

Stewart J Fallon

List of Publications by Year in descending order

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121
papers

7,401
citations

94433

37
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56724

83
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125
all docs

125
docs citations

125
times ranked

8003
citing authors

#	ARTICLE	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
2	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
3	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
4	Ventilation of the Deep Southern Ocean and Deglacial CO ₂ Rise. <i>Science</i> , 2010, 328, 1147-1151.	12.6	420
5	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343
6	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
7	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
8	<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
9	Rapid glaciation and a two-step sea level plunge into the Last Glacial Maximum. <i>Nature</i> , 2018, 559, 603-607.	27.8	172
10	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
11	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, 6345-6350.	7.1	156
12	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
13	Carbon and nitrogen fixation and metabolite exchange in and between individual cells of <i>Anabaena oscillarioides</i> . <i>ISME Journal</i> , 2007, 1, 354-360.	9.8	148
14	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, .	3.3	147
15	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
16	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
17	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.	4.4	111
18	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

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19	A refractory inclusion returned by Stardust from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1861-1877.	1.6	106
20	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
21	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
22	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
23	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
24	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
25	Imaging and 3D Elemental Characterization of Intact Bacterial Spores by High-Resolution Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 5986-5992.	6.5	82
26	Radiocarbon dating. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	79
27	Subarctic Weathering of Mineral Wastes Provides a Sink for Atmospheric CO ₂ . <i>Environmental Science & Technology</i> , 2011, 45, 7727-7736.	10.0	69
28	North Atlantic versus Southern Ocean contributions to a deglacial surge in deep ocean ventilation. <i>Geology</i> , 2013, 41, 667-670.	4.4	64
29	Wintertime stress, nursing, and lead exposure in Neanderthal children. <i>Science Advances</i> , 2018, 4, eaau9483.	10.3	63
30	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, .	3.3	62
31	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
32	Greater soil carbon stocks and faster turnover rates with increasing agricultural productivity. <i>Soil</i> , 2017, 3, 1-16.	4.9	49
33	Phasing of millennial-scale climate variability in the Pacific and Atlantic Oceans. <i>Science</i> , 2020, 370, 716-720.	12.6	49
34	Robust chronological reconstruction for young speleothems using radiocarbon. <i>Quaternary Geochronology</i> , 2012, 14, 67-80.	1.4	47
35	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
36	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, .	3.3	44

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37	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.	4.6	42
38	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.	3.9	40
39	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
40	Uranium-series age estimates for rock art in southwest China. <i>Journal of Archaeological Science</i> , 2012, 39, 492-499.	2.4	37
41	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
42	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.	1.9	37
43	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
44	A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte, South Australia. <i>Quaternary Science Reviews</i> , 2009, 28, 2600-2615.	3.0	34
45	Pre-Bomb Marine Reservoir Variability in the Kimberley Region, Western Australia. <i>Radiocarbon</i> , 2010, 52, 1158-1165.	1.8	34
46	Fish otolith geochemistry, environmental conditions and human occupation at Lake Mungo, Australia. <i>Quaternary Science Reviews</i> , 2014, 88, 82-95.	3.0	33
47	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
48	Magnesite formation in playa environments near Atlin, British Columbia, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 1-24.	3.9	33
49	Carbon isotope constraints on vertical mixing and air-sea CO ₂ exchange. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	32
50	CAMS/LLNL ion source efficiency revisited. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 259, 106-110.	1.4	31
51	Formation of spinel-, hibonite-rich inclusions found in CM2 carbonaceous chondrites. <i>American Mineralogist</i> , 2006, 91, 1675-1687.	1.9	30
52	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
53	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
54	Redefining the inert organic carbon pool. <i>Soil Biology and Biochemistry</i> , 2016, 92, 149-152.	8.8	27

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55	Chemical imaging with NanoSIMS: A window into deep-Earth geochemistry. <i>Earth and Planetary Science Letters</i> , 2007, 262, 543-551.	4.4	26
56	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
57	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
58	Extraordinarily high biomass benthic community on Southern Ocean seamounts. <i>Scientific Reports</i> , 2011, 1, 119.	3.3	25
59	Radiocarbon evidence for mid-late Holocene changes in southwest Pacific Ocean circulation. <i>Paleoceanography</i> , 2016, 31, 971-985.	3.0	25
60	Holocene-Neogene volcanism in northeastern Australia: Chronology and eruption history. <i>Quaternary Geochronology</i> , 2017, 39, 79-91.	1.4	25
61	Feasibility of age determination of deep-water bamboo corals (<i>Gorgonacea</i> ; <i>Isididae</i>) from annual cycles in skeletal composition. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 442-449.	1.4	24
62	Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland. <i>Quaternary Science Reviews</i> , 2019, 218, 322-342.	3.0	23
63	Seasonally resolved surface water δ ¹⁴ C variability in the Lombok Strait: A coralline perspective. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
64	Preservation effects on the isotopic and elemental composition of skeletal structures in the deep-sea bamboo coral <i>Lepidisis</i> spp. (<i>Isididae</i>). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 99, 199-206.	1.4	20
65	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
66	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
67	Interpreting environmental signals from the coralline sponge <i>Astrosclera willeyana</i> . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 228, 58-69.	2.3	17
68	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
69	A "core-top" screen for trace element proxies of environmental conditions and growth rates in the calcite skeletons of bamboo corals (<i>Isididae</i>). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 75-99.	3.9	16
70	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
71	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
72	Assessing the Potential for Radiocarbon Dating the Scales of Australian Lungfish (<i>Neoceratodus</i>)	1.8	14

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73	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
74	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
75	Abrupt late Pleistocene ecological and climate change on Tahiti (French Polynesia). <i>Journal of Biogeography</i> , 2016, 43, 2438-2453.	3.0	13
76	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
77	Evaluating the Radiocarbon Reservoir Effect in Lake Kutubu, Papua New Guinea. <i>Radiocarbon</i> , 2019, 61, 287-308.	1.8	12
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	New radiocarbon ages for the Lower Murray River, South Australia. <i>Archaeology in Oceania</i> , 2012, 47, 157-160.	0.7	11
80	Gledswood Shelter 1: Initial Radiocarbon Dates from a Pleistocene Aged Rockshelter Site in Northwest Queensland. <i>Australian Archaeology</i> , 2009, 69, 71-74.	0.6	10
81	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
82	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
83	Anomalous elevated radiocarbon measurements of PM2.5. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 631-635.	1.4	9
84	Deciphering sedimentary organic matter sources: Insights from radiocarbon measurements and NMR spectroscopy. <i>Limnology and Oceanography</i> , 2015, 60, 739-753.	3.1	9
85	Growth and longevity of New Zealand black corals. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 162, 103298.	1.4	9
86	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
87	Radiocarbon analysis of halophilic microbial lipids from an Australian salt lake. <i>Quaternary Research</i> , 2012, 77, 104-109.	1.7	8
88	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
89	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.	2.1	8
90	Monitoring age-related trends in genomic diversity of Australian lungfish. <i>Molecular Ecology</i> , 2018, 27, 3231-3241.	3.9	8

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91	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
92	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
93	New evidence of late survival of beaver in Britain. <i>Holocene</i> , 2014, 24, 1849-1855.	1.7	7
94	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
95	Updated Methods to Age the Australian Lungfish: Reply to Kemp (2015). <i>Radiocarbon</i> , 2015, 57, 195-196.	1.8	6
96	New ¹⁴ C dates for Spring Creek and Mowbray Swamp megafauna: ² processing. <i>Archaeology in Oceania</i> , 2015, 50, 43-48.	0.7	6
97	Sediment controls dynamic behavior of a Cordilleran Ice Stream at the Last Glacial Maximum. <i>Nature Communications</i> , 2020, 11, 1826.	12.8	6
98	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
99	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
100	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
101	Coral Record of Younger Dryas Chronozone Warmth on the Great Barrier Reef. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003962.	2.9	5
102	Ageing Deep-Sea Black Coral <i>Bathypathes patula</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
103	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
104	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
105	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
106	Age structure of the Australian lungfish (<i>Neoceratodus forsteri</i>). <i>PLoS ONE</i> , 2019, 14, e0210168.	2.5	4
107	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
108	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

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109	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
110	Historical droughts in Southeast Australia recorded in a New South Wales stalagmite. <i>Holocene</i> , 2021, 31, 607-617.	1.7	4
111	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
112	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
113	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
114	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
115	The archaic and puzzling record of Lake Xere Wapo, New Caledonia. , 2010, , .		2
116	Budgeting postglacial sedimentation history on the Santa Cruz, California mid-continental shelf. , 2003, , .		1
117	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
118	Environmental controls on holocene reef development along the eastern brazilian margin. <i>Coral Reefs</i> , 2021, 40, 1321-1337.	2.2	1
119	Historical Contaminant Records from Sclerochronological Archives. <i>Developments in Paleoenvironmental Research</i> , 2015, , 355-391.	8.0	1
120	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
121	Improved C ⁺ 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