

Stewart J Fallon

List of Publications by Citations

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120
papers

6,040
citations

33
h-index

76
g-index

125
ext. papers

6,741
ext. citations

6.6
avg, IF

5.31
L-index

#	Paper	IF	Citations
120	Comet 81P/Wild 2 under a microscope. <i>Science</i> , 2006 , 314, 1711-6	33.3	739
119	Mineralogy and petrology of comet 81P/Wild 2 nucleus samples. <i>Science</i> , 2006 , 314, 1735-9	33.3	541
118	Coral record of increased sediment flux to the inner Great Barrier Reef since European settlement. <i>Nature</i> , 2003 , 421, 727-30	50.4	534
117	Ventilation of the deep Southern Ocean and deglacial CO ₂ rise. <i>Science</i> , 2010 , 328, 1147-51	33.3	363
116	Isotopic compositions of cometary matter returned by Stardust. <i>Science</i> , 2006 , 314, 1724-8	33.3	308
115	Extreme longevity in proteinaceous deep-sea corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5204-8	11.5	173
114	Corals at their latitudinal limits: laser ablation trace element systematics in Porites from Shirigai Bay, Japan. <i>Earth and Planetary Science Letters</i> , 1999 , 172, 221-238	5.3	171
113	Porites corals as recorders of mining and environmental impacts: Misima Island, Papua New Guinea. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 45-62	5.5	162
112	High-resolution coral records of rare earth elements in coastal seawater: biogeochemical cycling and a new environmental proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 2067-2080	5.5	142
111	Source of trace element variability in Great Barrier Reef corals affected by the Burdekin flood plumes. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 231-246	5.5	140
110	Fossil and contemporary fine particulate carbon fractions at 12 rural and urban sites in the United States. <i>Journal of Geophysical Research</i> , 2008 , 113,		135
109	Fixation and fate of C and N in the cyanobacterium <i>Trichodesmium</i> using nanometer-scale secondary ion mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6345-50	11.5	133
108	Carbon and nitrogen fixation and metabolite exchange in and between individual cells of <i>Anabaena oscillarioides</i> . <i>ISME Journal</i> , 2007 , 1, 354-60	11.9	123
107	The chronology of the earliest Upper Palaeolithic in northern Iberia: New insights from L'Arbreda, Labeko Koba and La Viña. <i>Journal of Human Evolution</i> , 2014 , 69, 91-109	3.1	111
106	Element partitioning between magnesium silicate perovskite and ferropericlase: New insights into bulk lower-mantle geochemistry. <i>Earth and Planetary Science Letters</i> , 2008 , 269, 164-174	5.3	107
105	Rapid glaciation and a two-step sea level plunge into the Last Glacial Maximum. <i>Nature</i> , 2018 , 559, 603-607	607.4	99
104	Examining water temperature proxies in Porites corals from the Great Barrier Reef: a cross-shelf comparison. <i>Coral Reefs</i> , 2003 , 22, 389-404	4.2	97

103	A refractory inclusion returned by Stardust from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1861-1877	2.8	92
102	Offsetting of CO ₂ emissions by air capture in mine tailings at the Mount Keith Nickel Mine, Western Australia: Rates, controls and prospects for carbon neutral mining. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 25, 121-140	4.2	83
101	Radiocarbon-based ages and growth rates of bamboo corals from the Gulf of Alaska. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	79
100	Effects of chronic low carbonate saturation levels on the distribution, growth and skeletal chemistry of deep-sea corals and other seamount megabenthos. <i>Marine Ecology - Progress Series</i> , 2011 , 442, 87-99	2.6	79
99	Reduced ventilation and enhanced magnitude of the deep Pacific carbon pool during the last glacial period. <i>Earth and Planetary Science Letters</i> , 2015 , 411, 45-52	5.3	78
98	Imaging and 3D elemental characterization of intact bacterial spores by high-resolution secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 5986-92	7.8	73
97	Radiocarbon evidence for alternating northern and southern sources of ventilation of the deep Atlantic carbon pool during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5480-4	11.5	67
96	Response of the Great Barrier Reef to sea-level and environmental changes over the past 30,000 years. <i>Nature Geoscience</i> , 2018 , 11, 426-432	18.3	61
95	Subarctic weathering of mineral wastes provides a sink for atmospheric CO ₂ . <i>Environmental Science & Technology</i> , 2011 , 45, 7727-36	10.3	56
94	Relative contributions of fossil and contemporary carbon sources to PM 2.5 aerosols at nine Interagency Monitoring for Protection of Visual Environments (IMPROVE) network sites. <i>Journal of Geophysical Research</i> , 2007 , 112,		56
93	North Atlantic versus Southern Ocean contributions to a deglacial surge in deep ocean ventilation. <i>Geology</i> , 2013 , 41, 667-670	5	55
92	Wintertime stress, nursing, and lead exposure in Neanderthal children. <i>Science Advances</i> , 2018 , 4, eaau9443,	9.3	45
91	A Minimum Age For Early Depictions Of Southeast Asian Praus in the Rock Art of Arnhem Land, Northern Territory. <i>Australian Archaeology</i> , 2010 , 71, 1-10	0.8	42
90	Robust chronological reconstruction for young speleothems using radiocarbon. <i>Quaternary Geochronology</i> , 2012 , 14, 67-80	2.7	37
89	Surface water processes in the Indonesian throughflow as documented by a high-resolution coral $\delta^{14}\text{C}$ record. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
88	Reproducibility of trace element profiles in a specimen of the deep-water bamboo coral <i>Keratoisis</i> sp.. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 5101-5121	5.5	34
87	Growth and chronology of the rhodolith-forming, coralline red alga <i>Sporolithon durum</i> . <i>Marine Ecology - Progress Series</i> , 2013 , 474, 105-119	2.6	33
86	Greater soil carbon stocks and faster turnover rates with increasing agricultural productivity. <i>Soil</i> , 2017 , 3, 1-16	5.8	31

85	Fish otolith geochemistry, environmental conditions and human occupation at Lake Mungo, Australia. <i>Quaternary Science Reviews</i> , 2014 , 88, 82-95	3.9	31
84	Uranium-series age estimates for rock art in southwest China. <i>Journal of Archaeological Science</i> , 2012 , 39, 492-499	2.9	30
83	Radiocarbon Dates from Jar and Coffin Burials of the Cardamom Mountains Reveal a Unique Mortuary Ritual in Cambodia's Late- to Post-Angkor Period (15th–17th Centuries AD). <i>Radiocarbon</i> , 2012 , 54, 1-22	4.6	30
82	Multi-century time-series of ^{15}N and ^{14}C in bamboo corals from deep Tasmanian seamounts: evidence for stable oceanographic conditions. <i>Marine Ecology - Progress Series</i> , 2009 , 397, 209-218	2.6	29
81	Pre-Bomb Marine Reservoir Variability in the Kimberley Region, Western Australia. <i>Radiocarbon</i> , 2010 , 52, 1158-1165	4.6	28
80	CAMS/LLNL ion source efficiency revisited. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 259, 106-110	1.2	28
79	Formation of spinel-, hibonite-rich inclusions found in CM2 carbonaceous chondrites. <i>American Mineralogist</i> , 2006 , 91, 1675-1687	2.9	28
78	Phasing of millennial-scale climate variability in the Pacific and Atlantic Oceans. <i>Science</i> , 2020 , 370, 716-720	3.9	28
77	Carbon isotope constraints on vertical mixing and air-sea CO_2 exchange. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	27
76	New dates on dingo bones from Madura Cave provide oldest firm evidence for arrival of the species in Australia. <i>Scientific Reports</i> , 2018 , 8, 9933	4.9	25
75	Bioluminescence flow visualization in the ocean: an initial strategy based on laboratory experiments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002 , 49, 2009-2033	2.5	25
74	A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte, South Australia. <i>Quaternary Science Reviews</i> , 2009 , 28, 2600-2615	3.9	24
73	Hydrotalcites and hydrated Mg-carbonates as carbon sinks in serpentinite mineral wastes from the Woodsreef chrysotile mine, New South Wales, Australia: Controls on carbonate mineralogy and efficiency of CO_2 air capture in mine tailings. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 79, 38-60	4.2	22
72	Redefining the inert organic carbon pool. <i>Soil Biology and Biochemistry</i> , 2016 , 92, 149-152	7.5	21
71	Chemical imaging with NanoSIMS: A window into deep-Earth geochemistry. <i>Earth and Planetary Science Letters</i> , 2007 , 262, 543-551	5.3	21
70	Age and growth of the cold-water scleractinian <i>Solenosmilia variabilis</i> and its reef on SW Pacific seamounts. <i>Coral Reefs</i> , 2014 , 33, 31-38	4.2	20
69	A simple radiocarbon dating method for determining the age and growth rate of deep-sea sponges. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 1241-1243	1.2	20
68	Radiocarbon evidence for mid-late Holocene changes in southwest Pacific Ocean circulation. <i>Paleoceanography</i> , 2016 , 31, 971-985		19

67	Time-resolved record of U and Pu isotopes from a coral growing during the nuclear testing program at Enewetak Atoll (Marshall Islands). <i>Journal of Environmental Radioactivity</i> , 2016 , 165, 197-205	2.4	19
66	Feasibility of age determination of deep-water bamboo corals (Gorgonacea; Isididae) from annual cycles in skeletal composition. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 442-449 ⁵	2.4	19
65	Magnesite formation in playa environments near Atlin, British Columbia, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 255, 1-24	5.5	18
64	Radiocarbon dating. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		18
63	Extraordinarily high biomass benthic community on Southern Ocean seamounts. <i>Scientific Reports</i> , 2011 , 1, 119	4.9	17
62	Seasonally resolved surface water $\delta^{14}\text{C}$ variability in the Lombok Strait: A coralline perspective. <i>Journal of Geophysical Research</i> , 2009 , 114,		16
61	Interpreting environmental signals from the coralline sponge <i>Astrosclera willeyana</i> . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005 , 228, 58-69	2.9	16
60	Holocene-Neogene volcanism in northeastern Australia: Chronology and eruption history. <i>Quaternary Geochronology</i> , 2017 , 39, 79-91	2.7	15
59	Early tropical crop production in marginal subtropical and temperate Polynesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8824-8833	11.5	15
58	Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland. <i>Quaternary Science Reviews</i> , 2019 , 218, 322-342	3.9	15
57	Preservation effects on the isotopic and elemental composition of skeletal structures in the deep-sea bamboo coral <i>Lepidisis</i> spp. (Isididae). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014 , 99, 199-206	2.3	15
56	Nuclear weapons produced U, Pu and Pu archived in a <i>Porites Lutea</i> coral from Enewetak Atoll. <i>Journal of Environmental Radioactivity</i> , 2017 , 178-179, 349-353	2.4	14
55	Assessing the Potential for Radiocarbon Dating the Scales of Australian Lungfish (<i>Neoceratodus Forsteri</i>). <i>Radiocarbon</i> , 2010 , 52, 1084-1089	4.6	14
54	Resolving the Holocene alluvial record in southeastern Australia using luminescence and radiocarbon techniques. <i>Journal of Quaternary Science</i> , 2010 , 25, 1160-1168	2.3	14
53	Investigating bomb radiocarbon transport in the southern Pacific Ocean with otolith radiocarbon. <i>Earth and Planetary Science Letters</i> , 2015 , 424, 59-68	5.3	12
52	Extracting growth rates from the nonlaminated coralline sponge <i>Astrosclera willeyana</i> using bomb radiocarbon. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 455-461	2.6	12
51	Graphitization of Small Carbonate Samples for Paleoceanographic Research at the Godwin Radiocarbon Laboratory, University of Cambridge. <i>Radiocarbon</i> , 2016 , 58, 89-97	4.6	12
50	A database of biological and geomorphological sea-level markers from the Last Glacial Maximum to present. <i>Scientific Data</i> , 2018 , 5, 180088	8.2	12

49	Holocene reef growth in the tropical southwestern Atlantic: Evidence for sea level and climate instability. <i>Quaternary Science Reviews</i> , 2019 , 218, 365-377	3.9	11
48	Modern Tasman Sea surface reservoir ages from deep-sea black corals. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014 , 99, 207-212	2.3	11
47	Radiocarbon Dates from Jar and Coffin Burials of the Cardamom Mountains Reveal a Unique Mortuary Ritual in Cambodia's Late- to Post-Angkor Period (15th-17th Centuries AD). <i>Radiocarbon</i> , 2012 , 54, 1-22	4.6	11
46	Abrupt late Pleistocene ecological and climate change on Tahiti (French Polynesia). <i>Journal of Biogeography</i> , 2016 , 43, 2438-2453	4.1	11
45	A Bore-top screen for trace element proxies of environmental conditions and growth rates in the calcite skeletons of bamboo corals (Isididae). <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 193, 75-99	5.5	11
44	Use of heavy liquid density separation to remove pyrite from sediment samples for radiocarbon dating. <i>Quaternary Geochronology</i> , 2015 , 25, 66-71	2.7	10
43	New radiocarbon ages for the Lower Murray River, South Australia. <i>Archaeology in Oceania</i> , 2012 , 47, 157-160	0.7	10
42	Elevated CO ₂ Has Little Influence on the Bacterial Communities Associated With the pH-Tolerant Coral, <i>Massive</i> spp. <i>Frontiers in Microbiology</i> , 2018 , 9, 2621	5.7	10
41	Radiocarbon analysis of halophilic microbial lipids from an Australian salt lake. <i>Quaternary Research</i> , 2012 , 77, 104-109	1.9	8
40	Morphology and evolution of drowned carbonate terraces during the last two interglacial cycles, off Hilo, NE Hawaii. <i>Marine Geology</i> , 2016 , 371, 57-81	3.3	7
39	Anomalous elevated radiocarbon measurements of PM2.5. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 294, 631-635	1.2	7
38	Gledswood Shelter 1: Initial Radiocarbon Dates from a Pleistocene Aged Rockshelter Site in Northwest Queensland. <i>Australian Archaeology</i> , 2009 , 69, 71-74	0.8	7
37	Deciphering sedimentary organic matter sources: Insights from radiocarbon measurements and NMR spectroscopy. <i>Limnology and Oceanography</i> , 2015 , 60, 739-753	4.8	6
36	Evaluating the Radiocarbon Reservoir Effect in Lake Kutubu, Papua New Guinea. <i>Radiocarbon</i> , 2019 , 61, 287-308	4.6	6
35	Stratigraphy, age and correlation of two widespread Late Holocene tephtras preserved within Lake Kutubu, Southern Highlands Province, Papua New Guinea. <i>Journal of Quaternary Science</i> , 2017 , 32, 782-794	2.3	6
34	New 14C dates for Spring Creek and Mowbray Swamp megafauna: XAD-2 processing. <i>Archaeology in Oceania</i> , 2015 , 50, 43-48	0.7	5
33	Evaluation of meteorites as habitats for terrestrial microorganisms: Results from the Nullarbor Plain, Australia, a Mars analogue site. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 215, 1-16	5.5	5
32	Updated Methods to Age the Australian Lungfish: Reply to Kemp (2015). <i>Radiocarbon</i> , 2015 , 57, 195-196	4.6	5

31	New evidence of late survival of beaver in Britain. <i>Holocene</i> , 2014 , 24, 1849-1855	2.6	5
30	Looking to the past to ensure the future of the world's oldest living vertebrate: Isotopic evidence for multi-decadal shifts in trophic ecology of the Australian lungfish. <i>River Research and Applications</i> , 2019 , 35, 1629-1639	2.3	4
29	SURFACE OCEAN RADIOCARBON FROM A PORITES CORAL RECORD IN THE GREAT BARRIER REEF: 1945-2017. <i>Radiocarbon</i> , 2021 , 63, 1193-1203	4.6	4
28	Sediment controls dynamic behavior of a Cordilleran Ice Stream at the Last Glacial Maximum. <i>Nature Communications</i> , 2020 , 11, 1826	17.4	3
27	Growth and longevity of New Zealand black corals. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020 , 162, 103298	2.5	3
26	Ageing Deep-Sea Black Coral <i>Bathypathes patula</i> . <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	3
25	Significance and timing of the mid-17th-century eruption of Long Island, Papua New Guinea. <i>Holocene</i> , 2018 , 28, 529-544	2.6	3
24	Long-term archaeological and historical archives for mulloway, <i>Argyrosomus japonicus</i> , populations in eastern South Australia. <i>Fisheries Research</i> , 2018 , 205, 1-10	2.3	2
23	Monitoring age-related trends in genomic diversity of Australian lungfish. <i>Molecular Ecology</i> , 2018 , 27, 3231	5.7	2
22	Coral growth bands recorded trace elements associated with the Fundā dam collapse. <i>Science of the Total Environment</i> , 2021 , 807, 150880	10.2	2
21	The archaic and puzzling record of Lake Xere Wapo, New Caledonia 2010 ,		2
20	The use of carbon isotopes (¹³ C, ¹⁴ C) in different soil types and vegetation coverage in a montane atlantic forest region, Southeast Brazil. <i>Quaternary Geochronology</i> , 2021 , 61, 101133	2.7	2
19	Carbon accounting of mined landscapes, and deployment of a geochemical treatment system for enhanced weathering at Woodsreef Chrysotile Mine, NSW, Australia. <i>Journal of Geochemical Exploration</i> , 2021 , 220, 106655	3.8	2
18	A record of mining and industrial activities in New Caledonia based on trace elements in rhodolith-forming coralline red algae. <i>Chemical Geology</i> , 2018 , 493, 24-36	4.2	2
17	Assessing multiproxy approaches (Sr/Ca, U/Ca, Li/Mg, and B/Mg) to reconstruct sea surface temperature from coral skeletons throughout the Great Barrier Reef. <i>Science of the Total Environment</i> , 2021 , 786, 147393	10.2	2
16	Age structure of the Australian lungfish (<i>Neoceratodus forsteri</i>). <i>PLoS ONE</i> , 2019 , 14, e0210168	3.7	1
15	Who's been using my burial mound? Radiocarbon dating and isotopic tracing of human diet and mobility at the collective burial site, Le Tumulus des Sables, southwest France. <i>Journal of Archaeological Science: Reports</i> , 2019 , 24, 955-966	0.7	1
14	Coral Record of Younger Dryas Chronozone Warmth on the Great Barrier Reef. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2020PA003962	3.3	1

13	Reply to Barber: Marginal evidence for taro production in northern New Zealand between 1200 and 1500 CE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1259-1260	11.5	1
12	Historical droughts in Southeast Australia recorded in a New South Wales stalagmite. <i>Holocene</i> , 2021 , 31, 607-617	2.6	1
11	Historical Contaminant Records from Sclerochronological Archives. <i>Developments in Paleoenvironmental Research</i> , 2015 , 355-391		1
10	Late Holocene coastal land-use, site formation and site survival: Insights from five middens at Cape Leveque and Lombadina, Dampier Peninsula, Kimberley, Australia. <i>Australian Archaeology</i> , 2020 , 86, 118-136	0.8	1
9	DO WEAK OR STRONG ACIDS REMOVE CARBONATE CONTAMINATION FROM ANCIENT TOOTH ENAMEL MORE EFFECTIVELY? THE EFFECT OF ACID PRETREATMENT ON RADIOCARBON AND $\delta^{13}C$ ANALYSES. <i>Radiocarbon</i> , 2021 , 63, 935-952	4.6	1
8	Prebomb to Postbomb ^{14}C History From the West Side of Palawan Island: Insights Into Oceanographic Changes in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015979	2.3	0
7	Apparent Periodic and Long-Term Changes in AAIW and UCDW Properties at Fixed Depths in the Southwest Pacific, With Indications of a Regime Shift in the 1930s. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092329	4.9	0
6	Environmental controls on holocene reef development along the eastern brazilian margin. <i>Coral Reefs</i> , 2021 , 40, 1321-1337	4.2	0
5	Nineteenth-century expeditions and the radiocarbon marine reservoir effect on the Brazilian coast. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 297, 276-287	5.5	0
4	EVALUATING THE RADIOCARBON RESERVOIR EFFECT IN LAKE KUTUBU, PAPUA NEW GUINEA □ CORRIGENDUM. <i>Radiocarbon</i> , 2020 , 62, 1525-1525	4.6	
3	A first look at oxygen isotope records from modern and Holocene-aged gastropod (<i>Stenomelania</i>) shells from Lake Kutubu, Papua New Guinea. <i>Journal of Quaternary Science</i> , 2020 , 35, 457-464	2.3	
2	Radiocarbon dates for coastal midden sites at Long Point in the Coorong, South Australia. <i>Australian Archaeology</i> , 2013 , 77, 141-147	0.8	
1	Improved CEfficiency and ion beam currents by modifying SNICS cathode material. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 439, 90-93	1.2	