

# Stewart Pht Freeman

## List of Publications by Year in descending order

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86  
papers

2,629  
citations

159525

30  
h-index

214721

47  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deglacial history of the West Antarctic Ice Sheet in the Weddell Sea embayment: Constraints on past ice volume change. <i>Geology</i> , 2010, 38, 411-414.	2.0	138
2	Towards more precise $^{10}\text{Be}$ and $^{36}\text{Cl}$ data from measurements at the $10^{14}$ level: Influence of sample preparation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 4921-4926.	0.6	134
3	Southern Patagonian glacial chronology for the Last Glacial period and implications for Southern Ocean climate. <i>Quaternary Science Reviews</i> , 2008, 27, 284-294.	1.4	106
4	Iodine Isotopes in Precipitation: Temporal Responses to $^{129}\text{I}$ Emissions from the Fukushima Nuclear Accident. <i>Environmental Science &amp; Technology</i> , 2013, 47, 10851-10859.	4.6	106
5	Improved $^{10}\text{Be}$ and $^{26}\text{Al}$ -AMS with a 5MV spectrometer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 736-738.	0.6	89
6	Analytical Performance of Accelerator Mass Spectrometry and Liquid Scintillation Counting for Detection of $^{14}\text{C}$ -Labeled Atrazine Metabolites in Human Urine. <i>Analytical Chemistry</i> , 1998, 70, 3463-3469.	3.2	77
7	Single-grain cosmogenic $^{21}\text{Ne}$ concentrations in fluvial sediments reveal spatially variable erosion rates. <i>Geology</i> , 2008, 36, 159.	2.0	72
8	The use of $^{14}\text{C}$ bomb spike calibration and high-precision AMS $^{14}\text{C}$ analyses to date salt-marsh sediments deposited during the past three centuries. <i>Quaternary Research</i> , 2007, 68, 325-337.	1.0	62
9	The deglacial history of southeast sector of the Greenland Ice Sheet during the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2008, 27, 1505-1516.	1.4	60
10	Speciation of Radiocesium and Radioiodine in Aerosols from Tsukuba after the Fukushima Nuclear Accident. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1017-1024.	4.6	59
11	Ultra-trace analysis of $^{36}\text{Cl}$ by accelerator mass spectrometry: an interlaboratory study. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3125-3132.	1.9	56
12	Cosmogenic nuclide measurements in southernmost South America and implications for landscape change. <i>Geomorphology</i> , 2007, 87, 284-301.	1.1	55
13	Cosmogenic $^{10}\text{Be}$ and $^{26}\text{Al}$ dating of paleolake shorelines in Tibet. <i>Journal of Asian Earth Sciences</i> , 2011, 41, 263-273.	1.0	55
14	SUERC AMS ion detection. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 259, 131-139.	0.6	53
15	Extent of the last ice sheet in northern Scotland tested with cosmogenic $^{10}\text{Be}$ exposure ages. <i>Journal of Quaternary Science</i> , 2008, 23, 101-107.	1.1	49
16	Rapid deglaciation of Marguerite Bay, western Antarctic Peninsula in the Early Holocene. <i>Quaternary Science Reviews</i> , 2011, 30, 3338-3349.	1.4	48
17	Comparison of DNA-adduct and tissue-available dose levels of MeIQx in human and rodent colon following administration of a very low dose. , 1999, 80, 539-545.		46
18	Holocene deglacial history of the northeast Antarctic Peninsula – A review and new chronological constraints. <i>Quaternary Science Reviews</i> , 2011, 30, 3791-3802.	1.4	46

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19	Tips and traps in the <sup>14</sup> C bio-AMS preparation laboratory. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 404-408.	0.6	45
20	The LLNL AMS facility. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 57-61.	0.6	44
21	Biological sample preparation and <sup>41</sup> Ca AMS measurement at LLNL. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 557-561.	0.6	41
22	A preliminary evaluation of accelerator mass spectrometry in the biomedical field. Journal of Pharmaceutical and Biomedical Analysis, 1997, 16, 541-543.	1.4	41
23	The SUERC AMS laboratory after 3 years. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 66-70.	0.6	41
24	First cosmogenic <sup>10</sup> Be age constraint on the timing of Younger Dryas glaciation and ice cap thickness, western Scottish Highlands. Journal of Quaternary Science, 2007, 22, 785-791.	1.1	40
25	Performance of the new single stage accelerator mass spectrometer at the SUERC. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2225-2228.	0.6	40
26	Improved SSAMS performance. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 715-717.	0.6	40
27	The study of skeletal calcium metabolism with <sup>41</sup> Ca and <sup>45</sup> Ca. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 930-933.	0.6	39
28	Mid-Holocene pulse of thinning in the Weddell Sea sector of the West Antarctic ice sheet. Nature Communications, 2016, 7, 12511.	5.8	39
29	Human calcium metabolism including bone resorption measured with <sup>41</sup> Ca tracer. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 266-270.	0.6	38
30	<sup>10</sup> Be chronology of the last deglaciation of County Donegal, northwestern Ireland. Boreas, 2009, 38, 111-118.	1.2	37
31	Paleoseismology of the Mejillones Fault, northern Chile: Insights from cosmogenic <sup>10</sup> Be and optically stimulated luminescence determinations. Tectonics, 2012, 31, .	1.3	35
32	Cosmogenic <sup>10</sup> Be and <sup>26</sup> Al ages of Holocene moraines in southern Norway I: testing the method and confirmation of the date of the Èrdalen Event (<i>c</i>. 10 ka) at its type-site. Holocene, 2008, 18, 1155-1164.	0.9	31
33	In-situ cosmogenic <sup>36</sup> Cl denudation rates of carbonates in Guizhou karst area. Science Bulletin, 2013, 58, 2473-2479.	1.7	31
34	Evidence for the stability of the West Antarctic Ice Sheet divide for 1.4 million years. Nature Communications, 2016, 7, 10325.	5.8	31
35	A gas ion source for radiocarbon measurement at SUERC. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 76-82.	0.6	30
36	Cosmogenic nuclide exposure ages from the â€˜Parallel Roadsâ€™™ of Glen Roy, Scotland. Journal of Quaternary Science, 2010, 25, 597-603.	1.1	30

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37	Decadal $^{10}\text{Be}$ , $^{26}\text{Al}$ and $^{36}\text{Cl}$ QA measurements on the SUERC 5 MV accelerator mass spectrometer. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 39-42.	0.6	28
38	Distribution and metabolism of 2-amino-1-methyl-6-phenylimidazo[4,5- b]pyridine (PhIP) in female rats and their pups at dietary doses. Carcinogenesis, 1998, 19, 919-924.	1.3	27
39	The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica. Earth and Planetary Science Letters, 2017, 469, 42-52.	1.8	26
40	Radiocarbon concentration in modern tree rings from Fukushima, Japan. Journal of Environmental Radioactivity, 2015, 146, 67-72.	0.9	25
41	Deglacial history of the Pensacola Mountains, Antarctica from glacial geomorphology and cosmogenic nuclide surface exposure dating. Quaternary Science Reviews, 2017, 158, 58-76.	1.4	24
42	PXAMS " projectile X-ray AMS: X-ray yields and applications. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 541-545.	0.6	23
43	Improved $^{36}\text{Cl}$ AMS at 5MV. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 748-751.	0.6	23
44	Biomedical accelerator mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1995, 143, 247-256.	1.9	22
45	A new environmental sciences AMS laboratory in Scotland. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 31-34.	0.6	22
46	$^{129}\text{I}/^{127}\text{I}$ ratios in Scottish coastal surface sea water: Geographical and temporal responses to changing emissions. Applied Geochemistry, 2007, 22, 619-627.	1.4	22
47	New $^{10}\text{Be}$ cosmogenic ages from the vimmerby moraine confirm the timing of scandinavian ice sheet deglaciation in southern sweden. Geografiska Annaler, Series A: Physical Geography, 2009, 91, 113-120.	0.6	22
48	Radiocarbon positive-ion mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 229-232.	0.6	22
49	Rates of erosion and landscape change along the Blue Ridge escarpment, southern Appalachian Mountains, estimated from <i>in situ</i> cosmogenic $^{10}\text{Be}$ . Earth Surface Processes and Landforms, 2017, 42, 928-940.	1.2	22
50	Quality assurance in accelerator mass spectrometry: Results from an international round-robin exercise for $^{10}\text{Be}$ . Nuclear Instruments & Methods in Physics Research B, 2012, 289, 68-73.	0.6	21
51	$^{14}\text{C}$ levels in the vicinity of the Fukushima Dai-ichi Nuclear Power Plant prior to the 2011 accident. Journal of Environmental Radioactivity, 2016, 157, 90-96.	0.9	19
52	$^{129}\text{I}/^{127}\text{I}$ ratios in surface waters of the English Lake District. Applied Geochemistry, 2007, 22, 628-636.	1.4	18
53	Comparison of $^{41}\text{Ca}$ analysis on 0.5MV and 5MV-AMS systems. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 752-755.	0.6	18
54	Inter-comparison in $^{10}\text{Be}$ analysis starting from pre-purified quartz. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 571-575.	0.6	17

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55	Erosion rates in and around Shenandoah National Park, Virginia, determined using analysis of cosmogenic <sup>10</sup> Be. <i>Numerische Mathematik</i> , 2015, 315, 46-76.	0.7	17
56	Microbeam PIXE analysis using wavelength dispersive spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1995, 99, 427-430.	0.6	16
57	Species and Strain Comparisons in the Macromolecular Binding of Extremely Low Doses of [ <sup>14</sup> C]Benzene in Rodents, Using Accelerator Mass Spectrometry. <i>Toxicology and Applied Pharmacology</i> , 1999, 159, 83-90.	1.3	16
58	<sup>36</sup> Cl accelerator mass spectrometry with a bespoke instrument. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 294, 107-114.	0.6	16
59	Imaging AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 92, 231-236.	0.6	13
60	Initial measurements with the SUERC accelerator mass spectrometer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 195-198.	0.6	13
61	Iodine isotopes in precipitation: Four-year time series variations before and after 2011 Fukushima nuclear accident. <i>Journal of Environmental Radioactivity</i> , 2016, 155-156, 38-45.	0.9	12
62	Carbonate and silicate intercomparison materials for cosmogenic <sup>36</sup> Cl measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 455, 250-259.	0.6	12
63	Combined unsteady denudation and climatic gradient factors constrain carbonate landscape evolution: New insights from in situ cosmogenic <sup>36</sup> Cl. <i>Quaternary Geochronology</i> , 2020, 58, 101075.	0.6	12
64	Elements in biological AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 123, 241-244.	0.6	10
65	Analysis of <sup>129</sup> I and <sup>127</sup> I in soils of the Chernobyl Exclusion Zone, 29 years after the deposition of <sup>129</sup> I. <i>Science of the Total Environment</i> , 2019, 692, 966-974.	3.9	9
66	Imaging SIMS with an accelerator (and biomedical applications). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1993, 79, 627-630.	0.6	8
67	Deglacial history of the West Antarctic Ice Sheet in the Weddell Sea embayment: Constraints on past ice volume change: REPLY. <i>Geology</i> , 2011, 39, e240-e240.	2.0	8
68	Cl can interfere with Al <sup>3+</sup> AMS but B need not matter to Be measurement. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 294, 403-405.	0.6	8
69	<sup>26</sup> Al interferences in accelerator mass spectrometry measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 333, 42-45.	0.6	8
70	The design of a radiocarbon muprobe for tracer mapping in biological specimens. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1990, 52, 405-409.	0.6	7
71	Sputter-pits casting to measure AMS sample consumption. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 361, 168-172.	0.6	7
72	Quantifying variable erosion rates to understand the coupling of surface processes in the Teton Range, Wyoming. <i>Geomorphology</i> , 2015, 228, 409-420.	1.1	7

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73	Cosmic-ray exposure age of Martian meteorite GRV 99027. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 1521-1524.	0.9	6
74	Positive ion AMS with a single-stage accelerator and an RF-plasma ion source at SUERC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2229-2232.	0.6	5
75	Attempted positive ion radiocarbon AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 712-714.	0.6	5
76	160 keV <sup>26</sup> Al-AMS with a single-stage accelerator mass spectrometer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 361, 307-310.	0.6	5
77	Single-stage accelerator mass spectrometer radiocarbon-interference identification and positive-ionisation characterisation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 294, 353-355.	0.6	4
78	Performance of the rebuilt SUERC single-stage accelerator mass spectrometer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 361, 76-79.	0.6	4
79	Comparison of DNA adduct and tissue available dose levels of MeIQx in human and rodent colon following administration of a very low dose. <i>International Journal of Cancer</i> , 1999, 80, 539-545.	2.3	4
80	<sup>129</sup> I and <sup>137</sup> Cs in groundwater in the vicinity of Fukushima Dai-ichi nuclear power plant. <i>Geochemical Journal</i> , 2016, 50, 287-291.	0.5	4
81	Identification of <sup>129</sup> I interferences in accelerator mass spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 438, 96-100.	0.6	3
82	Ice-free valleys in the Neptune Range of the Pensacola Mountains, Antarctica: glacial geomorphology, geochronology and potential as palaeoenvironmental archives. <i>Antarctic Science</i> , 2021, 33, 428-455.	0.5	3
83	The bioscience nuclear microscopy program at LLNL. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 130, 419-425.	0.6	1
84	Cosmogenic <sup>10</sup> Be chronology of the last deglaciation of western Ireland, and implications for sensitivity of the Irish Ice Sheet to climate Change. <i>Bulletin of the Geological Society of America</i> , 2006, preprint, 1.	1.6	1
85	Carbon carbon detection: Diamond detectors and AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 851-853.	0.6	0
86	Corrigendum to "The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica" [ <i>Earth and Planetary Science Letters</i> 469 (2017) 42-52]. <i>Earth and Planetary Science Letters</i> , 2018, 502, 291-292.	1.8	0