

Francis A Macdonald

List of Publications by Year in descending order

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papers

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66250

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101
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101
docs citations

101
times ranked

4182
citing authors

#	ARTICLE	IF	CITATIONS
1	A template for an improved rock-based subdivision of the pre-Cryogenian timescale. <i>Journal of the Geological Society</i> , 2022, 179, .	0.9	18
2	Global and local drivers of the Ediacaran Shuram carbon isotope excursion. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117368.	1.8	37
3	A robust age model for the Cryogenian Pocatello Formation of southeastern Idaho (northwestern) Tj ETQq1 1 0.784314 rgBT /Overlo zircon. , 2022, 18, 825-849.	0.784314	6
4	Cannibalization of a late Cambrian backarc in southern Peru: New insights into the assembly of southwestern Gondwana. <i>Gondwana Research</i> , 2021, 92, 202-227.	3.0	7
5	A Consistently Highâ€Latitude South China From 820 to 780ÂMa: Implications for Exclusion From Rodinia and the Feasibility of Largeâ€Scale True Polar Wander. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021541.	1.4	16
6	Stratigraphy of the Khuvsgul Group, Mongolia. <i>Mongolian Geoscientist</i> , 2021, 26, 2-15.	0.3	3
7	The Late Great Unconformity of the Central Canadian Shield. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009567.	1.0	21
8	A lithium-isotope perspective on the evolution of carbon and silicon cycles. <i>Nature</i> , 2021, 595, 394-398.	13.7	56
9	Reply to Rugenstein et al.: Marine Sr and Os records do not preclude Neogene cooling through emergence of the Southeast Asian islands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	2
10	The Sedimentary Geochemistry and Paleoenvironments Project. <i>Geobiology</i> , 2021, 19, 545-556.	1.1	26
11	Fingerprinting local controls on the Neoproterozoic carbon cycle with the isotopic record of Cryogenian carbonates in the Panamint Range, California. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116956.	1.8	11
12	The Ca and Mg isotope record of the Cryogenian Trezona carbon isotope excursion. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117002.	1.8	19
13	Snowballs in Africa: sectioning a long-lived Neoproterozoic carbonate platform and its bathyal foreslope (NW Namibia). <i>Earth-Science Reviews</i> , 2021, 219, 103616.	4.0	30
14	A Laurentian cratonic reference from the distal Proterozoic basement of Western Newfoundland using tandem <i>in situ</i> and isotope dilution U-pb zircon and titanite geochronology. <i>Numerische Mathematik</i> , 2021, 321, 1045-1079.	0.7	4
15	The tempo of Ediacaran evolution. <i>Science Advances</i> , 2021, 7, eabi9643.	4.7	80
16	Emergence of the Southeast Asian islands as a driver for Neogene cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25319-25326.	3.3	42
17	Geochronological constraints on Neoproterozoic rifting and onset of the Marinoan glaciation from the Kingston Peak Formation in Death Valley, California (USA). <i>Geology</i> , 2020, 48, 1083-1087.	2.0	29
18	Deepâ€Time Paleoclimate Proxies. <i>AGU Advances</i> , 2020, 1, e2020AV000244.	2.3	3

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19	Effect of dolomitization on isotopic records from Neoproterozoic carbonates in southwestern Mongolia. <i>Precambrian Research</i> , 2020, 350, 105902.	1.2	9
20	Volcanic controls on seawater sulfate over the past 120 million years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21118-21124.	3.3	8
21	Isotopically anomalous organic carbon in the aftermath of the Marinoan snowball Earth. <i>Geobiology</i> , 2020, 18, 476-485.	1.1	3
22	The triple oxygen isotope composition of Precambrian chert. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116167.	1.8	30
23	Diachronous development of Great Unconformities before Neoproterozoic Snowball Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10172-10180.	3.3	41
24	U-Pb and Re-Os geochronology tracks stratigraphic condensation in the Sturtian snowball Earth aftermath. <i>Geology</i> , 2020, 48, 625-629.	2.0	57
25	The geologic history of seawater oxygen isotopes from marine iron oxides. <i>Science</i> , 2019, 365, 469-473.	6.0	81
26	Arc-continent collisions in the tropics set Earth's climate state. <i>Science</i> , 2019, 364, 181-184.	6.0	171
27	An early diagenetic deglacial origin for basal Ediacaran cap dolostones. <i>Earth and Planetary Science Letters</i> , 2019, 506, 292-307.	1.8	66
28	Phosphatized early Cambrian archaeocyaths and small shelly fossils (SSFs) of southwestern Mongolia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 513, 166-177.	1.0	13
29	Palaeobiology of latest Ediacaran phosphorites from the upper Khesen Formation, Khuvsgul Group, northern Mongolia. <i>Journal of Systematic Palaeontology</i> , 2019, 17, 501-532.	0.6	24
30	One diamictite and two rifts: Stratigraphy and geochronology of the Gataga Mountain of northern British Columbia. <i>Numerische Mathematik</i> , 2018, 318, 167-207.	0.7	28
31	Cryogenian magmatism along the north-western margin of Laurentia: Plume or rift?. <i>Precambrian Research</i> , 2018, 319, 144-157.	1.2	15
32	Cryogenian of Yukon. <i>Precambrian Research</i> , 2018, 319, 114-143.	1.2	68
33	Calcium isotope evidence that the earliest metazoan biomineralizers formed aragonite shells. <i>Geology</i> , 2018, 46, 763-766.	2.0	25
34	Tropical weathering of the Taconic orogeny as a driver for Ordovician cooling: REPLY. <i>Geology</i> , 2018, 46, e437-e437.	2.0	0
35	Coupled Re-Os and U-Pb geochronology of the Tonian Chuar Group, Grand Canyon. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 1085-1098.	1.6	30
36	Sr and Mg isotope geochemistry of the basal Ediacaran cap limestone sequence of Mongolia: Implications for carbonate diagenesis, mixing of glacial meltwaters, and seawater chemistry in the aftermath of Snowball Earth. <i>Chemical Geology</i> , 2018, 491, 1-13.	1.4	18

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37	Biologically agglutinated eukaryotic microfossil from Cryogenian cap carbonates. <i>Geobiology</i> , 2017, 15, 499-515.	1.1	20
38	Initiation of Snowball Earth with volcanic sulfur aerosol emissions. <i>Geophysical Research Letters</i> , 2017, 44, 1938-1946.	1.5	71
39	Tracking the onset of Phanerozoic-style redox-sensitive trace metal enrichments: New results from basal Ediacaran post-glacial strata in NW Canada. <i>Chemical Geology</i> , 2017, 457, 24-37.	1.4	35
40	Persistence of a freshwater surface ocean after a snowball Earth. <i>Geology</i> , 2017, 45, 615-618.	2.0	63
41	Palaeobiology of the early Ediacaran Shuurgat Formation, Zavkhan Terrane, south-western Mongolia. <i>Journal of Systematic Palaeontology</i> , 2017, 15, 947-968.	0.6	10
42	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017, 3, e1600983.	4.7	424
43	Bridging the gap between the foreland and hinterland II: Geochronology and tectonic setting of Ordovician magmatism and basin formation on the Laurentian margin of New England and Newfoundland. <i>Numerische Mathematik</i> , 2017, 317, 555-596.	0.7	55
44	Bridging the gap between the foreland and hinterland I: Geochronology and plate tectonic geometry of Ordovician magmatism and terrane accretion on the Laurentian margin of New England. <i>Numerische Mathematik</i> , 2017, 317, 515-554.	0.7	57
45	Uranium isotope evidence for temporary ocean oxygenation in the aftermath of the Sturtian Snowball Earth. <i>Earth and Planetary Science Letters</i> , 2017, 458, 282-292.	1.8	101
46	PYRITIZED CRYOGENIAN CYANOBACTERIAL FOSSILS FROM ARCTIC ALASKA. <i>Palaios</i> , 2017, 32, 769-778.	0.6	7
47	Doushantuo-type microfossils from latest Ediacaran phosphorites of northern Mongolia. <i>Geology</i> , 2017, 45, 1079-1082.	2.0	35
48	Low-latitude arc-continent collision as a driver for global cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4935-4940.	3.3	81
49	Continental flood basalt weathering as a trigger for Neoproterozoic Snowball Earth. <i>Earth and Planetary Science Letters</i> , 2016, 446, 89-99.	1.8	215
50	The end of the Ediacaran: Two new exceptionally preserved body fossil assemblages from Mount Dunfee, Nevada, USA. <i>Geology</i> , 2016, 44, 911-914.	2.0	66
51	Dodging snowballs: Geochronology of the Gaskiers glaciation and the first appearance of the Ediacaran biota. <i>Geology</i> , 2016, 44, 955-958.	2.0	241
52	Neoproterozoic to early Paleozoic tectonic evolution of the Zavkhan terrane of Mongolia: Implications for continental growth in the Central Asian orogenic belt. <i>Lithosphere</i> , 2016, 8, 729-750.	0.6	64
53	Triple oxygen and multiple sulfur isotope constraints on the evolution of the post-Marinoan sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2016, 435, 74-83.	1.8	52
54	Neoproterozoic stratigraphy of the Zavkhan terrane of Mongolia: The backbone for Cryogenian and early Ediacaran chemostratigraphic records. <i>Numerische Mathematik</i> , 2016, 316, 1-63.	0.7	90

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55	Tectonostratigraphic evolution of the 780–730 Ma Beck Spring Dolomite: Basin Formation in the core of Rodinia. Geological Society Special Publication, 2016, 424, 213-239.	0.8	17
56	Integrated stratigraphic, geochemical, and paleontological late Ediacaran to early Cambrian records from southwestern Mongolia. Bulletin of the Geological Society of America, 2016, 128, 442-468.	1.6	71
57	New Ediacaran fossils from the uppermost Blueflower Formation, northwest Canada: disentangling biostratigraphy and paleoecology. Journal of Paleontology, 2015, 89, 281-291.	0.5	19
58	Kikikkat volcanics of Arctic Alaska—Melting of harzburgitic mantle associated with the Franklin large igneous province. Lithosphere, 2015, 7, 275-295.	0.6	50
59	Stratigraphic evolution of the Neoproterozoic Callison Lake Formation: Linking the break-up of Rodinia to the Islay carbon isotope excursion. Numerische Mathematik, 2015, 315, 881-944.	0.7	43
60	Statistical analysis of iron geochemical data suggests limited late Proterozoic oxygenation. Nature, 2015, 523, 451-454.	13.7	484
61	FOSSILS OF PUTATIVE MARINE ALGAE FROM THE CRYOGENIAN GLACIAL INTERLUDE OF MONGOLIA. Palaios, 2015, 30, 238-247.	0.6	27
62	A Cryogenian chronology: Two long-lasting synchronous Neoproterozoic glaciations. Geology, 2015, 43, 459-462.	2.0	346
63	The Proterozoic Record of Eukaryotes. Paleobiology, 2015, 41, 610-632.	1.3	139
64	Re-Os geochronology and coupled Os-Sr isotope constraints on the Sturtian snowball Earth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 51-56.	3.3	219
65	Trace Fossils with Spreiten from the Late Ediacaran Nama Group, Namibia: Complex Feeding Patterns Five Million Years Before the Precambrian–Cambrian Boundary. Journal of Paleontology, 2014, 88, 299-308.	0.5	41
66	740 Ma vase-shaped microfossils from Yukon, Canada: Implications for Neoproterozoic chronology and biostratigraphy. Geology, 2014, 42, 659-662.	2.0	100
67	Neoproterozoic cap-dolostone deposition in stratified glacial meltwater plume. Earth and Planetary Science Letters, 2014, 404, 22-32.	1.8	71
68	Neoproterozoic iron formation: An evaluation of its temporal, environmental and tectonic significance. Chemical Geology, 2013, 362, 232-249.	1.4	134
69	A basin redox transect at the dawn of animal life. Earth and Planetary Science Letters, 2013, 371-372, 143-155.	1.8	117
70	PRESERVATIONAL AND MORPHOLOGICAL VARIABILITY OF ASSEMBLAGES OF AGGLUTINATED EUKARYOTES IN CRYOGENIAN CAP CARBONATES OF NORTHERN NAMIBIA. Palaios, 2013, 28, 67-79.	0.6	36
71	Dynamics of a Snowball Earth ocean. Nature, 2013, 495, 90-93.	13.7	58
72	The Laurentian record of Neoproterozoic glaciation, tectonism, and eukaryotic evolution in Death Valley, California. Bulletin of the Geological Society of America, 2013, 125, 1203-1223.	1.6	60

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73	The stratigraphic relationship between the Shuram carbon isotope excursion, the oxygenation of Neoproterozoic oceans, and the first appearance of the Ediacara biota and bilaterian trace fossils in northwestern Canada. <i>Chemical Geology</i> , 2013, 362, 250-272.	1.4	148
74	Authigenic Carbonate and the History of the Global Carbon Cycle. <i>Science</i> , 2013, 339, 540-543.	6.0	398
75	Microbial Sedimentology of Stromatolites in Neoproterozoic Cap Carbonates. <i>The Paleontological Society Papers</i> , 2013, 19, 51-76.	0.8	17
76	Uncovering the Neoproterozoic carbon cycle. <i>Nature</i> , 2012, 483, 320-323.	13.7	155
77	Possible early foraminiferans in post-Sturtian (716~635 Ma) cap carbonates. <i>Geology</i> , 2012, 40, 67-70.	2.0	66
78	Phosphate biomineralization in mid-Neoproterozoic protists. <i>Geology</i> , 2011, 39, 539-542.	2.0	62
79	Sedimentary talc in Neoproterozoic carbonate successions. <i>Earth and Planetary Science Letters</i> , 2011, 306, 11-22.	1.8	97
80	Chapter 30 The Khubsugul Group, Northern Mongolia. <i>Geological Society Memoir</i> , 2011, 36, 339-345.	0.9	10
81	Chapter 29 The Tsagaan Oloom Formation, southwestern Mongolia. <i>Geological Society Memoir</i> , 2011, 36, 331-337.	0.9	7
82	Chapter 34 The Hula Hula Diamictite and Katakaturuk Dolomite, Arctic Alaska. <i>Geological Society Memoir</i> , 2011, 36, 379-388.	0.9	5
83	Chapter 5 Chemical sediments associated with Neoproterozoic glaciation: iron formation, cap carbonate, barite and phosphorite. <i>Geological Society Memoir</i> , 2011, 36, 67-80.	0.9	42
84	Chapter 35 The Tatonduk inlier, Alaska~Yukon border. <i>Geological Society Memoir</i> , 2011, 36, 389-396.	0.9	2
85	Stratigraphy of the Port Nolloth Group of Namibia and South Africa and implications for the age of Neoproterozoic iron formations. <i>Numerische Mathematik</i> , 2010, 310, 862-888.	0.7	51
86	Early Neoproterozoic scale microfossils in the Lower Tindir Group of Alaska and the Yukon Territory. <i>Geology</i> , 2010, 38, 143-146.	2.0	36
87	Sheet-crack cements and early regression in Marinoan (635Ma) cap dolostones: Regional benchmarks of vanishing ice-sheets?. <i>Earth and Planetary Science Letters</i> , 2010, 300, 374-384.	1.8	57
88	Microbial facies in a Sturtian cap carbonate, the Rasthof Formation, Otavi Group, northern Namibia. <i>Precambrian Research</i> , 2010, 181, 187-198.	1.2	43
89	Calibrating the Cryogenian. <i>Science</i> , 2010, 327, 1241-1243.	6.0	488
90	Neoproterozoic glaciation on a carbonate platform margin in Arctic Alaska and the origin of the North Slope subterranean. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 448-473.	1.6	68

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91	Stratigraphic and tectonic implications of a newly discovered glacial diamictite cap carbonate couplet in southwestern Mongolia. <i>Geology</i> , 2009, 37, 123-126.	2.0	112
92	Amelia Creek: a Proterozoic impact structure in the Davenport Ranges, Northern Territory. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 631-640.	0.4	12
93	Goat Paddock, Western Australia: an impact crater near the simple to complex transition. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 689-697.	0.4	16
94	Geology and age of the Glikson impact structure, Western Australia. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 641-651.	0.4	21
95	The Shoemaker legacy to the Australian impact record. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 477-479.	0.4	4
96	Geology of five small Australian impact craters. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 529-544.	0.4	32
97	Yarrabubba - a large, deeply eroded impact structure in the Yilgarn Craton, Western Australia. <i>Earth and Planetary Science Letters</i> , 2003, 213, 235-247.	1.8	31
98	A Low Temperature Transfer of ALH84001 from Mars to Earth. <i>Science</i> , 2000, 290, 791-795.	6.0	205
99	Tropical weathering of the Taconic orogeny as a driver for Ordovician cooling. <i>Geology</i> , 0, , G38985.1.	2.0	13