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	129I in rainwater across Argentina. Journal of Environmental Radioactivity, 2022, 248, 106871.	0.9	2
2	Timing and dynamics of Late Wolstonian Substage â€˜Moreton Stadialâ€™ (MIS 6) glaciation in the English West Midlands, UK. Royal Society Open Science, 2022, 9, .	1.1	2
3	Plutonium isotopes in the North Western Pacific sediments coupled with radiocarbon in corals recording precise timing of the Anthropocene. Scientific Reports, 2022, 12, .	1.6	6
4	Pre-development denudation rates for the Great Barrier Reef catchments derived using 10Be. Marine Pollution Bulletin, 2021, 172, 112731.	2.3	6
5	Phasing of millennial-scale climate variability in the Pacific and Atlantic Oceans. Science, 2020, 370, 716-720.	6.0	49
6	New and upgraded ionization chambers for AMS at the Australian National University. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 141-147.	0.6	14
7	The age of Wolfe Creek meteorite crater (Kandimalal), Western Australia. Meteoritics and Planetary Science, 2019, 54, 2686-2697.	0.7	3
8	Accelerator mass spectrometry measurement of the reaction Cl35(n,Î³)Cl36 at keV energies. Physical Review C, 2019, 99, .	1.1	10
9	Stranded landscapes in the humid tropics: Earth's oldest land surfaces. Earth and Planetary Science Letters, 2019, 519, 152-164.	1.8	50
10	The 240Pu/239Pu atom ratio in Chinese soils. Science of the Total Environment, 2019, 678, 603-610.	3.9	23
11	Development of 231Pa AMS measurements to improve radiological dose assessment from uranium mining and milling. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 66-69.	0.6	3
12	Deposition of artificial radionuclides in sediments of Loch Etive, Scotland. Journal of Environmental Radioactivity, 2018, 187, 45-52.	0.9	11
13	Production of 21Ne in depth-profiled olivine from a 54 Ma basalt sequence, Eastern Highlands (37Â° S), Australia. Geochimica Et Cosmochimica Acta, 2018, 220, 276-290.	1.6	0
14	Tracking the ¹⁰Beâ€“²⁶Al source-area signal in sediment-routing systems of arid central Australia. Earth Surface Dynamics, 2018, 6, 329-349.	1.0	14
15	Accelerator Mass Spectrometry Associated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo>/</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>26</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>	2.0	25
16	Along-strike variation in catchment morphology and cosmogenic denudation rates reveal the pattern and history of footwall uplift, Main Gulf Escarpment, Baja California. Bulletin of the Geological Society of America, 2017, 129, 837-854.	1.6	15
17	Differences in groundwater and chloride residence times in saline groundwater: The Barwon River Catchment of Southeast Australia. Chemical Geology, 2017, 451, 154-168.	1.4	8
18	Continuous transport of Pacific-derived anthropogenic radionuclides towards the Indian Ocean. Scientific Reports, 2017, 7, 44679.	1.6	21

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19	Decoupling of solutes and water in regional groundwater systems: The Murray Basin, Australia. Chemical Geology, 2017, 466, 466-478.	1.4	13
20	The Link Between the Local Bubble and Radioisotopic Signatures on Earth. , 2017, , .		1
21	CRONUS-Earth calibration samples from the HuancanÃ© II moraines, Quelccaya Ice Cap, Peru. Quaternary Geochronology, 2016, 31, 220-236.	0.6	11
22	Origin of artificial radionuclides in soil and sediment from North Wales. Journal of Environmental Radioactivity, 2016, 151, 244-249.	0.9	8
23	In-situ production of natural 236U in groundwaters and ores in high-grade uranium deposits. Chemical Geology, 2015, 410, 213-222.	1.4	14
24	In situ cosmogenic nuclide production rate calibration for the CRONUS-Earth project from Lake Bonneville, Utah, shoreline features. Quaternary Geochronology, 2015, 26, 56-69.	0.6	70
25	Background reduction in 236U/238U measurements. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 454-457.	0.6	11
26	Uranium from German Nuclear Power Projects of the 1940sâ€" A Nuclear Forensic Investigation. Angewandte Chemie - International Edition, 2015, 54, 13452-13456.	7.2	41
27	10Be-derived denudation rates from the Burdekin catchment: The largest contributor of sediment to the Great Barrier Reef. Geomorphology, 2015, 241, 122-134.	1.1	13
28	Quantifying the rate and depth dependence of bioturbation based on opticallyâ€stimulated luminescence (OSL) dates and meteoric ¹⁰Be. Earth Surface Processes and Landforms, 2014, 39, 1188-1196.	1.2	77
29	The release and persistence of radioactive anthropogenic nuclides. Geological Society Special Publication, 2014, 395, 265-281.	0.8	19
30	High 36Cl/Cl ratios in Chernobyl groundwater. Journal of Environmental Radioactivity, 2014, 138, 19-32.	0.9	10
31	Reply to Watchman, TaÃ§on and Aubert. Quaternary Science Reviews, 2014, 91, 73-75.	1.4	3
32	Long-range tropospheric transport of uranium and plutonium weapons fallout from Semipalatinsk nuclear test site to Norway. Environment International, 2013, 59, 92-102.	4.8	30
33	Erosion rates and weathering history of rock surfaces associated with Aboriginal rock art engravings (petroglyphs) on Burrup Peninsula, Western Australia, from cosmogenic nuclide measurements. Quaternary Science Reviews, 2013, 69, 98-106.	1.4	33
34	Using 3H and 14C to constrain the degree of closed-system dissolution of calcite in groundwater. Applied Geochemistry, 2013, 32, 118-128.	1.4	25
35	Late Pleistocene glacial stratigraphy of the Kumara-Moana region, West Coast of South Island, New Zealand. Quaternary Science Reviews, 2013, 74, 139-159.	1.4	36
36	Plutonium isotope measurements from across continental Australia. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 636-641.	0.6	32

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37	Holocene lake-level fluctuations in Lakes Keilambete and Gnotuk, southwestern Victoria, Australia. Holocene, 2013, 23, 784-795.	0.9	57
38	Measurements of low-level anthropogenic radionuclides from soils around Maralinga. EPJ Web of Conferences, 2013, 63, 03010.	0.1	3
39	Determination of total I and129I concentrations in freshwater of Argentina. EPJ Web of Conferences, 2013, 63, 03007.	0.1	0
40	Comparative optical and radiocarbon dating of laminated Holocene sediments in two maar lakes: Lake Keilambete and Lake Gnotuk, south-western Victoria, Australia. Quaternary Geochronology, 2012, 9, 3-15.	0.6	17
41	Re-anchoring the late Pleistocene tephrochronology of New Zealand based on concordant radiocarbon ages and combined 238U/230Th disequilibrium and (Uâ€“Th)/He zircon ages. Earth and Planetary Science Letters, 2012, 349-350, 240-250.	1.8	108
42	Constraining groundwater flow, residence times, inter-aquifer mixing, and aquifer properties using environmental isotopes in the southeast Murray Basin, Australia. Applied Geochemistry, 2012, 27, 1698-1709.	1.4	71
43	The behaviour of the Leeuwin Current offshore NW Australia during the last five glacialâ€“interglacial cycles. Global and Planetary Change, 2011, 75, 119-132.	1.6	56
44	Late Pleistocene glaciation of the Mt Giluwe volcano, Papua New Guinea. Quaternary Science Reviews, 2011, 30, 2676-2689.	1.4	34
45	Geomorphic and cosmogenic nuclide constraints on escarpment evolution in an intraplate setting, Darling Escarpment, Western Australia. Earth Surface Processes and Landforms, 2011, 36, 449-459.	1.2	18
46	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. Journal of Hydrology, 2010, 380, 203-221.	2.3	58
47	Concentration and characterization of plutonium in soils of Hubei in central China. Journal of Environmental Radioactivity, 2010, 101, 29-32.	0.9	37
48	Progress in AMS measurement of natural 32Si for glacier ice dating. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 739-743.	0.6	10
49	Punctuated eustatic sea-level rise in the early mid-Holocene. Geology, 2010, 38, 803-806.	2.0	139
50	Eroding Australia: rates and processes from Bega Valley to Arnhem Land. Geological Society Special Publication, 2010, 346, 225-241.	0.8	41
51	Tectonic and climatic controls of denudation rates in active orogens: The San Bernardino Mountains, California. Geomorphology, 2010, 118, 249-261.	1.1	21
52	Exposure-age constraints on the extent, timing and rate of retreat of the last Irish Sea ice stream. Quaternary Science Reviews, 2010, 29, 1844-1852.	1.4	59
53	The potential of New Zealand kauri (Agathis australis) for testing the synchronicity of abrupt climate change during the Last Glacial Interval (60,000â€“11,700 years ago). Quaternary Science Reviews, 2010, 29, 3677-3682.	1.4	44
54	Australian desert dune fields initiated with Plioceneâ€“Pleistocene global climatic shift. Geology, 2009, 37, 51-54.	2.0	152

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55	Glaciation and deglaciation of the SW Lake District, England: implications of cosmogenic 36Cl exposure dating. Proceedings of the Geologists Association, 2009, 120, 139-144.	0.6	41
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	Uplift rates defined by U-series and 14C ages of serpulid-encrusted speleothems from submerged caves near Siracusa, Sicily (Italy). Quaternary Geochronology, 2009, 4, 2-10.	0.6	32
58	Silicon-32 as a tool for dating the recent past. Quaternary Geochronology, 2009, 4, 400-405.	0.6	42
59	Natural and anthropogenic 236U in environmental samples. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2246-2250.	0.6	166
60	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
61	Age constraints on Pleistocene megafauna at Tight Entrance Cave in southwestern Australia. Quaternary Science Reviews, 2008, 27, 1784-1788.	1.4	20
62	Late-surviving megafauna in Tasmania, Australia, implicate human involvement in their extinction. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12150-12153.	3.3	97
63	New 14C Ages on Cellulose from Diprotodon Gut Contents: Explorations in Oxidation Chemistry and Combustion. Radiocarbon, 2008, 50, 75-81.	0.8	5
64	Tectonic uplift, threshold hillslopes, and denudation rates in a developing mountain range. Geology, 2007, 35, 743.	2.0	174
65	Robust Radiocarbon Dating of Wood Samples by High-Sensitivity Liquid Scintillation Spectroscopy in the 50â€“70 kyr Age Range. Radiocarbon, 2007, 49, 379-391.	0.8	23
66	Towards a Radiocarbon Calibration for Oxygen Isotope Stage 3 Using New Zealand Kauri (Agathis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	29
67	Landscape responses to intraplate tectonism: Quantitative constraints from 10Be nuclide abundances. Earth and Planetary Science Letters, 2007, 261, 120-133.	1.8	37
68	Absence of Cooling in New Zealand and the Adjacent Ocean During the Younger Dryas Chronozone. Science, 2007, 318, 86-89.	6.0	139
69	Bedrock erosion and relief production in the northern Flinders Ranges, Australia. Earth Surface Processes and Landforms, 2007, 32, 929-944.	1.2	53
70	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. Journal of Quaternary Science, 2007, 22, 449-479.	1.1	97
71	Dating ancient wood by high-sensitivity liquid scintillation counting and accelerator mass spectrometryâ€”Pushing the boundaries. Quaternary Geochronology, 2006, 1, 241-248.	0.6	46
72	Transport of low 240Pu/239Pu atom ratio plutonium-species in the Ob and Yenisey Rivers to the Kara Sea. Earth and Planetary Science Letters, 2006, 251, 33-43.	1.8	44

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73	Cl/Br ratios and environmental isotopes as indicators of recharge variability and groundwater flow: An example from the southeast Murray Basin, Australia. Chemical Geology, 2006, 231, 38-56.	1.4	174
74	Cosmogenic 10Be and 26Al exposure ages of tors and erratics, Cairngorm Mountains, Scotland: Timescales for the development of a classic landscape of selective linear glacial erosion. Geomorphology, 2006, 73, 222-245.	1.1	141
75	Climatic variability in the southwest Pacific during the Last Termination (20â€“10kyrBP). Quaternary Science Reviews, 2006, 25, 886-903.	1.4	67
76	Geochemical changes recorded in Lynch's Crater, Northeastern Australia, over the past 50 ka. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 233, 187-203.	1.0	18
77	Yangtse River sediments and erosion rates from source to sink traced with cosmogenic 10Be: Sediments from major rivers. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 241, 79-94.	1.0	46
78	Transport and accumulation of actinide elements in the near-shore environment: field and modelling studies. Sedimentology, 2006, 53, 237-248.	1.6	19
79	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
80	Extension of New Zealand kauri (Agathis australis) tree-ring chronologies into Oxygen Isotope Stage (OIS) 3. Journal of Quaternary Science, 2006, 21, 779-787.	1.1	41
81	Escarpment erosion and landscape evolution in southeastern Australia. , 2006, , .		20
82	Exposure dating (¹⁰Be, ²⁶Al) of natural terrain landslides in Hong Kong, China. , 2006, , .		8
83	Soil production in heath and forest, Blue Mountains, Australia: influence of lithology and palaeoclimate. Earth Surface Processes and Landforms, 2005, 30, 923-934.	1.2	80
84	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
85	Global cooling initiated stony deserts in central Australia 2â€“4 Ma, dated by cosmogenic 21Ne-10Be. Geology, 2005, 33, 993.	2.0	137
86	Millennial and orbital variations of El NiÃ±o/Southern Oscillation and high-latitude climate in the last glacial period. Nature, 2004, 428, 306-310.	13.7	210
87	Co-precipitated silverâ€“metal oxide aggregates for accelerator mass spectrometry of 10Be and 26Al. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 272-277.	0.6	23
88	Cosmogenic nuclide ages for Last Glacial Maximum moraine at Schnells Ridge, Southwest Tasmania. Quaternary Research, 2004, 61, 335-338.	1.0	22
89	Accelerator mass spectrometry measurement of 240Pu/239Pu isotope ratios in Novaya Zemlya and Kara Sea sediments. Applied Radiation and Isotopes, 2004, 61, 249-253.	0.7	53
90	Carbon isotope evidence for changes in Antarctic Intermediate Water circulation and ocean ventilation in the southwest Pacific during the last deglaciation. Paleoceanography, 2004, 19, n/a-n/a.	3.0	81

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91	Plutonium from Global Fallout Recorded in an Ice Core from the Belukha Glacier, Siberian Altai. Environmental Science & Technology, 2004, 38, 6507-6512.	4.6	61
92	Correspondence between glass-FT and 14C ages of silicic pyroclastic flow deposits sourced from Maninjau caldera, west-central Sumatra. Earth and Planetary Science Letters, 2004, 227, 121-133.	1.8	45
93	Geochemistry of artificial actinide isotopes in west Cumbrian sediments. Journal of Nuclear Science and Technology, 2002, 39, 939-942.	0.7	1
94	Determination of U-236 in sediment samples by accelerator mass spectrometry. Analyst, The, 2001, 126, 633-636.	1.7	55
95	Measurement of 237Np in environmental water samples by accelerator mass spectrometry. Analyst, The, 2001, 126, 58-61.	1.7	27
96	Early Human Occupation at Devil's Lair, Southwestern Australia 50,000 Years Ago. Quaternary Research, 2001, 55, 3-13.	1.0	247
97	Late Pleistocene Glaciation of the Kosciuszko Massif, Snowy Mountains, Australia. Quaternary Research, 2001, 55, 179-189.	1.0	167
98	Plutonium measurement using accelerator mass spectrometry: Methodology and applications. Radioactivity in the Environment, 2001, 1, 47-62.	0.2	15
99	Timing of the Last Glacial Maximum from observed sea-level minima. Nature, 2000, 406, 713-716.	13.7	891
100	New frontiers in glacier ice dating: Measurement of natural 32Si by AMS. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 605-609.	0.6	20
101	Last Ice Age Millennial Scale Climate Changes Recorded in Huon Peninsula Corals. Radiocarbon, 2000, 42, 383-401.	0.8	89
102	Absorption of Aluminium-26 in Alzheimerâ€™s Disease, Measured Using Accelerator Mass Spectrometry. Dementia and Geriatric Cognitive Disorders, 2000, 11, 66-69.	0.7	73
103	Plutonium from Mayak:Â Measurement of Isotope Ratios and Activities Using Accelerator Mass Spectrometry. Environmental Science & Technology, 2000, 34, 1938-1945.	4.6	61
104	Seasonal Variations in Interstitial Water Transuranium Element Concentrations. Environmental Science & Technology, 2000, 34, 4273-4277.	4.6	18
105	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
106	Ancient groundwaters in the Amadeus Basin, Central Australia: evidence from the radio-isotope 36Cl. Journal of Hydrology, 1999, 223, 212-220.	2.3	23
107	Cosmogenic Cl-36 dating of postglacial landsliding at The Storr, Isle of Skye, Scotland. Holocene, 1998, 8, 347-351.	0.9	70
108	Exposure dating and validation of periglacial weathering limits, northwest Scotland. Geology, 1998, 26, 587.	2.0	119