in patients with chronic kidney disease: Meta-analysis and systematic review of experimental studies. Clinical Nutrition, 2019, 38, 2016-2022.	5.0	16
58	Comparison of arterial blood pressure measurements obtained invasively or oscillometrically using a Datex S/5 Compact monitor in anaesthetised adult horses. Veterinary Anaesthesia and Analgesia, 2017, 44, 492-501.	0.6	15
59	Design and Preparation of Samples for the International Collaborative Study. Radiocarbon, 1989, 31, 407-413.	1.8	12
60	Report on Stage 3 of the International Collaborative Program. Radiocarbon, 1990, 32, 271-278.	1.8	12
61	Multivariate varyingâ€coefficient models for an ecological system. Environmetrics, 2009, 20, 460-476.	1.4	12
62	Functional clustering of water quality data inâ€‰Scotland. Environmetrics, 2012, 23, 685-695.	1.4	12
63	The association of weather and bathing water quality on the incidence of gastrointestinal illness in the west of Scotland. Epidemiology and Infection, 2014, 142, 1289-1299.	2.1	12
64	Burning increases post-fire carbon emissions in a heathland and a raised bog, but experimental manipulation of fire severity has no effect. Journal of Environmental Management, 2019, 233, 321-328.	7.8	12
65	Interlaboratory Comparisons: Lessons Learned. Radiocarbon, 1997, 40, 331-340.	1.8	11
66	Sulphur isotope variations in diagenetic pyrite from core plug to sub-millimetre scales. Clay Minerals, 2000, 35, 303-311.	0.6	11
67	The measurement of^{99}Tc in seaweed: Results from an international intercomparison exercise. Journal of Radioanalytical and Nuclear Chemistry, 1999, 242, 413-418.	1.5	10
68	Setting, and evaluating the effectiveness of, environmental policy. Environmetrics, 2007, 18, 333-343.	1.4	9
69	The role of Statistics in the era of big data: Crucial, critical and under-valued. Statistics and Probability Letters, 2018, 136, 20-24.	0.7	9
70	Learning from the Wood Samples in ICS, TIRI, FIRI, VIRI, and SIRI. Radiocarbon, 2019, 61, 1293-1304.	1.8	9
71	Effect of Age, Breed, and Sex on the Health-Related Quality of Life of Owner Assessed Healthy Dogs. Frontiers in Veterinary Science, 2021, 8, 603139.	2.2	9
72	Radiocarbon: present and future perspectives on quality assurance. Antiquity, 1990, 64, 319-322.	1.0	8

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73	International Collaborative Study: Structuring and Sample Preparation. Radiocarbon, 1990, 32, 267-270.	1.8	8
74	Further Analysis of the International Intercomparison Study (ICS). Radiocarbon, 1992, 34, 520-527.	1.8	8
75	Analytical Protocol and Quality Assurance for ^{14}C Analyses: Proposal for A Further Intercomparison. Radiocarbon, 1997, 39, 347-350.	1.8	8
76	Precision and accuracy in applied 14C dating: some findings from the Fourth International Radiocarbon Inter-comparison. Journal of Archaeological Science, 2004, 31, 1209-1213.	2.4	8
77	Announcement of A New Collaborative Study for Intercalibration of ^{14}C Dating Laboratories. Radiocarbon, 1986, 28, 167-169.	1.8	7
78	An Overview of Some Interlaboratory Studies. Radiocarbon, 1990, 32, 259-265.	1.8	7
79	Reconstructing the history of14C discharges from Sellafield. Journal of Radioanalytical and Nuclear Chemistry, 2004, 260, 239-247.	1.5	7
80	Calibration Introduction. Radiocarbon, 2009, 51, 283-285.	1.8	7
81	Spatiotemporal modeling of hydrological return levels: A quantile regression approach. Environmetrics, 2019, 30, e2522.	1.4	7
82	Consensus Dating of Mammoth Remains from Wrangel Island. Radiocarbon, 1997, 40, 289-294.	1.8	6
83	Is Comparability of ^{14}C Dates an Issue?: A Status Report on the Fourth International Radiocarbon Intercomparison. Radiocarbon, 2001, 43, 321-324.	1.8	6
84	Challenges in modeling detailed and complex environmental data sets: a case study modeling the excess partial pressure of fluvial $$hbox {CO}\_2$$ CO 2. Environmental and Ecological Statistics, 2016, 23, 65-87.	3.5	6
85	Humicsâ€"Their History in the Radiocarbon Intercomparison Studies. Radiocarbon, 2019, 61, 1413-1422.	1.8	6
86	Validity and Responsiveness of the Generic Health-Related Quality of Life Instrument (VetMetricaâ„¢) in Cats With Osteoarthritis. Comparison of Vet and Owner Impressions of Quality of Life Impact. Frontiers in Veterinary Science, 2021, 8, 733812.	2.2	6
87	Non-Linear and Nonparametric Modelling of Seasonal Environmental Data. Computational Statistics, 2003, 18, 167-183.	1.5	5
88	Water quality in the River Clyde: a case study of additive and interaction models. Environmetrics, 2007, 18, 527-539.	1.4	5
89	Investigation of the Analytical F^{14}C Bone Background Value at SUERC. Radiocarbon, 2017, 59, 1463-1473.	1.8	5
90	Geography and the waterâ€"energyâ€"food nexus: Introduction. Geographical Journal, 2019, 185, 373-376.	3.1	5

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91	Development of a prototype composite index for resilience and security of water-energy-food (WEF) systems in industrialised nations. Environmental and Sustainability Indicators, 2021, 11, 100124.	3.3	5
92	The Statistics of Low-Level Counting Using the New Generation of Packard Liquid Scintillation Counters. Radiocarbon, 1992, 34, 360-365.	1.8	4
93	Temporal analysis of spatial covariance ofSO2 in Europe. Environmetrics, 2007, 18, 409-420.	1.4	4
94	Models, Data, Statistics, And Outliersâ€"A Statistical Revolution In Archaeology and 14C Dating. Radiocarbon, 2011, 53, 559-562.	1.8	4
95	Preliminary Results for Estimating the Bone Background Uncertainties at SUERC Using Statistical Analysis. Radiocarbon, 2017, 59, 1579-1587.	1.8	4
96	Leaving moss and litter layers undisturbed reduces the short-term environmental consequences of heathland managed burns. Journal of Environmental Management, 2017, 204, 102-110.	7.8	4
97	Nonparametric statistical downscaling for the fusion of data of different spatiotemporal support. Environmetrics, 2019, 30, e2549.	1.4	4
98	Development of an Early Warning System for Owners Using a Validated Health-Related Quality of Life (HRQL) Instrument for Companion Animals and Its Use in a Large Cohort of Dogs. Frontiers in Veterinary Science, 2020, 7, 575795.	2.2	4
99	State space functional principal component analysis to identify spatiotemporal patterns in remote sensing lake water quality. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2521-2536.	4.0	4
100	MoS$_2$ modified screen printed carbon electrode based flexible sensor for detection of Copper. , 2022, , .		4
101	C. E. Buck, W. G. Cavanagh and C. D. Litton. Bayesian Approach to Interpreting Archaeological Data. Chichester, England, J. Wiley and Son, 1996: 382 P. Isbn 0-4719619-7-3.. Radiocarbon, 1997, 39, 219-219.	1.8	3
102	A Review of 14C Waste Arising from the Nuclear Industry in the United Kingdom. Radiocarbon, 1997, 40, 425-432.	1.8	3
103	The Early Medieval Origin of Perth, Scotland. Radiocarbon, 2007, 49, 639-644.	1.8	3
104	A statistics primer. Journal of Small Animal Practice, 2011, 52, 456-458.	1.2	3
105	Bayesian P-splines and advanced computing in R for a changepoint analysis on spatio-temporal point processes. Journal of Statistical Computation and Simulation, 2016, 86, 2531-2545.	1.2	3
106	Life After SIRIâ€"Where Next?. Radiocarbon, 2019, 61, 1159-1168.	1.8	3
107	Adaptive smoothing to identify spatial structure in global lake ecological processes using satellite remote sensing data. Spatial Statistics, 2022, , 100615.	1.9	3
108	Framing data science, analytics and statistics aroundÂtheÂdigital earth concept. Environmetrics, 2023, 34, .	1.4	3

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109	Quantitative approaches to ecosystem services assessment. Environmetrics, 2011, 22, 597-597.	1.4	2
110	Optimisation of Scores Generated by an Online Feline Health–Related Quality of Life (HRQL) Instrument to Assist the Veterinary User Interpret Its Results. Frontiers in Veterinary Science, 2020, 7, 601304.	2.2	2
111	A new statistical approach for identifying rare species under imperfect detection. Diversity and Distributions, 2022, 28, 882-893.	4.1	2
112	Time-Varying Functional Principal Components for Non-Stationary EpCO$$_2$$ in Freshwater Systems. Journal of Agricultural, Biological, and Environmental Statistics, 2022, 27, 506-522.	1.4	2
113	What lies behind radiocarbon intercomparisons and the design of the new intercomparison, GIRI?. Nuclear Instruments & Methods in Physics Research B, 2022, 525, 62-66.	1.4	2
114	Report of the Business Meeting, Friday 19 August 1994. Radiocarbon, 1995, 37, 826-828.	1.8	1
115	Dating of the Tashtyk Cultural Remains from the Oglakhty Burial Ground (Southern Siberia). Radiocarbon, 2009, 51, 423-431.	1.8	1
116	Sensitivity analysis of linear time-invariant compartmental models with steady-state constraint. Journal of Applied Statistics, 2011, 38, 2485-2509.	1.3	1
117	The international surface temperature initiative. , 2013, , .		1
118	Smoothing of land use maps for trend and change detection in urbanization. Environmental and Ecological Statistics, 2016, 23, 565-584.	3.5	1
119	Initial Evidence to Support the Use of a Generic Health-Related Quality of Life Instrument to Measure Chronic Pain in Cats with Osteoarthritis. , 2018, 31, .		1
120	Statistics in Practice. , 2011, , 369-371.		0
121	The effect of tail-docking neonate piglets on ATF-3 and NR2B immunoreactivity in coccygeal dorsal root ganglia and spinal cord dorsal horn neurons: Preliminary data. Scandinavian Journal of Pain, 2012, 3, 184-185.	1.3	0
122	Initial Evidence to Support the use of Health-Related Quality of Life Measurement to Quantify the Impact of Cancer in Dogs. , 2018, 31, .		0