Frank McDermott

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Climate change impacts on wind energy generation in Ireland. Wind Energy, 2022, 25, 300-312.	4.2	11
2	Uranium in groundwaters: Insights from the Leinster granite, SE Ireland. Applied Geochemistry, 2022, 139, 105236.	3.0	10
3	Utilising CoDA methods for the spatio-temporal geochemical characterisation of groundwater; a case study from Lisheen Mine, south central Ireland. Applied Geochemistry, 2021, 127, 104912.	3.0	7
4	As–Co–Ni sulfarsenides in Palaeogene basaltic cone sheets as sources of groundwater arsenic contamination in co. Louth, Ireland. Applied Geochemistry, 2021, 127, 104914.	3.0	3
5	Which Reanalysis Dataset Should We Use for Renewable Energy Analysis in Ireland?. Atmosphere, 2021, 12, 624.	2.3	18
6	Strong links between Saharan dust fluxes, monsoon strength, and North Atlantic climate during the last 5000 years. Science Advances, 2021, 7, .	10.3	15
7	Quaternary deformation and uplift of coral reef terraces produced by oblique subduction and underthrusting of the Bahama Platform below the northern Hispaniola forearc. Tectonophysics, 2020, 796, 228631.	2.2	7
8	Inter-hemispheric synchroneity of Holocene precipitation anomalies controlled by Earth's latitudinal insolation gradients. Nature Communications, 2020, 11, 5447.	12.8	22
9	Dating the skull from Broken Hill, Zambia, and its position in human evolution. Nature, 2020, 580, 372-375.	27.8	63
10	Engineered silver nanoparticle (Ag-NP) behaviour in domestic on-site wastewater treatment plants and in sewage sludge amended-soils. Science of the Total Environment, 2020, 722, 137794.	8.0	17
11	Water quality perceptions and private well management: The role of perceived risks, worry and control. Journal of Environmental Management, 2020, 267, 110654.	7.8	17
12	An investigation of the regional correlation gradients between Euroâ€Atlantic atmospheric teleconnections and winter solar short wave radiation in northwest Europe. Meteorological Applications, 2020, 27, e1892.	2.1	4
13	Ancient Mammalian and Plant DNA from Late Quaternary Stalagmite Layers at Solkota Cave, Georgia. Scientific Reports, 2019, 9, 6628.	3.3	31
14	Risk Perceptions Toward Drinking Water Quality Among Private Well Owners in Ireland: The Illusion of Control. Risk Analysis, 2019, 39, 1741-1754.	2.7	19
15	North Iberian temperature and rainfall seasonality over the Younger Dryas and Holocene. Quaternary Science Reviews, 2019, 226, 105998.	3.0	34
16	Release of plant-available silicon from various silicon-rich amendments into soil solutions and leachates. Journal of Soils and Sediments, 2019, 19, 1272-1285.	3.0	7
17	Effects of silicon-rich soil amendments on growth, mortality and bark feeding damage of Sitka spruce (<i>Picea sitchensis</i>) seedlings under field conditions. Scandinavian Journal of Forest Research, 2018, 33, 550-559.	1.4	2
18	Silicon concentrations in soil and bark in Irish Sitka spruce forests. Journal of Plant Nutrition and Soil Science, 2018, 181, 231-239.	1.9	3

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19	A weather regime characterisation of Irish wind generation and electricity demand in winters 2009–11. Environmental Research Letters, 2018, 13, 054022.	5.2	6
20	The SISAL database: a global resource to document oxygen and carbon isotope records from speleothems. Earth System Science Data, 2018, 10, 1687-1713.	9.9	62
21	A 34-year simulation of wind generation potential for Ireland and the impact of large-scale atmospheric pressure patterns. Renewable Energy, 2017, 106, 165-176.	8.9	25
22	Spatial variability in winter NAO–wind speed relationships in western Europe linked to concomitant states of the East Atlantic and Scandinavian patterns. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 552-562.	2.7	58
23	Electrification of residential space heating considering coincidental weather events and building thermal inertia: A system-wide planning analysis. Energy, 2017, 127, 136-154.	8.8	43
24	Coherency of late Holocene European speleothem δ180 records linked to North Atlantic Ocean circulation. Climate Dynamics, 2017, 49, 595-618.	3.8	39
25	Molecular biosignatures reveal common benthic microbial sources of organic matter in ooids and grapestones from Pigeon Cay, The Bahamas. Geobiology, 2017, 15, 112-130.	2.4	58
26	North Atlantic Oscillation controls on oxygen and hydrogen isotope gradients in winter precipitation across Europe; implications for palaeoclimate studies. Climate of the Past, 2016, 12, 2127-2143.	3.4	21
27	Episodic speleothem deposition tracks the terrestrial impact of millennial-scale last glacial climate variability in SW Ireland. Quaternary Science Reviews, 2016, 152, 104-117.	3.0	22
28	The effect of the East Atlantic pattern on the precipitation δ18O-NAO relationship in Europe. Climate Dynamics, 2016, 47, 2059-2069.	3.8	42
29	Data-model comparison of soil–water Î′ 18 O at a temperate site in N. Spain with implications for interpreting speleothem Î′ 18 O. Journal of Hydrology, 2015, 530, 216-224.	5.4	18
30	Regional temperature, atmospheric circulation, and sea-ice variability within the Younger Dryas Event constrained using a speleothem from northern Iberia. Earth and Planetary Science Letters, 2015, 419, 101-110.	4.4	75
31	Reconstructing high-resolution climate using CT scanning of unsectioned stalagmites: A case study identifying the mid-Holocene onset of the Mediterranean climate in southern Iberia. Quaternary Science Reviews, 2015, 127, 117-128.	3.0	41
32	Potential seasonal calibration for palaeoenvironmental reconstruction using skeletal microstructures and strontium measurements from the coldâ€water coral <i>Lophelia pertusa</i> . Journal of Quaternary Science, 2014, 29, 803-814.	2.1	8
33	Impacts of the EA and SCA patterns on the European twentieth century NAO–winter climate relationship. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 354-363.	2.7	145
34	Inverse modelling of the 14C bomb pulse in stalagmites to constrain the dynamics of soil carbon cycling at selected European cave sites. Geochimica Et Cosmochimica Acta, 2013, 112, 32-51.	3.9	20
35	Centennial-scale climate change in Ireland during the Holocene. Earth-Science Reviews, 2013, 126, 300-320.	9.1	79
36	Identifying short-term and seasonal trends in cave drip water trace element concentrations based on a daily-scale automatically collected drip water dataset. Chemical Geology, 2012, 330-331, 1-16.	3.3	27

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37	A late Holocene climate record in stalagmites from ModriĕCave (Croatia). Journal of Quaternary Science, 2012, 27, 585-596.	2.1	28
38	The coupled δ13C-radiocarbon systematics of three Late Glacial/early Holocene speleothems; insights into soil and cave processes at climatic transitions. Geochimica Et Cosmochimica Acta, 2011, 75, 4321-4339.	3.9	66
39	A first evaluation of the spatial gradients in δ180 recorded by European Holocene speleothems. Global and Planetary Change, 2011, 79, 275-287.	3.5	97
40	Microbial Community Diversity of Moonmilk Deposits at Ballynamintra Cave, Co. Waterford, Ireland. Microbial Ecology, 2010, 60, 753-761.	2.8	26
41	An investigation of the controls on Irish precipitation l´180 values on monthly and event timescales. Climate Dynamics, 2010, 35, 977-993.	3.8	47
42	Molecular Characterization of Fungal Communities in Sandstone. Geomicrobiology Journal, 2010, 27, 559-571.	2.0	25
43	A radiocarbon dated bat guano deposit from N.W. Romania: Implications for the timing of the Little Ice Age and Medieval Climate Anomaly. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 291, 217-227.	2.3	21
44	Meter-Scale Diversity of Microbial Communities on a Weathered Pegmatite Granite Outcrop in the Wicklow Mountains, Ireland; Evidence for Mineral Induced Selection?. Geomicrobiology Journal, 2010, 27, 1-14.	2.0	48
45	Cosmogenic ³⁶ Cl in karst waters: Quantifying contributions from atmospheric and bedrock sources. Geophysical Research Letters, 2009, 36, .	4.0	3
46	Spatial variability in the European winter precipitation <i>δ</i> ¹⁸ Oâ€NAO relationship: Implications for reconstructing NAOâ€mode climate variability in the Holocene. Geophysical Research Letters, 2008, 35, .	4.0	97
47	Late Holocene climate oscillations and solar fluctuations from speleothem STALâ€AHâ€1, Sauerland, Germany: A numerical perspective. Geophysical Research Letters, 2008, 35, .	4.0	6
48	Very high-frequency and seasonal cave atmosphere PCO2 variability: Implications for stalagmite growth and oxygen isotope-based paleoclimate records. Earth and Planetary Science Letters, 2008, 272, 118-129.	4.4	141
49	The distribution of meteoric Cl-36 in precipitation across Europe in spring 2007. Earth and Planetary Science Letters, 2008, 275, 154-164.	4.4	18
50	Isotopic archives of sulphate in speleothems. Geochimica Et Cosmochimica Acta, 2008, 72, 2465-2477.	3.9	54
51	Multi-proxy evidence for Holocene lake-level and salinity changes at An Loch Mór, a coastal lake on the Aran Islands, Western Ireland. Quaternary Science Reviews, 2007, 26, 2438-2462.	3.0	32
52	Understanding Microbially Active Biogeochemical Environments. Advances in Applied Microbiology, 2007, 62, 81-104.	2.4	21
53	ISOTOPES IN SPELEOTHEMS. , 2006, , 185-225.		73
54	Spatial variability in cave drip water hydrochemistry: Implications for stalagmite paleoclimate records. Chemical Geology, 2006, 235, 390-404.	3.3	124

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55	Structural diversity of bacterial communities in a heavy metal mineralized granite outcrop. Environmental Microbiology, 2006, 8, 383-393.	3.8	24
56	Characterization of Bacterial Community Structure on a Weathered Pegmatitic Granite. Microbial Ecology, 2006, 51, 526-534.	2.8	114
57	Modification and preservation of environmental signals in speleothems. Earth-Science Reviews, 2006, 75, 105-153.	9.1	669
58	U-series and ESR analyses of bones and teeth relating to the human burials from Skhul. Journal of Human Evolution, 2005, 49, 316-334.	2.6	282
59	Annual trace element cycles in calcite-aragonite speleothems: evidence of drought in the western Mediterranean 1200-1100 yr BP. Journal of Quaternary Science, 2005, 20, 423-433.	2.1	110
60	Characterization of Fungal Community Structure on a Weathered Pegmatitic Granite. Microbial Ecology, 2005, 50, 360-368.	2.8	114
61	The petrogenesis of volcanics from Mt. Bulusan and Mt. Mayon in the Bicol arc, the Philippines. Contributions To Mineralogy and Petrology, 2005, 150, 652-670.	3.1	49
62	Cenozoic K-rich adakitic volcanic rocks in the Hohxil area, northern Tibet: Lower-crustal melting in an intracontinental setting. Geology, 2005, 33, 465.	4.4	394
63	Biomass effects on stalagmite growth and isotope ratios: A 20th century analogue from Wiltshire, England. Earth and Planetary Science Letters, 2005, 240, 486-494.	4.4	110
64	Palaeo-climate reconstruction from stable isotope variations in speleothems: a review. Quaternary Science Reviews, 2004, 23, 901-918.	3.0	793
65	Numerical investigations of passive and reactive flow through generic single fractures with heterogeneous permeability. Earth and Planetary Science Letters, 2003, 213, 271-284.	4.4	31
66	A numerical study of passive transport through fault zones. Earth and Planetary Science Letters, 2003, 214, 633-643.	4.4	20
67	Late Holocene annual growth in three Alpine stalagmites records the influence of solar activity and the North Atlantic Oscillation on winter climate. Earth and Planetary Science Letters, 2003, 216, 411-424.	4.4	168
68	Structure of the 8200-Year Cold Event Revealed by a Speleothem Trace Element Record. Science, 2002, 296, 2203-2206.	12.6	179
69	A comparison of published experimental data with a coupled lattice Boltzmann-analytic advection–diffusion method for reactive transport in porous media. Journal of Hydrology, 2002, 268, 143-157.	5.4	19
70	Aragonite-Calcite Relationships in Speleothems (Grotte De Clamouse, France): Environment, Fabrics, and Carbonate Geochemistry. Journal of Sedimentary Research, 2002, 72, 687-699.	1.6	182
71	Centennial-Scale Holocene Climate Variability Revealed by a High-Resolution Speleothem delta 180 Record from SW Ireland. Science, 2001, 294, 1328-1331.	12.6	373
72	Seasonal variations in Sr, Mg and P in modern speleothems (Grotta di Ernesto, Italy). Chemical Geology, 2001, 175, 429-448.	3.3	186

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73	Annual to sub-annual resolution of multiple trace-element trends in speleothems. Journal of the Geological Society, 2001, 158, 831-841.	2.1	148
74	Numerical and experimental modelling of fluid–rock interactions with heterogeneous porosity. Journal of Geochemical Exploration, 2000, 69-70, 119-125.	3.2	0
75	Mg, Sr and Sr isotope geochemistry of a Belgian Holocene speleothem: implications for paleoclimate reconstructions. Chemical Geology, 2000, 169, 131-144.	3.3	103
76	Controls on trace element (Sr–Mg) compositions of carbonate cave waters: implications for speleothem climatic records. Chemical Geology, 2000, 166, 255-269.	3.3	470
77	Calcite Fabrics, Growth Mechanisms, and Environments of Formation in Speleothems from the Italian Alps and Southwestern Ireland. Journal of Sedimentary Research, 2000, 70, 1183-1196.	1.6	304
78	Visualisation of luminescence excitation-emission timeseries: Palaeoclimate implications from a 10,000 year stalagmite record from Ireland. Geophysical Research Letters, 2000, 27, 2145-2148.	4.0	6
79	Holocene climate variability in Europe: Evidence from δ180, textural and extension-rate variations in three speleothems. Quaternary Science Reviews, 1999, 18, 1021-1038.	3.0	200
80	ESR and U-series analyses of teeth from the palaeoanthropological site of Hexian, Anhui Province, China. Journal of Human Evolution, 1998, 34, 555-564.	2.6	78
81	A U-series study of lavas from Kamchatka and the Aleutians: constraints on source composition and melting processes. Contributions To Mineralogy and Petrology, 1998, 133, 217-234.	3.1	94
82	Aeolian contribution to strontium and strontium isotope variations in a Tasmanian speleothem. Chemical Geology, 1998, 149, 37-50.	3.3	95
83	U-Th Isotopes in Arc Magmas: Implications for Element Transfer from the Subducted Crust. Science, 1997, 276, 551-555.	12.6	806
84	Trace element and Srî—,Ndî—,Pb isotopic constraints on a three-component model of Kamchatka Arc petrogenesis. Geochimica Et Cosmochimica Acta, 1997, 61, 577-600.	3.9	501
85	Elemental U and Th variations in island arc rocks: implications for U-series isotopes. Chemical Geology, 1997, 139, 207-221.	3.3	190
86	ESR and mass-spectrometric uranium-series dating studies of a mammoth tooth from stanton harcourt, Oxfordshire, England. Quaternary Science Reviews, 1997, 16, 445-454.	3.0	10
87	New Late-Pleistocene uranium–thorium and ESR dates for the Singa hominid (Sudan). Journal of Human Evolution, 1996, 31, 507-516.	2.6	107
88	Geochemical constraints on crustal anatexis: a case study from the Pan-African Damara granitoids of Namibia. Contributions To Mineralogy and Petrology, 1996, 123, 406-423.	3.1	97
89	Evidence of Younger Dryas and Neoglacial cooling in a Late Quaternary palaeotemperature record from a speleothem in eastern Victoria, Australia. Journal of Quaternary Science, 1996, 11, 1-7.	2.1	29
90	Geochemical characteristics and origin of the Jacupiranga carbonatites, Brazil. Chemical Geology, 1995, 119, 79-99.	3.3	59

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91	Destructive plate margin magmatism: Geochemistry and melt generation. Lithos, 1994, 33, 169-188.	1.4	110
92	Open system modelling for U-series and ESR dating of teeth. Quaternary Science Reviews, 1994, 13, 121-125.	3.0	61
93	Mantle metasomatic enrichment versus arc crust contamination in the Philippines: Oxygen isotope study of Batan ultramafic nodules and northern Luzon arc lavas. Chemical Geology, 1994, 114, 199-215.	3.3	25
94	Isotope and trace element evidence for three component mixing in the genesis of the North Luzon arc lavas (Philippines). Contributions To Mineralogy and Petrology, 1993, 113, 9-23.	3.1	117
95	Mass-spectrometric U-series dates for Israeli Neanderthal/early modern hominid sites. Nature, 1993, 363, 252-255.	27.8	161
96	Measurement of 230Th232Th ratios in young volcanic rocks by single-sector thermal ionisation mass spectrometry. Chemical Geology, 1993, 103, 283-292.	3.3	19
97	Th, Pb, and Sr isotope variations in young island arc volcanics and oceanic sediments. Earth and Planetary Science Letters, 1991, 104, 1-15.	4.4	127
98	Destructive margin magmatism and the contributions from the mantle wedge and subducted crust. Australian Journal of Earth Sciences, 1991, 38, 577-594.	1.0	68
99	The evolution of strontium isotopes in the upper continental crust. Nature, 1990, 344, 850-853.	27.8	17
100	Correlation of lead isotopes in Lower Jurassic rocks of South Wales. Proceedings of the Geologists Association, 1990, 101, 341-343.	1.1	2
101	Pb isotope data from late Proterozoic subduction-related rocks: Implications for crust-mantle evolution. Chemical Geology, 1990, 83, 165-181.	3.3	21
102	Intracrustal recycling and upper-crustal evolution: A case study from the Pan-African Damara mobile belt, central Namibia. Chemical Geology, 1990, 83, 263-280.	3.3	49
103	Petrology and geochemistry of volcanic rocks of the Cerro Galan caldera, northwest Argentina. Geological Magazine, 1989, 126, 515-547.	1.5	132
104	Crustal reworking in southern Africa: constraints from Sr-Nd isotope studies in Archaean to Pan-African terrains. Tectonophysics, 1989, 161, 257-270.	2.2	19
105	High precision measurement of 234U238U and 230Th232Th ratios in young volcanic rocks using multi-collector mass spectrometry. Chemical Geology, 1988, 70, 128.	3.3	2
106	Evolution of continental crust in southern Africa. Earth and Planetary Science Letters, 1987, 83, 85-93.	4.4	48
107	Th/U and U series systematics of saprolite: importance for the oceanic 234U excess. Geochemical Perspectives Letters, 0, , 17-22.	5.0	9