

L Keith Fifield

List of Publications by Year in descending order

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108
papers

5,963
citations

71061

41
h-index

76872

74
g-index

114
all docs

114
docs citations

114
times ranked

5978
citing authors

#	ARTICLE	IF	CITATIONS
1	Timing of the Last Glacial Maximum from observed sea-level minima. <i>Nature</i> , 2000, 406, 713-716.	13.7	891
2	Early Human Occupation at Devil's Lair, Southwestern Australia 50,000 Years Ago. <i>Quaternary Research</i> , 2001, 55, 3-13.	1.0	247
3	Millennial and orbital variations of El Niño/Southern Oscillation and high-latitude climate in the last glacial period. <i>Nature</i> , 2004, 428, 306-310.	13.7	210
4	Cl/Br ratios and environmental isotopes as indicators of recharge variability and groundwater flow: An example from the southeast Murray Basin, Australia. <i>Chemical Geology</i> , 2006, 231, 38-56.	1.4	174
5	Tectonic uplift, threshold hillslopes, and denudation rates in a developing mountain range. <i>Geology</i> , 2007, 35, 743.	2.0	174
6	Late Pleistocene Glaciation of the Kosciuszko Massif, Snowy Mountains, Australia. <i>Quaternary Research</i> , 2001, 55, 179-189.	1.0	167
7	Natural and anthropogenic ²³⁶ U in environmental samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2246-2250.	0.6	166
8	Australian desert dune fields initiated with Pliocene–Pleistocene global climatic shift. <i>Geology</i> , 2009, 37, 51-54.	2.0	152
9	Cosmogenic ¹⁰ Be and ²⁶ Al exposure ages of tors and erratics, Cairngorm Mountains, Scotland: Timescales for the development of a classic landscape of selective linear glacial erosion. <i>Geomorphology</i> , 2006, 73, 222-245.	1.1	141
10	Absence of Cooling in New Zealand and the Adjacent Ocean During the Younger Dryas Chronozone. <i>Science</i> , 2007, 318, 86-89.	6.0	139
11	Punctuated eustatic sea-level rise in the early mid-Holocene. <i>Geology</i> , 2010, 38, 803-806.	2.0	139
12	Global cooling initiated stony deserts in central Australia 2–4 Ma, dated by cosmogenic ²¹ Ne- ¹⁰ Be. <i>Geology</i> , 2005, 33, 993.	2.0	137
13	Exposure dating and validation of periglacial weathering limits, northwest Scotland. <i>Geology</i> , 1998, 26, 587.	2.0	119
14	Re-anchoring the late Pleistocene tephrochronology of New Zealand based on concordant radiocarbon ages and combined ²³⁸ U/ ²³⁰ Th disequilibrium and (U–Th)/He zircon ages. <i>Earth and Planetary Science Letters</i> , 2012, 349-350, 240-250.	1.8	108
15	Sediment mixing at Nonda Rock: investigations of stratigraphic integrity at an early archaeological site in northern Australia and implications for the human colonisation of the continent. <i>Journal of Quaternary Science</i> , 2007, 22, 449-479.	1.1	97
16	Late-surviving megafauna in Tasmania, Australia, implicate human involvement in their extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12150-12153.	3.3	97
17	Last Ice Age Millennial Scale Climate Changes Recorded in Huon Peninsula Corals. <i>Radiocarbon</i> , 2000, 42, 383-401.	0.8	89
18	Carbon isotope evidence for changes in Antarctic Intermediate Water circulation and ocean ventilation in the southwest Pacific during the last deglaciation. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	81

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19	Soil production in heath and forest, Blue Mountains, Australia: influence of lithology and palaeoclimate. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 923-934.	1.2	80
20	Quantifying the rate and depth dependence of bioturbation based on optically-stimulated luminescence (OSL) dates and meteoric ^{10}Be . <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1188-1196.	1.2	77
21	Absorption of Aluminium-26 in Alzheimer's Disease, Measured Using Accelerator Mass Spectrometry. <i>Dementia and Geriatric Cognitive Disorders</i> , 2000, 11, 66-69.	0.7	73
22	Constraining groundwater flow, residence times, inter-aquifer mixing, and aquifer properties using environmental isotopes in the southeast Murray Basin, Australia. <i>Applied Geochemistry</i> , 2012, 27, 1698-1709.	1.4	71
23	Cosmogenic Cl-36 dating of postglacial landsliding at The Storr, Isle of Skye, Scotland. <i>Holocene</i> , 1998, 8, 347-351.	0.9	70
24	In situ cosmogenic nuclide production rate calibration for the CRONUS-Earth project from Lake Bonneville, Utah, shoreline features. <i>Quaternary Geochronology</i> , 2015, 26, 56-69.	0.6	70
25	Climatic variability in the southwest Pacific during the Last Termination (20-10kyrBP). <i>Quaternary Science Reviews</i> , 2006, 25, 886-903.	1.4	67
26	Plutonium from Mayak: Measurement of Isotope Ratios and Activities Using Accelerator Mass Spectrometry. <i>Environmental Science & Technology</i> , 2000, 34, 1938-1945.	4.6	61
27	Plutonium from Global Fallout Recorded in an Ice Core from the Belukha Glacier, Siberian Altai. <i>Environmental Science & Technology</i> , 2004, 38, 6507-6512.	4.6	61
28	Exposure-age constraints on the extent, timing and rate of retreat of the last Irish Sea ice stream. <i>Quaternary Science Reviews</i> , 2010, 29, 1844-1852.	1.4	59
29	Physical hydrogeology and environmental isotopes to constrain the age, origins, and stability of a low-salinity groundwater lens formed by periodic river recharge: Murray Basin, Australia. <i>Journal of Hydrology</i> , 2010, 380, 203-221.	2.3	58
30	Holocene lake-level fluctuations in Lakes Keilambete and Gnotuk, southwestern Victoria, Australia. <i>Holocene</i> , 2013, 23, 784-795.	0.9	57
31	The behaviour of the Leeuwin Current offshore NW Australia during the last five glacial-interglacial cycles. <i>Global and Planetary Change</i> , 2011, 75, 119-132.	1.6	56
32	Determination of U-236 in sediment samples by accelerator mass spectrometry. <i>Analyst</i> , 2001, 126, 633-636.	1.7	55
33	Accelerator mass spectrometry measurement of $^{240}\text{Pu}/^{239}\text{Pu}$ isotope ratios in Novaya Zemlya and Kara Sea sediments. <i>Applied Radiation and Isotopes</i> , 2004, 61, 249-253.	0.7	53
34	Bedrock erosion and relief production in the northern Flinders Ranges, Australia. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 929-944.	1.2	53
35	Stranded landscapes in the humid tropics: Earth's oldest land surfaces. <i>Earth and Planetary Science Letters</i> , 2019, 519, 152-164.	1.8	50
36	Phasing of millennial-scale climate variability in the Pacific and Atlantic Oceans. <i>Science</i> , 2020, 370, 716-720.	6.0	49

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37	Dating ancient wood by high-sensitivity liquid scintillation counting and accelerator mass spectrometry—Pushing the boundaries. <i>Quaternary Geochronology</i> , 2006, 1, 241-248.	0.6	46
38	Yangtze River sediments and erosion rates from source to sink traced with cosmogenic ¹⁰ Be: Sediments from major rivers. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 241, 79-94.	1.0	46
39	Correspondence between glass-FT and ¹⁴ C ages of silicic pyroclastic flow deposits sourced from Maninjau caldera, west-central Sumatra. <i>Earth and Planetary Science Letters</i> , 2004, 227, 121-133.	1.8	45
40	Transport of low ²⁴⁰ Pu/ ²³⁹ Pu atom ratio plutonium-species in the Ob and Yenisey Rivers to the Kara Sea. <i>Earth and Planetary Science Letters</i> , 2006, 251, 33-43.	1.8	44
41	The potential of New Zealand kauri (<i>Agathis australis</i>) for testing the synchronicity of abrupt climate change during the Last Glacial Interval (60,000±11,700 years ago). <i>Quaternary Science Reviews</i> , 2010, 29, 3677-3682.	1.4	44
42	Silicon-32 as a tool for dating the recent past. <i>Quaternary Geochronology</i> , 2009, 4, 400-405.	0.6	42
43	Extension of New Zealand kauri (<i>Agathis australis</i>) tree-ring chronologies into Oxygen Isotope Stage (OIS) 3. <i>Journal of Quaternary Science</i> , 2006, 21, 779-787.	1.1	41
44	Glaciation and deglaciation of the SW Lake District, England: implications of cosmogenic ³⁶ Cl exposure dating. <i>Proceedings of the Geologists Association</i> , 2009, 120, 139-144.	0.6	41
45	Eroding Australia: rates and processes from Bega Valley to Arnhem Land. <i>Geological Society Special Publication</i> , 2010, 346, 225-241.	0.8	41
46	Uranium from German Nuclear Power Projects of the 1940s—A Nuclear Forensic Investigation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13452-13456.	7.2	41
47	Landscape responses to intraplate tectonism: Quantitative constraints from ¹⁰ Be nuclide abundances. <i>Earth and Planetary Science Letters</i> , 2007, 261, 120-133.	1.8	37
48	Concentration and characterization of plutonium in soils of Hubei in central China. <i>Journal of Environmental Radioactivity</i> , 2010, 101, 29-32.	0.9	37
49	Late Pleistocene glacial stratigraphy of the Kumara-Moana region, West Coast of South Island, New Zealand. <i>Quaternary Science Reviews</i> , 2013, 74, 139-159.	1.4	36
50	Late Pleistocene glaciation of the Mt Giluwe volcano, Papua New Guinea. <i>Quaternary Science Reviews</i> , 2011, 30, 2676-2689.	1.4	34
51	Erosion rates and weathering history of rock surfaces associated with Aboriginal rock art engravings (petroglyphs) on Burrup Peninsula, Western Australia, from cosmogenic nuclide measurements. <i>Quaternary Science Reviews</i> , 2013, 69, 98-106.	1.4	33
52	Uplift rates defined by U-series and ¹⁴ C ages of serpulid-encrusted speleothems from submerged caves near Siracusa, Sicily (Italy). <i>Quaternary Geochronology</i> , 2009, 4, 2-10.	0.6	32
53	Plutonium isotope measurements from across continental Australia. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 636-641.	0.6	32
54	Long-range tropospheric transport of uranium and plutonium weapons fallout from Semipalatinsk nuclear test site to Norway. <i>Environment International</i> , 2013, 59, 92-102.	4.8	30

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55	Towards a Radiocarbon Calibration for Oxygen Isotope Stage 3 Using New Zealand Kauri (Agathis) Tj ETQq1 1 0.784314 rgBT _{0.8} /Overlook	0.8	29
56	Association of plutonium with sediments from the Ob and Yenisey Rivers and Estuaries. Journal of Environmental Radioactivity, 2009, 100, 290-300.	0.9	29
57	Patterns of denudation through time in the San Bernardino Mountains, California: Implications for early-stage orogenesis. Earth and Planetary Science Letters, 2008, 276, 62-72.	1.8	28
58	Measurement of ²³⁷ Np in environmental water samples by accelerator mass spectrometry. Analyst, The, 2001, 126, 58-61.	1.7	27
59	Coral reef sedimentation on Rodrigues and the Western Indian Ocean and its impact on the carbon cycle. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 101-120.	1.6	27
60	Using ³ H and ¹⁴ C to constrain the degree of closed-system dissolution of calcite in groundwater. Applied Geochemistry, 2013, 32, 118-128.	1.4	25
61	Links on Supernova-associated $\text{Fe} > 60$		
62	Ancient groundwaters in the Amadeus Basin, Central Australia: evidence from the radio-isotope ³⁶ Cl. Journal of Hydrology, 1999, 223, 212-220.	2.3	23
63	Co-precipitated silver-metal oxide aggregates for accelerator mass spectrometry of ¹⁰ Be and ²⁶ Al. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 272-277.	0.6	23
64	Robust Radiocarbon Dating of Wood Samples by High-Sensitivity Liquid Scintillation Spectroscopy in the 50-70 kyr Age Range. Radiocarbon, 2007, 49, 379-391.	0.8	23
65	The ²⁴⁰ Pu/ ²³⁹ Pu atom ratio in Chinese soils. Science of the Total Environment, 2019, 678, 603-610.	3.9	23
66	Cosmogenic nuclide ages for Last Glacial Maximum moraine at Schnells Ridge, Southwest Tasmania. Quaternary Research, 2004, 61, 335-338.	1.0	22
67	Holocene evolution of the granite based Lizard Island and MacGillivray Reef systems, Northern Great Barrier Reef. Coral Reefs, 2006, 25, 555-565.	0.9	22
68	Assessment of recharge to groundwater systems in the arid southwestern part of Northern Territory, Australia, using chlorine-36. Hydrogeology Journal, 1999, 7, 393-404.	0.9	21
69	Tectonic and climatic controls of denudation rates in active orogens: The San Bernardino Mountains, California. Geomorphology, 2010, 118, 249-261.	1.1	21
70	Continuous transport of Pacific-derived anthropogenic radionuclides towards the Indian Ocean. Scientific Reports, 2017, 7, 44679.	1.6	21
71	New frontiers in glacier ice dating: Measurement of natural ³² Si by AMS. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 605-609.	0.6	20
72	Escarpment erosion and landscape evolution in southeastern Australia. , 2006, , .		20

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73	Age constraints on Pleistocene megafauna at Tight Entrance Cave in southwestern Australia. <i>Quaternary Science Reviews</i> , 2008, 27, 1784-1788.	1.4	20
74	Transport and accumulation of actinide elements in the near-shore environment: field and modelling studies. <i>Sedimentology</i> , 2006, 53, 237-248.	1.6	19
75	The release and persistence of radioactive anthropogenic nuclides. <i>Geological Society Special Publication</i> , 2014, 395, 265-281.	0.8	19
76	Seasonal Variations in Interstitial Water Transuranium Element Concentrations. <i>Environmental Science & Technology</i> , 2000, 34, 4273-4277.	4.6	18
77	Geochemical changes recorded in Lynch's Crater, Northeastern Australia, over the past 50 ka. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 233, 187-203.	1.0	18
78	Geomorphic and cosmogenic nuclide constraints on escarpment evolution in an intraplate setting, Darling Escarpment, Western Australia. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 449-459.	1.2	18
79	Comparative optical and radiocarbon dating of laminated Holocene sediments in two maar lakes: Lake Keilambete and Lake Gnotuk, south-western Victoria, Australia. <i>Quaternary Geochronology</i> , 2012, 9, 3-15.	0.6	17
80	Plutonium measurement using accelerator mass spectrometry: Methodology and applications. <i>Radioactivity in the Environment</i> , 2001, 1, 47-62.	0.2	15
81	Along-strike variation in catchment morphology and cosmogenic denudation rates reveal the pattern and history of footwall uplift, Main Gulf Escarpment, Baja California. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 837-854.	1.6	15
82	In-situ production of natural ^{236}U in groundwaters and ores in high-grade uranium deposits. <i>Chemical Geology</i> , 2015, 410, 213-222.	1.4	14
83	Tracking the ^{10}Be / ^{26}Al source-area signal in sediment-routing systems of arid central Australia. <i>Earth Surface Dynamics</i> , 2018, 6, 329-349.	1.0	14
84	New and upgraded ionization chambers for AMS at the Australian National University. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 438, 141-147.	0.6	14
85	^{10}Be -derived denudation rates from the Burdekin catchment: The largest contributor of sediment to the Great Barrier Reef. <i>Geomorphology</i> , 2015, 241, 122-134.	1.1	13
86	Decoupling of solutes and water in regional groundwater systems: The Murray Basin, Australia. <i>Chemical Geology</i> , 2017, 466, 466-478.	1.4	13
87	Background reduction in $^{236}\text{U}/^{238}\text{U}$ measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 454-457.	0.6	11
88	CRONUS-Earth calibration samples from the Huancan II moraines, Quelccaya Ice Cap, Peru. <i>Quaternary Geochronology</i> , 2016, 31, 220-236.	0.6	11
89	Deposition of artificial radionuclides in sediments of Loch Etive, Scotland. <i>Journal of Environmental Radioactivity</i> , 2018, 187, 45-52.	0.9	11
90	Progress in AMS measurement of natural ^{32}Si for glacier ice dating. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 739-743.	0.6	10

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91	High $^{36}\text{Cl}/\text{Cl}$ ratios in Chernobyl groundwater. <i>Journal of Environmental Radioactivity</i> , 2014, 138, 19-32.	0.9	10
92	Accelerator mass spectrometry measurement of the reaction $\text{Cl}^{35}(\text{n}, \text{p})\text{Cl}^{36}$ at keV energies. <i>Physical Review C</i> , 2019, 99, .	1.1	10
93	Exposure dating (^{10}Be , ^{26}Al) of natural terrain landslides in Hong Kong, China. , 2006, , .		8
94	Origin of artificial radionuclides in soil and sediment from North Wales. <i>Journal of Environmental Radioactivity</i> , 2016, 151, 244-249.	0.9	8
95	Differences in groundwater and chloride residence times in saline groundwater: The Barwon River Catchment of Southeast Australia. <i>Chemical Geology</i> , 2017, 451, 154-168.	1.4	8
96	Pre-development denudation rates for the Great Barrier Reef catchments derived using ^{10}Be . <i>Marine Pollution Bulletin</i> , 2021, 172, 112731.	2.3	6
97	Plutonium isotopes in the North Western Pacific sediments coupled with radiocarbon in corals recording precise timing of the Anthropocene. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
98	New ^{14}C Ages on Cellulose from Diprotodon Gut Contents: Explorations in Oxidation Chemistry and Combustion. <i>Radiocarbon</i> , 2008, 50, 75-81.	0.8	5
99	Measurements of low-level anthropogenic radionuclides from soils around Maralinga. <i>EPJ Web of Conferences</i> , 2013, 63, 03010.	0.1	3
100	Reply to Watchman, Tasson and Aubert. <i>Quaternary Science Reviews</i> , 2014, 91, 73-75.	1.4	3
101	The age of Wolfe Creek meteorite crater (<i>Kandimalal</i>), Western Australia. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2686-2697.	0.7	3
102	Development of ^{231}Pa AMS measurements to improve radiological dose assessment from uranium mining and milling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 438, 66-69.	0.6	3
103	^{129}I in rainwater across Argentina. <i>Journal of Environmental Radioactivity</i> , 2022, 248, 106871.	0.9	2
104	Timing and dynamics of Late Wolstonian Substage \sim Moreton Stadial TM (MIS 6) glaciation in the English West Midlands, UK. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	2
105	Geochemistry of artificial actinide isotopes in west Cumbrian sediments. <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 939-942.	0.7	1
106	The Link Between the Local Bubble and Radioisotopic Signatures on Earth. , 2017, , .		1
107	Determination of total I and ^{129}I concentrations in freshwater of Argentina. <i>EPJ Web of Conferences</i> , 2013, 63, 03007.	0.1	0
108	Production of ^{21}Ne in depth-profiled olivine from a 54 Ma basalt sequence, Eastern Highlands (37°S), Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 276-290.	1.6	0