

Stewart J Fallon

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

7,401
citations

94433

37
h-index

56724

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125
all docs

125
docs citations

125
times ranked

8003
citing authors

#	ARTICLE	IF	CITATIONS
1	Coral growth bands recorded trace elements associated with the Fundão dam collapse. <i>Science of the Total Environment</i> , 2022, 807, 150880.	8.0	8
2	Non-classical crystallization of very high magnesium calcite and magnesite in the Coorong Lakes, Australia. <i>Sedimentology</i> , 2022, 69, 2246-2266.	3.1	9
3	Nineteenth-century expeditions and the radiocarbon marine reservoir effect on the Brazilian coast. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 297, 276-287.	3.9	8
4	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.	1.4	5
5	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.	3.2	5
6	SURFACE OCEAN RADIOCARBON FROM A PORITES CORAL RECORD IN THE GREAT BARRIER REEF: 1945–2017. <i>Radiocarbon</i> , 2021, 63, 1193-1203.	1.8	6
7	DO WEAK OR STRONG ACIDS REMOVE CARBONATE CONTAMINATION FROM ANCIENT TOOTH ENAMEL MORE EFFECTIVELY? THE EFFECT OF ACID PRETREATMENT ON RADIOCARBON AND ¹³ C ANALYSES. <i>Radiocarbon</i> , 2021, 63, 935-952.	1.8	4
8	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.	4.0	2
9	Environmental controls on holocene reef development along the eastern brazilian margin. <i>Coral Reefs</i> , 2021, 40, 1321-1337.	2.2	1
10	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.	8.0	4
11	Radiocarbon dating. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	79
12	Historical droughts in Southeast Australia recorded in a New South Wales stalagmite. <i>Holocene</i> , 2021, 31, 607-617.	1.7	4
13	Phasing of millennial-scale climate variability in the Pacific and Atlantic Oceans. <i>Science</i> , 2020, 370, 716-720.	12.6	49
14	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.	2.6	3
15	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.	0.6	2
16	Coral Record of Younger Dryas Chronozone Warmth on the Great Barrier Reef. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003962.	2.9	5
17	Sediment controls dynamic behavior of a Cordilleran Ice Stream at the Last Glacial Maximum. <i>Nature Communications</i> , 2020, 11, 1826.	12.8	6
18	Growth and longevity of New Zealand black corals. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 162, 103298.	1.4	9

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19	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.	2.1	2
20	Ageing Deep-Sea Black Coral <i>Bathypathes patula</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
21	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.	7.1	1
22	Evaluating the Radiocarbon Reservoir Effect in Lake Kutubu, Papua New Guinea. <i>Radiocarbon</i> , 2019, 61, 287-308.	1.8	12
23	Holocene reef growth in the tropical southwestern Atlantic: Evidence for sea level and climate instability. <i>Quaternary Science Reviews</i> , 2019, 218, 365-377.	3.0	16
24	Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland. <i>Quaternary Science Reviews</i> , 2019, 218, 322-342.	3.0	23
25	Age structure of the Australian lungfish (<i>Neoceratodus forsteri</i>). <i>PLoS ONE</i> , 2019, 14, e0210168.	2.5	4
26	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.	0.5	4
27	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.	7.1	33
28	Magnesite formation in playa environments near Atlin, British Columbia, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 1-24.	3.9	33
29	Improved β efficiency and ion beam currents by modifying SNICS cathode material. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 439, 90-93.	1.4	0
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.	1.7	7
31	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.	1.7	4
32	Significance and timing of the mid-17th-century eruption of Long Island, Papua New Guinea. <i>Holocene</i> , 2018, 28, 529-544.	1.7	5
33	Elevated CO ₂ Has Little Influence on the Bacterial Communities Associated With the pH-Tolerant Coral, Massive <i>Porites</i> spp.. <i>Frontiers in Microbiology</i> , 2018, 9, 2621.	3.5	26
34	Hydroxaltes 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.	4.6	42
35	Wintertime stress, nursing, and lead exposure in Neanderthal children. <i>Science Advances</i> , 2018, 4, eaau9483.	10.3	63
36	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.	12.9	94

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37	A database of biological and geomorphological sea-level markers from the Last Glacial Maximum to present. <i>Scientific Data</i> , 2018, 5, 180088.	5.3	18
38	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.	3.3	5
39	Rapid glaciation and a two-step sea level plunge into the Last Glacial Maximum. <i>Nature</i> , 2018, 559, 603-607.	27.8	172
40	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.	3.3	45
41	Monitoring age-related trends in genomic diversity of Australian lungfish. <i>Molecular Ecology</i> , 2018, 27, 3231-3241.	3.9	8
42	Holocene-Neogene volcanism in northeastern Australia: Chronology and eruption history. <i>Quaternary Geochronology</i> , 2017, 39, 79-91.	1.4	25
43	Nuclear weapons produced ²³⁶ U, ²³⁹ Pu and ²⁴⁰ Pu archived in a <i>Porites Lutea</i> coral from Enewetak Atoll. <i>Journal of Environmental Radioactivity</i> , 2017, 178-179, 349-353.	1.7	19
44	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.	3.9	10
45	Stratigraphy, age and correlation of two widespread Late Holocene tephras preserved within Lake Kutubu, Southern Highlands Province, Papua New Guinea. <i>Journal of Quaternary Science</i> , 2017, 32, 782-794.	2.1	8
46	Greater soil carbon stocks and faster turnover rates with increasing agricultural productivity. <i>Soil</i> , 2017, 3, 1-16.	4.9	49
47	Abrupt late Pleistocene ecological and climate change on Tahiti (French Polynesia). <i>Journal of Biogeography</i> , 2016, 43, 2438-2453.	3.0	13
48	Graphitization of Small Carbonate Samples for Paleoceanographic Research at the Godwin Radiocarbon Laboratory, University of Cambridge. <i>Radiocarbon</i> , 2016, 58, 89-97.	1.8	14
49	A "core-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.	3.9	16
50	Radiocarbon evidence for mid-late Holocene changes in southwest Pacific Ocean circulation. <i>Paleoceanography</i> , 2016, 31, 971-985.	3.0	25
51	Time-resolved record of ²³⁶ U and ^{239,240} 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.	1.7	27
52	Redefining the inert organic carbon pool. <i>Soil Biology and Biochemistry</i> , 2016, 92, 149-152.	8.8	27
53	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.	2.1	8
54	Updated Methods to Age the Australian Lungfish: Reply to Kemp (2015). <i>Radiocarbon</i> , 2015, 57, 195-196.	1.8	6

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55	New ¹⁴ C dates for Spring Creek and Mowbray Swamp megafauna: XAD processing. <i>Archaeology in Oceania</i> , 2015, 50, 43-48.	0.7	6
56	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.	4.4	86
57	Investigating bomb radiocarbon transport in the southern Pacific Ocean with otolith radiocarbon. <i>Earth and Planetary Science Letters</i> , 2015, 424, 59-68.	4.4	15
58	Deciphering sedimentary organic matter sources: Insights from radiocarbon measurements and NMR spectroscopy. <i>Limnology and Oceanography</i> , 2015, 60, 739-753.	3.1	9
59	Use of heavy liquid density separation to remove pyrite from sediment samples for radiocarbon dating. <i>Quaternary Geochronology</i> , 2015, 25, 66-71.	1.4	10
60	Historical Contaminant Records from Sclerochronological Archives. <i>Developments in Paleoenvironmental Research</i> , 2015, , 355-391.	8.0	1
61	New evidence of late survival of beaver in Britain. <i>Holocene</i> , 2014, 24, 1849-1855.	1.7	7
62	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, 5480-5484.	7.1	87
63	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.	1.4	14
64	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.	1.4	20
65	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.	2.2	30
66	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.	4.6	113
67	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.	2.6	138
68	Fish otolith geochemistry, environmental conditions and human occupation at Lake Mungo, Australia. <i>Quaternary Science Reviews</i> , 2014, 88, 82-95.	3.0	33
69	Growth and chronology of the rhodolith-forming, coralline red alga <i>Sporolithon durum</i> . <i>Marine Ecology - Progress Series</i> , 2013, 474, 105-119.	1.9	38
70	Anomalous elevated radiocarbon measurements of PM _{2.5} . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 631-635.	1.4	9
71	North Atlantic versus Southern Ocean contributions to a deglacial surge in deep ocean ventilation. <i>Geology</i> , 2013, 41, 667-670.	4.4	64
72	Radiocarbon dates for coastal midden sites at Long Point in the Coorong, South Australia. <i>Australian Archaeology</i> , 2013, 77, 141-147.	0.6	0

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73	New radiocarbon ages for the Lower Murray River, South Australia. <i>Archaeology in Oceania</i> , 2012, 47, 157-160.	0.7	11
74	Robust chronological reconstruction for young speleothems using radiocarbon. <i>Quaternary Geochronology</i> , 2012, 14, 67-80.	1.4	47
75	Uranium-series age estimates for rock art in southwest China. <i>Journal of Archaeological Science</i> , 2012, 39, 492-499.	2.4	37
76	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.	1.8	37
77	Radiocarbon analysis of halophilic microbial lipids from an Australian salt lake. <i>Quaternary Research</i> , 2012, 77, 104-109.	1.7	8
78	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.	1.8	12
79	Subarctic Weathering of Mineral Wastes Provides a Sink for Atmospheric CO ₂ . <i>Environmental Science & Technology</i> , 2011, 45, 7727-7736.	10.0	69
80	Reproducibility of trace element profiles in a specimen of the deep-water bamboo coral <i>Keratois sp.</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5101-5121.	3.9	40
81	Extraordinarily high biomass benthic community on Southern Ocean seamounts. <i>Scientific Reports</i> , 2011, 1, 119.	3.3	25
82	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.	1.9	100
83	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.	0.6	55
84	Resolving the Holocene alluvial record in southeastern Australia using luminescence and radiocarbon techniques. <i>Journal of Quaternary Science</i> , 2010, 25, 1160-1168.	2.1	17
85	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.	1.4	26
86	Assessing the Potential for Radiocarbon Dating the Scales of Australian Lungfish (<i>Neoceratodus</i>). <i>Journal of Herpetology</i> , 2010, 44, 107-114.	1.8	14
87	Pre-Bomb Marine Reservoir Variability in the Kimberley Region, Western Australia. <i>Radiocarbon</i> , 2010, 52, 1158-1165.	1.8	34
88	Ventilation of the Deep Southern Ocean and Deglacial CO ₂ Rise. <i>Science</i> , 2010, 328, 1147-1151.	12.6	420
89	The archaic and puzzling record of Lake Xere Wapo, New Caledonia. , 2010, , .		2
90	Extreme longevity in proteinaceous deep-sea corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5204-5208.	7.1	224

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91	Fixation and fate of C and N in the cyanobacterium <i>Trichodesmium</i> using nanometer-scale secondary ion mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6345-6350.	7.1	156
92	Feasibility of age determination of deep-water bamboo corals (Gorgonacea; Isididae) from annual cycles in skeletal composition. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 442-449.	1.4	24
93	A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte, South Australia. Quaternary Science Reviews, 2009, 28, 2600-2615.	3.0	34
94	Seasonally resolved surface water $\delta^{14}\text{C}$ variability in the Lombok Strait: A coralline perspective. Journal of Geophysical Research, 2009, 114, .	3.3	22
95	Gledswood Shelter 1: Initial Radiocarbon Dates from a Pleistocene Aged Rockshelter Site in Northwest Queensland. Australian Archaeology, 2009, 69, 71-74.	0.6	10
96	Multi-century time-series of ^{15}N and ^{14}C in bamboo corals from deep Tasmanian seamounts: evidence for stable oceanographic conditions. Marine Ecology - Progress Series, 2009, 397, 209-218.	1.9	37
97	Fossil and contemporary fine particulate carbon fractions at 12 rural and urban sites in the United States. Journal of Geophysical Research, 2008, 113, .	3.3	147
98	Element partitioning between magnesium silicate perovskite and ferropericlase: New insights into bulk lower-mantle geochemistry. Earth and Planetary Science Letters, 2008, 269, 164-174.	4.4	111
99	Surface water processes in the Indonesian throughflow as documented by a high-resolution coral $\delta^{14}\text{C}$ record. Journal of Geophysical Research, 2008, 113, .	3.3	44
100	A refractory inclusion returned by Stardust from comet 81P/Wild 2. Meteoritics and Planetary Science, 2008, 43, 1861-1877.	1.6	106
101	Imaging and 3D Elemental Characterization of Intact Bacterial Spores by High-Resolution Secondary Ion Mass Spectrometry. Analytical Chemistry, 2008, 80, 5986-5992.	6.5	82
102	Chemical imaging with NanoSIMS: A window into deep-Earth geochemistry. Earth and Planetary Science Letters, 2007, 262, 543-551.	4.4	26
103	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. Journal of Geophysical Research, 2007, 112, .	3.3	62
104	CAMS/LLNL ion source efficiency revisited. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 106-110.	1.4	31
105	Carbon and nitrogen fixation and metabolite exchange in and between individual cells of <i>Anabaena oscillarioides</i> . ISME Journal, 2007, 1, 354-360.	9.8	148
106	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
107	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. Science, 2006, 314, 1735-1739.	12.6	589
108	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343

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109	Formation of spinel-, hibonite-rich inclusions found in CM2 carbonaceous chondrites. <i>American Mineralogist</i> , 2006, 91, 1675-1687.	1.9	30
110	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.	2.0	12
111	Interpreting environmental signals from the coralline sponge <i>Astrosclera willeyana</i> . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 228, 58-69.	2.3	17
112	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.	4.0	97
113	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.	3.9	170
114	Examining water temperature proxies in <i>Porites</i> corals from the Great Barrier Reef: a cross-shelf comparison. <i>Coral Reefs</i> , 2003, 22, 389-404.	2.2	110
115	Coral record of increased sediment flux to the inner Great Barrier Reef since European settlement. <i>Nature</i> , 2003, 421, 727-730.	27.8	610
116	Carbon isotope constraints on vertical mixing and air-sea CO ₂ exchange. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	32
117	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.	3.9	155
118	Budgeting postglacial sedimentation history on the Santa Cruz, California mid-continental shelf. , 2003, , .		1
119	<i>Porites</i> corals as recorders of mining and environmental impacts: Misima Island, Papua New Guinea. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 45-62.	3.9	188
120	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.	1.4	34
121	Corals at their latitudinal limits: laser ablation trace element systematics in <i>Porites</i> from Shirigai Bay, Japan. <i>Earth and Planetary Science Letters</i> , 1999, 172, 221-238.	4.4	188