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	Framing data science, analytics and statistics aroundÂtheÂdigital earth concept. Environmetrics, 2023, 34, .	1.4	3
2	Adaptive smoothing to identify spatial structure in global lake ecological processes using satellite remote sensing data. Spatial Statistics, 2022, , 100615.	1.9	3
3	A new statistical approach for identifying rare species under imperfect detection. Diversity and Distributions, 2022, 28, 882-893.	4.1	2
4	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
5	MoS₂ modified screen printed carbon electrode based flexible sensor for detection of Copper. , 2022, , .		4
6	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
7	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
8	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
9	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
10	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
11	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
12	Field effects studies in the Chernobyl Exclusion Zone: Lessons to be learnt. Journal of Environmental Radioactivity, 2020, 211, 105893.	1.7	57
13	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
14	Findings from an in-Depth Annual Tree-Ring Radiocarbon Intercomparison. Radiocarbon, 2020, 62, 873-882.	1.8	22
15	The IntCal20 Northern Hemisphere Radiocarbon Age Calibration Curve (0â€“55 cal kBP). Radiocarbon, 2020, 62, 725-757.	1.8	3,502
16	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
17	Global lake thermal regions shift under climate change. Nature Communications, 2020, 11, 1232.	12.8	96
18	Evidence for seasonal cycles in deepâ€sea fish abundances: A great migration in the deep SE Atlantic?. Journal of Animal Ecology, 2020, 89, 1593-1603.	2.8	17

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19	Recent Developments in Calibration for Archaeological and Environmental Samples. Radiocarbon, 2020, 62, 1095-1117.	1.8	47
20	Optimisation of Scores Generated by an Online Feline Healthâ€“Related Quality of Life (HRQL) Instrument to Assist the Veterinary User Interpret Its Results. Frontiers in Veterinary Science, 2020, 7, 601304.	2.2	2
21	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
22	Nonparametric statistical downscaling for the fusion of data of different spatiotemporal support. Environmetrics, 2019, 30, e2549.	1.4	4
23	Spatiotemporal modeling of hydrological return levels: A quantile regression approach. Environmetrics, 2019, 30, e2522.	1.4	7
24	Life After SIRIâ€”Where Next?. Radiocarbon, 2019, 61, 1159-1168.	1.8	3
25	Humicsâ€”Their History in the Radiocarbon Intercomparison Studies. Radiocarbon, 2019, 61, 1413-1422.	1.8	6
26	Learning from the Wood Samples in ICS, TIRI, FIRI, VIRI, and SIRI. Radiocarbon, 2019, 61, 1293-1304.	1.8	9
27	Geography and the waterâ€“energyâ€“food nexus: Introduction. Geographical Journal, 2019, 185, 373-376.	3.1	5
28	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
29	Increased fire severity alters initial vegetation regeneration across Calluna-dominated ecosystems. Journal of Environmental Management, 2019, 231, 1004-1011.	7.8	22
30	Scaling the nexus: Towards integrated frameworks for analysing water, energy and food. Geographical Journal, 2019, 185, 419-431.	3.1	55
31	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
32	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
33	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
34	Optical types of inland and coastal waters. Limnology and Oceanography, 2018, 63, 846-870.	3.1	196
35	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
36	Multivariate spaceâ€time modelling of multiple air pollutants and their health effects accounting for exposure uncertainty. Statistics in Medicine, 2018, 37, 1134-1148.	1.6	26

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37	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
38	Initial Evidence to Support the use of Health-Related Quality of Life Measurement to Quantify the Impact of Cancer in Dogs. , 2018, 31, .		0
39	Definitive Glasgow acute pain scale for cats: validation and intervention level. Veterinary Record, 2017, 180, 449-449.	0.3	110
40	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
41	Preliminary Results for Estimating the Bone Background Uncertainties at SUERC Using Statistical Analysis. Radiocarbon, 2017, 59, 1579-1587.	1.8	4
42	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
43	Should Archaeologists Care about ¹⁴C Intercomparisons? Why? A Summary Report on SIRI. Radiocarbon, 2017, 59, 1589-1596.	1.8	32
44	Investigation of the Analytical F¹⁴C Bone Background Value at SUERC. Radiocarbon, 2017, 59, 1463-1473.	1.8	5
45	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
46	Smoothing of land use maps for trend and change detection in urbanization. Environmental and Ecological Statistics, 2016, 23, 565-584.	3.5	1
47	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
48	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
49	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
50	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
51	Do agonistic behaviours bias baited remote underwater video surveys of fish?. Marine Ecology, 2015, 36, 810-818.	1.1	25
52	Urban sprawl scatterplots for Urban Morphological Zones data. Ecological Indicators, 2014, 36, 315-323.	6.3	46
53	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
54	Environmental regulation, sustainability and risk. Sustainability Accounting, Management and Policy Journal, 2013, 4, 120-144.	4.1	16

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55	The international surface temperature initiative. , 2013, , .		1
56	IntCal13 and Marine13 Radiocarbon Age Calibration Curves 0â€“50,000 Years cal BP. Radiocarbon, 2013, 55, 1869-1887.	1.8	9,487
57	Calibration for Archaeological and Environmental Terrestrial Samples in the Time Range 26â€“50 ka cal BP. Radiocarbon, 2013, 55, 2021-2027.	1.8	118
58	Functional clustering of water quality data inâ€‰Scotland. Environmetrics, 2012, 23, 685-695.	1.4	12
59	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
60	Sensitivity analysis of linear time-invariant compartmental models with steady-state constraint. Journal of Applied Statistics, 2011, 38, 2485-2509.	1.3	1
61	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
62	Models, Data, Statistics, And Outliersâ€”A Statistical Revolution In Archaeology and 14C Dating. Radiocarbon, 2011, 53, 559-562.	1.8	4
63	Statistics in Practice. , 2011, , 369-371.		0
64	A statistics primer. Journal of Small Animal Practice, 2011, 52, 456-458.	1.2	3
65	Ecosystem services and associated concepts. Environmetrics, 2011, 22, 598-607.	1.4	33
66	The role of statistics in the analysis of ecosystem services. Environmetrics, 2011, 22, 608-617.	1.4	27
67	Quantitative approaches to ecosystem services assessment. Environmetrics, 2011, 22, 597-597.	1.4	2
68	The Fifth International Radiocarbon Intercomparison (VIRI): An Assessment of Laboratory Performance in Stage 3. Radiocarbon, 2010, 52, 859-865.	1.8	87
69	¹⁴C AMS at Suerc: Improving QA Data with the 5MV Tandem and 250KV SSAMS. Radiocarbon, 2010, 52, 263-271.	1.8	32
70	A Report on Phase 2 of the Fifth International Radiocarbon Intercomparison (VIRI). Radiocarbon, 2010, 52, 846-858.	1.8	63
71	Dating of the Tashtyk Cultural Remains from the Oglakhty Burial Ground (Southern Siberia). Radiocarbon, 2009, 51, 423-431.	1.8	1
72	Calibration Introduction. Radiocarbon, 2009, 51, 283-285.	1.8	7

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73	Multivariate varyingâ€coefficient models for an ecological system. Environmetrics, 2009, 20, 460-476.	1.4	12
74	Assessing ecological responses to environmental change using statistical models. Journal of Applied Ecology, 2008, 45, 193-203.	4.0	57
75	A Report on Phase 1 of the 5th International Radiocarbon Intercomparison (VIRI). Radiocarbon, 2007, 49, 409-426.	1.8	44
76	Error and Uncertainty in Radiocarbon Measurements. Radiocarbon, 2007, 49, 427-440.	1.8	44
77	A Cremated Bone Intercomparison Study. Radiocarbon, 2007, 49, 403-408.	1.8	49
78	The Early Medieval Origin of Perth, Scotland. Radiocarbon, 2007, 49, 639-644.	1.8	3
79	Temporal analysis of spatial covariance ofSO2 in Europe. Environmetrics, 2007, 18, 409-420.	1.4	4
80	Water quality in the River Clyde: a case study of additive and interaction models. Environmetrics, 2007, 18, 527-539.	1.4	5
81	Setting, and evaluating the effectiveness of, environmental policy. Environmetrics, 2007, 18, 333-343.	1.4	9
82	Influence of Mollusk Species on Marine Î”R Determinations. Radiocarbon, 2005, 47, 433-440.	1.8	53
83	Holocene Variations in the Scottish Marine Radiocarbon Reservoir Effect. Radiocarbon, 2004, 46, 611-620.	1.8	51
84	Capabilities of the New SUERC 5MV AMS Facility for ¹⁴C Dating. Radiocarbon, 2004, 46, 59-64.	1.8	84
85	Reconstructing the history of14C discharges from Sellafield. Journal of Radioanalytical and Nuclear Chemistry, 2004, 260, 239-247.	1.5	7
86	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
87	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
88	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
89	Is there a Fifth International Radiocarbon Intercomparison (VIRI)?. Radiocarbon, 2003, 45, 493-495.	1.8	77
90	Non-Linear and Nonparametric Modelling of Seasonal Environmental Data. Computational Statistics, 2003, 18, 167-183.	1.5	5

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91	Summary findings of the fourth international radiocarbon intercomparison (FIRI)(1998-2001). Journal of Quaternary Science, 2002, 17, 633-637.	2.1	39
92	Towards a Radiocarbon Chronology of the Late-Glacial: Sample Selection Strategies. Radiocarbon, 2001, 43, 1007-1019.	1.8	47
93	Is Comparability of ¹⁴C Dates an Issue?: A Status Report on the Fourth International Radiocarbon Intercomparison. Radiocarbon, 2001, 43, 321-324.	1.8	6
94	A Chronology of the Scythian Antiquities of Eurasia Based on New Archaeological and ¹⁴C Data. Radiocarbon, 2001, 43, 1085-1107.	1.8	40
95	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
96	Sulphur isotope variations in diagenetic pyrite from core plug to sub-millimetre scales. Clay Minerals, 2000, 35, 303-311.	0.6	11
97	The measurement of99Tc in seaweed: Results from an international intercomparison exercise. Journal of Radioanalytical and Nuclear Chemistry, 1999, 242, 413-418.	1.5	10
98	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
99	Interlaboratory Comparisons: Lessons Learned. Radiocarbon, 1997, 40, 331-340.	1.8	11
100	A Review of 14C Waste Arising from the Nuclear Industry in the United Kingdom. Radiocarbon, 1997, 40, 425-432.	1.8	3
101	Consensus Dating of Mammoth Remains from Wrangel Island. Radiocarbon, 1997, 40, 289-294.	1.8	6
102	Analytical Protocol and Quality Assurance for ¹⁴C Analyses: Proposal for A Further Intercomparison. Radiocarbon, 1997, 39, 347-350.	1.8	8
103	Stable carbon isotope variations in northwest Europe during the last glacialâ€“interglacial transition. , 1997, 12, 339-344.		21
104	Language impairment and aggression in Alzheimer's disease. International Journal of Geriatric Psychiatry, 1996, 11, 257-261.	2.7	17
105	Anthropogenic 14C Marine Geochemistry in the Vicinity of a Nuclear Fuel Reprocessing Plant. Radiocarbon, 1995, 37, 459-467.	1.8	23
106	Report of the TIRI Workshop, Saturday 13 August 1994. Radiocarbon, 1995, 37, 820-821.	1.8	66
107	Report of the Business Meeting, Friday 19 August 1994. Radiocarbon, 1995, 37, 826-828.	1.8	1
108	Making the most of radiocarbon dating: some statistical considerations. Antiquity, 1994, 68, 252-263.	1.0	59

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109	The IAEA ¹⁴C Intercomparison Exercise 1990. Radiocarbon, 1992, 34, 506-519.	1.8	231
110	The Statistics of Low-Level Counting Using the New Generation of Packard Liquid Scintillation Counters. Radiocarbon, 1992, 34, 360-365.	1.8	4
111	Announcement of a Further International Intercomparison Exercise. Radiocarbon, 1992, 34, 528-532.	1.8	19
112	Further Analysis of the International Intercomparison Study (ICS). Radiocarbon, 1992, 34, 520-527.	1.8	8
113	Anthropogenic Radiocarbon in the Eastern Irish Sea and Scottish Coastal Waters. Radiocarbon, 1992, 34, 707-716.	1.8	23
114	Radiocarbon: present and future perspectives on quality assurance. Antiquity, 1990, 64, 319-322.	1.0	8
115	International Collaborative Study: Structuring and Sample Preparation. Radiocarbon, 1990, 32, 267-270.	1.8	8
116	An Overview of Some Interlaboratory Studies. Radiocarbon, 1990, 32, 259-265.	1.8	7
117	Report on Stage 3 of the International Collaborative Program. Radiocarbon, 1990, 32, 271-278.	1.8	12
118	An Overview of All Three Stages of the International Radiocarbon Intercomparison. Radiocarbon, 1990, 32, 309-319.	1.8	54
119	Design and Preparation of Samples for the International Collaborative Study. Radiocarbon, 1989, 31, 407-413.	1.8	12
120	An Interim Progress Report on Stages 1 and 2 of the International Collaborative Program. Radiocarbon, 1989, 31, 414-421.	1.8	18
121	Announcement of A New Collaborative Study for Intercalibration of ¹⁴C Dating Laboratories. Radiocarbon, 1986, 28, 167-169.	1.8	7
122	Global and Local Effects of 14C Discharges from the Nuclear Fuel Cycle. Radiocarbon, 1986, 28, 634-643.	1.8	16