

# Duncan Mcilroy

## List of Publications by Year in descending order

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72  
papers

2,204  
citations

186265

28  
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243625

44  
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73  
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73  
docs citations

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times ranked

1141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Palaeobiology of the reclining rangeomorph <i>Beothukis</i> from the Ediacaran Mistaken Point Formation of southeastern Newfoundland. <i>Geological Magazine</i> , 2022, 159, 1160-1174.	1.5	14
2	Were the First Trace Fossils Really Burrows or Could They Have Been Made by Sediment-Displacive Chemosymbiotic Organisms?. <i>Life</i> , 2022, 12, 136.	2.4	3
3	Charniodiscus and Arborea Are Separate Genera Within the Arboreomorpha: Using the Holotype of <i>C. concentricus</i> to Resolve a Taphonomic/Taxonomic Tangle. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	6
4	A Chronostratigraphic Framework for the Rise of the Ediacaran Macrobiota: New Constraints from Mistaken Point Ecological Reserve, Newfoundland. <i>Bulletin of the Geological Society of America</i> , 2021, 133, 612-624.	3.3	49
5	A quantitative and statistical discrimination of morphotaxa within the Ediacaran genus <i>Palaeopascichnus</i> . <i>Papers in Palaeontology</i> , 2021, 7, 657-673.	1.5	7
6	A re-assessment of the taxonomy, palaeobiology and taphonomy of the rangeomorph organism <i>Hapsidophyllas flexibilis</i> from the Ediacaran of Newfoundland, Canada. <i>Palaontologische Zeitschrift</i> , 2021, 95, 187-207.	1.6	9
7	The role of symbiosis in the first colonization of the seafloor by macrobiota: Insights from the oldest Ediacaran biota (Newfoundland, Canada). <i>BioSystems</i> , 2021, 205, 104413.	2.0	17
8	Ethology of the trace fossil Chondrites: Form, function and environment. <i>Earth-Science Reviews</i> , 2020, 202, 102989.	9.1	47
9	A MULTIVARIATE STATISTICAL ANALYSIS OF THE EDIACARAN RANGEOMORPH TAXA <i>BEOTHUKIS</i> AND <i>CULMOFRONS</i> . <i>Palaios</i> , 2020, 35, 495-511.	1.3	7
10	On the Adhesion of Sediment to Footwear and the Implications for Geoconservation. <i>Geoheritage</i> , 2019, 11, 1749-1756.	2.8	2
11	Reevaluaci3n cr3tica del holotipo de <i>Beothukis mistakensis</i> , 3nico organismo rangeomorfo excepcionalmente preservado en Mistaken Point, Terranova, Canad3. <i>Estudios Geologicos</i> , 2019, 75, 117.	0.2	2
12	The morphology and mode of formation of <i>Neoeione</i> igen. nov. from the Carboniferous of northern England. <i>Palaontologische Zeitschrift</i> , 2018, 92, 179-190.	1.6	8
13	New occurrences of <i>Palaeopascichnus</i> from the St3hpogieddi Formation, Arctic Norway, and their bearing on the age of the Varanger Ice Age. <i>Canadian Journal of Earth Sciences</i> , 2018, 55, 1253-1261.	1.3	19
14	An Ediacaran pre-placozoan alternative to the pre-sponge route towards the Cambrian explosion of animal life: a comment on Cavalier-Smith 2017. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170148.	4.0	11
15	Engineering the Cambrian explosion: the earliest bioturbators as ecosystem engineers. <i>Geological Society Special Publication</i> , 2017, 448, 369-382.	1.3	49
16	Three-dimensional morphological analysis of a <i>Parahaentzschelinia</i> -like trace fossil. <i>Papers in Palaeontology</i> , 2017, 3, 241-258.	1.5	7
17	Three-Dimensional Morphology of <i>Beaconites capronus</i> from Northeast England. <i>Ichnos</i> , 2017, 24, 250-258.	0.5	10
18	Contributions of Professor Martin Brasier to the study of early life, stratigraphy and biogeochemistry. <i>Geological Society Special Publication</i> , 2017, 448, 1-17.	1.3	0

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19	Refining palaeoenvironmental analysis using integrated quantitative granulometry and palynology. <i>Petroleum Geoscience</i> , 2017, 23, 395-402.	1.5	5
20	Ediacaran pre-placozoan diploblasts in the Avalonian biota: the role of chemosynthesis in the evolution of early animal life. <i>Geological Society Special Publication</i> , 2017, 448, 211-219.	1.3	24
21	Post-fossilization processes and their implications for understanding Ediacaran microfossil assemblages. <i>Geological Society Special Publication</i> , 2017, 448, 251-269.	1.3	11
22	Ichnological evidence for meiofaunal bilaterians from the terminal Ediacaran and earliest Cambrian of Brazil. <i>Nature Ecology and Evolution</i> , 2017, 1, 1455-1464.	7.8	95
23	â€˜Intritesâ€™ from the Ediacaran Longmyndian Supergroup, UK: a new form of microbially-induced sedimentary structure (MISS). <i>Geological Society Special Publication</i> , 2017, 448, 271-283.	1.3	14
24	Martin Brasier's contribution to the palaeobiology of the Ediacaranâ€“Cambrian transition. <i>Geological Society Special Publication</i> , 2017, 448, 179-193.	1.3	3
25	Ichnological evidence for the Cambrian explosion in the Ediacaran to Cambrian succession of Tanafjord, Finnmark, northern Norway. <i>Geological Society Special Publication</i> , 2017, 448, 351-368.	1.3	22
26	Three-Dimensional Morphological and Permeability Modelling of <i>Diplocraterion</i> . <i>Ichnos</i> , 2017, 24, 51-63.	0.5	12
27	Three-dimensional morphology and palaeobiology of the trace fossil <i>Dactyloidites jordii</i> nov. isp. from the Carboniferous of England. <i>Geobios</i> , 2016, 49, 257-264.	1.4	8
28	Ichnology and palaeobiology of <i>Phoebichnus trochoides</i> from the Middle Jurassic of north-east England. <i>Papers in Palaeontology</i> , 2016, 2, 139-154.	1.5	11
29	The <i>B</i> / <i>eothukis</i> / <i>C</i> / <i>ulmofrons</i> problem and its bearing on <i>E</i> / <i>diacaran</i> macrofossil taxonomy: evidence from an exceptional new fossil locality. <i>Palaeontology</i> , 2016, 59, 45-58.	2.2	26
30	Palaeobiology of <i>Schaubcylichnus heberti</i> comb. nov. from the Lower Jurassic of Northeast England. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 449, 246-254.	2.3	9
31	The dynamic influence of microbial mats on sediments: fluid escape and pseudofossil formation in the Ediacaran Longmyndian Supergroup, UK. <i>Journal of the Geological Society</i> , 2016, 173, 177-185.	2.1	44
32	The arrangement of possible muscle fibres in the Ediacaran taxon <i>Haootia quadriformis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142949.	2.6	10
33	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. <i>Geology</i> , 2015, 43, 1007-1010.	4.4	14
34	Organismâ€“sediment interactions in shale-hydrocarbon reservoir facies â€“ Three-dimensional reconstruction of complex ichnofabric geometries and pore-networks. <i>International Journal of Coal Geology</i> , 2015, 150-151, 238-251.	5.0	22
35	<i>Haootia quadriformis</i> n. gen., n. sp., interpreted as a muscular cnidarian impression from the Late Ediacaran period (approx. 560 Ma). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141202.	2.6	75
36	Physical, biological, geochemical and sedimentological controls on the ichnology of submarine canyon and slope channel systems. <i>Marine and Petroleum Geology</i> , 2014, 54, 144-166.	3.3	30

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37	Ichnology of Late Cretaceous Turbidites from the Rosario Formation, Baja California, Mexico. <i>Ichnos</i> , 2013, 20, 1-14.	0.5	12
38	Discussion: "Were the Ediacaran siliciclastics of South Australia coastal or deep marine?" by Retallack <i>et al.</i> , <i>Sedimentology</i> , 59, 1208-1236. <i>Sedimentology</i> , 2013, 60, 624-627.	3.1	18
39	Explaining the exceptional preservation of Ediacaran rangeomorphs from Spaniard's Bay, Newfoundland: A hydraulic model. <i>Precambrian Research</i> , 2013, 231, 122-135.	2.7	30
40	Integrated ichnological and sedimentological analysis of a Late Cretaceous submarine channel-levee system: The Rosario Formation, Baja California, Mexico. <i>Marine and Petroleum Geology</i> , 2013, 41, 277-294.	3.3	30
41	Middle Jurassic vegetation dynamics from allochthonous palynological assemblages: An example from a marginal marine depositional setting; Lajas Formation, Neuqu�n Basin, Argentina. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 392, 117-127.	2.3	37
42	Exploring an Ediacaran "nursery": growth, ecology and evolution in a rangeomorph palaeocommunity. <i>Geology Today</i> , 2013, 29, 23-26.	0.9	13
43	Microbial mats implicated in the generation of intrastratal shrinkage ("synaeresis") cracks. <i>Sedimentology</i> , 2013, 60, 1621-1638.	3.1	59
44	Evidence for Cnidaria-like behavior in ca. 560 Ma Ediacaran <i>Aspidella</i> . <i>Geology</i> , 2013, 41, 895-898.	4.4	61
45	The oldest evidence of bioturbation on Earth: COMMENT. <i>Geology</i> , 2013, 41, e289-e289.	4.4	25
46	A new assemblage of juvenile Ediacaran fronds from the Drook Formation, Newfoundland. <i>Journal of the Geological Society</i> , 2012, 169, 395-403.	2.1	54
47	Early Cambrian metazoans in fluvial environments, evidence of the non-marine Cambrian radiation: COMMENT. <i>Geology</i> , 2012, 40, e269-e269.	4.4	9
48	Effect of phycosiphoniform burrows on shale hydrocarbon reservoir quality. <i>AAPG Bulletin</i> , 2012, 96, 1957-1980.	1.5	27
49	The Recognition of <i>Ophiomorpha irregulaire</i> on the Basis of Pellet Morphology: Restudy of Material from the Type Locality. <i>Ichnos</i> , 2012, 19, 185-189.	0.5	8
50	John Salter and the Ediacara Fauna of the Longmyndian Supergroup. <i>Ichnos</i> , 2011, 18, 176-187.	0.5	13
51	Ichnological characterization of Eocene/Oligocene turbidites from the Gr�s d'Annot Basin, French Alps, SE France. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 300, 67-83.	2.3	38
52	Effaced preservation in the Ediacara biota and its implications for the early macrofossil record. <i>Palaeontology</i> , 2011, 54, 607-630.	2.2	85
53	Realistic interpretation of ichnofabrics and palaeoecology of the pipe-rock biotope. <i>Lethaia</i> , 2010, 43, 420-426.	1.4	18
54	First evidence for locomotion in the Ediacara biota from the 565 Ma Mistaken Point Formation, Newfoundland: REPLY. <i>Geology</i> , 2010, 38, e224-e224.	4.4	11

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55	Bioturbation influence on reservoir quality: A case study from the Cretaceous Ben Nevis Formation, Jeanne d'Arc Basin, offshore Newfoundland, Canada. AAPG Bulletin, 2010, 94, 1059-1078.	1.5	71
56	Comment on "Ophiomorpha irregulaire, Mesozoic trace fossil that is either well understood but rare in outcrop or poorly understood but common in core" by R.G. Bromley and G.K. Pedersen. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 284, 392-395.	2.3	4
57	Smothering of microbial mats by macrobiota: implications for the Ediacara biota. Journal of the Geological Society, 2009, 166, 1117-1121.	2.1	35
58	Ichnological analysis: The common ground between ichnofacies workers and ichnofabric analysts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 270, 332-338.	2.3	68
59	Lateral variability in shallow marine ichnofabrics: implications for the ichnofabric analysis method. Journal of the Geological Society, 2007, 164, 359-369.	2.1	51
60	Sedimentology of the tide-dominated Jurassic Lajas Formation, Neuqu�n Basin, Argentina. Geological Society Special Publication, 2005, 252, 83-107.	1.3	43
61	Palaeoclimatic implications of Middle Jurassic (Bajocian) coniferous wood from the Neuqu�n Basin, west-central Argentina. Geological Society Special Publication, 2005, 252, 267-278.	1.3	10
62	Reservoir modelling and simulation of Lajas Formation outcrops (Argentina) to constrain tidal reservoirs of the Halten Terrace (Norway). Petroleum Geoscience, 2005, 11, 37-46.	1.5	47
63	Fossils and matgrounds from the Neoproterozoic Longmyndian Supergroup, Shropshire, UK. Geological Magazine, 2005, 142, 441-455.	1.5	66
64	Ichnofabrics and sedimentary facies of a tide-dominated delta: Jurassic Ile Formation of Kristin Field, Haltenbanken, Offshore Mid-Norway. Geological Society Special Publication, 2004, 228, 237-272.	1.3	49
65	Some ichnological concepts, methodologies, applications and frontiers. Geological Society Special Publication, 2004, 228, 3-27.	1.3	66
66	Palaeobiology and evolution of the earliest agglutinated Foraminifera: Platysolenites, Spirosolenites and related forms. Lethaia, 2001, 34, 13-29.	1.4	86
67	A lower Cambrian protoconodont apparatus from the Placentian of southeastern Newfoundland. Lethaia, 2000, 33, 95-102.	1.4	18
68	Re-evaluation of the petroleum potential of the Kufra Basin (SE Libya, ne Chad): does the source rock barrier fall?. Marine and Petroleum Geology, 1999, 16, 693-718.	3.3	57
69	The Impact of Bioturbation on Infaunal Ecology and Evolution during the Proterozoic-Cambrian Transition. Palaios, 1999, 14, 58.	1.3	176
70	Applications of High-Resolution Sequence Stratigraphy to Reservoir Prediction and Flow Unit Definition in Aggradational Tidal Successions. , 1999, , 121-132.		11
71	Palaeobiological significance of <i>Plagiogmus arcuatus</i> from the lower Cambrian of central Australia. Alcheringa, 1997, 21, 161-178.	1.2	44
72	A reconsideration of the biogenicity of <i>Arumberia banksi</i> Glaessner & Walter. Alcheringa, 1997, 21, 79-80.	1.2	52