Duncan Mcilroy

List of Publications by Year
in descending order

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72	2,204	186265 28	243625 44
papers	citations	h-index	g-index

73	73	73	1141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Impact of Bioturbation on Infaunal Ecology and Evolution during the Proterozoic-Cambrian Transition. Palaios, 1999, 14, 58.	1.3	176
2	Ichnological evidence for meiofaunal bilaterians from the terminal Ediacaran and earliest Cambrian of Brazil. Nature Ecology and Evolution, 2017, 1, 1455-1464.	7.8	95
3	Palaeobiology and evolution of the earliest agglutinated Foraminifera: Platysolenites, Spirosolenites and related forms. Lethaia, 2001, 34, 13-29.	1.4	86
4	Effaced preservation in the Ediacara biota and its implications for the early macrofossil record. Palaeontology, 2011, 54, 607-630.	2.2	85
5	Haootia quadriformis n. gen., n. sp., interpreted as a muscular cnidarian impression from the Late Ediacaran period (approx. 560 Ma). Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141202.	2.6	75
6	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
7	Ichnological analysis: The common ground between ichnofacies workers and ichnofabric analysts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 270, 332-338.	2.3	68
8	Some ichnological concepts, methodologies, applications and frontiers. Geological Society Special Publication, 2004, 228, 3-27.	1.3	66
9	Fossils and matgrounds from the Neoproterozoic Longmyndian Supergroup, Shropshire, UK. Geological Magazine, 2005, 142, 441-455.	1.5	66
10	Evidence for Cnidaria-like behavior in ca. 560 Ma Ediacaran Aspidella. Geology, 2013, 41, 895-898.	4.4	61
11	Microbial mats implicated in the generation of intrastratal shrinkage (â€˜synaeresisâ€™) cracks. Sedimentology, 2013, 60, 1621-1638.	3.1	59
12	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
13	A new assemblage of juvenile Ediacaran fronds from the Drook Formation, Newfoundland. Journal of the Geological Society, 2012, 169, 395-403.	2.1	54
14	A reconsideration of the biogenicity ofArumberia banksiGlaessner & Walter. Alcheringa, 1997, 21, 79-80.	1.2	52
15	Lateral variability in shallow marine ichnofabrics: implications for the ichnofabric analysis method. Journal of the Geological Society, 2007, 164, 359-369.	2.1	51
16	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
17	Engineering the Cambrian explosion: the earliest bioturbators as ecosystem engineers. Geological Society Special Publication, 2017, 448, 369-382.	1.3	49
18	A Chronostratigraphic Framework for the Rise of the Ediacaran Macrobiota: New Constraints from Mistaken Point Ecological Reserve, Newfoundland. Bulletin of the Geological Society of America, 2021, 133, 612-624.	3.3	49

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19	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
20	Ethology of the trace fossil Chondrites: Form, function and environment. Earth-Science Reviews, 2020, 202, 102989.	9.1	47
21	Palaeobiological significance ofPlagiogmus arcuatusfrom the lower Cambrian of central Australia. Alcheringa, 1997, 21, 161-178.	1.2	44
22	The dynamic influence of microbial mats on sediments: fluid escape and pseudofossil formation in the Ediacaran Longmyndian Supergroup, UK. Journal of the Geological Society, 2016, 173, 177-185.	2.1	44
23	Sedimentology of the tide-dominated Jurassic Lajas Formation, NeuquÃ©n Basin, Argentina. Geological Society Special Publication, 2005, 252, 83-107.	1.3	43
24	Ichnological characterization of Eocene/Oligocene turbidites from the GrÃ¨s d'Annot Basin, French Alps, SE France. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 300, 67-83.	2.3	38
25	Middle Jurassic vegetation dynamics from allochthonous palynological assemblages: An example from a marginal marine depositional setting; Lajas Formation, NeuquÃ©n Basin, Argentina. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 392, 117-127.	2.3	37
26	Smothering of microbial mats by macrobiota: implications for the Ediacara biota. Journal of the Geological Society, 2009, 166, 1117-1121.	2.1	35
27	Explaining the exceptional preservation of Ediacaran rangeomorphs from Spaniard's Bay, Newfoundland: A hydraulic model. Precambrian Research, 2013, 231, 122-135.	2.7	30
28	Integrated ichnological and sedimentological analysis of a Late Cretaceous submarine channel-levee system: The Rosario Formation, Baja California, Mexico. Marine and Petroleum Geology, 2013, 41, 277-294.	3.3	30
29	Physical, biological, geochemical and sedimentological controls on the ichnology of submarine canyon and slope channel systems. Marine and Petroleum Geology, 2014, 54, 144-166.	3.3	30
30	Effect of phycosiphoniform burrows on shale hydrocarbon reservoir quality. AAPG Bulletin, 2012, 96, 1957-1980.	1.5	27
31	The <scp>B</scp>eothukis/<scp>C</scp>ulmofrons problem and its bearing on <scp>E</scp>diacaran macrofossil taxonomy: evidence from an exceptional new fossil locality. Palaeontology, 2016, 59, 45-58.	2.2	26
32	The oldest evidence of bioturbation on Earth: COMMENT. Geology, 2013, 41, e289-e289.	4.4	25
33	Ediacaran pre-placozoan diploblasts in the Avalonian biota: the role of chemosynthesis in the evolution of early animal life. Geological Society Special Publication, 2017, 448, 211-219.	1.3	24
34	Organismâ€“sediment interactions in shale-hydrocarbon reservoir facies â€” Three-dimensional reconstruction of complex ichnofabric geometries and pore-networks. International Journal of Coal Geology, 2015, 150-151, 238-251.	5.0	22
35	Ichnological evidence for the Cambrian explosion in the Ediacaran to Cambrian succession of Tanafjord, Finnmark, northern Norway. Geological Society Special Publication, 2017, 448, 351-368.	1.3	22
36	New occurrences of Palaeopascichnus from the StÃ¡hpogieddi Formation, Arctic Norway, and their bearing on the age of the Varanger Ice Age. Canadian Journal of Earth Sciences, 2018, 55, 1253-1261.	1.3	19

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37	A lower Cambrian protoconodont apparatus from the Placentian of southeastern Newfoundland. Lethaia, 2000, 33, 95-102.	1.4	18
38	Realistic interpretation of ichnofabrics and palaeoecology of the pipe-rock biotope. Lethaia, 2010, 43, 420-426.	1.4	18
39	Discussion: â€œWere the Ediacaran siliciclastics of South Australia coastal or deep marine?â€• by Retallack etÂal., Sedimentology, 59, 1208â€“1236. Sedimentology, 2013, 60, 624-627.	3.1	18
40	The role of symbiosis in the first colonization of the seafloor by macrobiota: Insights from the oldest Ediacaran biota (Newfoundland, Canada). BioSystems, 2021, 205, 104413.	2.0	17
41	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. Geology, 2015, 43, 1007-1010.	4.4	14
42	â€˜ Intrites â€™ from the Ediacaran Longmyndian Supergroup, UK: a new form of microbially-induced sedimentary structure (MISS). Geological Society Special Publication, 2017, 448, 271-283.	1.3	14
43	Palaeobiology of the reclining rangeomorph Beothukis from the Ediacaran Mistaken Point Formation of southeastern Newfoundland. Geological Magazine, 2022, 159, 1160-1174.	1.5	14
44	John Salter and the Ediacara Fauna of the Longmyndian Supergroup. Ichnos, 2011, 18, 176-187.	0.5	13
45	Exploring an Ediacaran â€˜nurseryâ€™: growth, ecology and evolution in a rangeomorph palaeocommunity. Geology Today, 2013, 29, 23-26.	0.9	13
46	Ichnology of Late Cretaceous Turbidites from the Rosario Formation, Baja California, Mexico. Ichnos, 2013, 20, 1-14.	0.5	12
47	Three-Dimensional Morphological and Permeability Modelling of Diplocraterion. Ichnos, 2017, 24, 51-63.	0.5	12
48	First evidence for locomotion in the Ediacara biota from the 565 Ma Mistaken Point Formation, Newfoundland: REPLY. Geology, 2010, 38, e224-e224.	4.4	11
49	Ichnology and palaeobiology of Phoebichnus trochoides from the Middle Jurassic of northâ€east England. Papers in Palaeontology, 2016, 2, 139-154.	1.5	11
50	Post-fossilization processes and their implications for understanding Ediacaran macrofossil assemblages. Geological Society Special Publication, 2017, 448, 251-269.	1.3	11
51	An Ediacaran pre-placozoan alternative to the pre-sponge route towards the Cambrian explosion of animal life: a comment on Cavalier-Smith 2017. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170148.	4.0	11
52	Applications of High-Resolution Sequence Stratigraphy to Reservoir Prediction and Flow Unit Definition in Aggradational Tidal Successions. , 1999, , 121-132.		11
53	Palaeoclimatic implications of Middle Jurassic (Bajocian) coniferous wood from the NeuquÃ©n Basin, west-central Argentina. Geological Society Special Publication, 2005, 252, 267-278.	1.3	10
54	The arrangement of possible muscle fibres in the Ediacaran taxon Haootia quadriformis. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142949.	2.6	10

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55	Three-Dimensional Morphology of Beaconites capronus from Northeast England. Ichnos, 2017, 24, 250-258.	0.5	10
56	Early Cambrian metazoans in fluvial environments, evidence of the non-marine Cambrian radiation: COMMENT. Geology, 2012, 40, e269-e269.	4.4	9
57	Palaeobiology of Schaubcylindrichnus heberti comb. nov. from the Lower Jurassic of Northeast England. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 449, 246-254.	2.3	9
58	A re-assessment of the taxonomy, palaeobiology and taphonomy of the rangeomorph organism Hapsidophyllas flexibilis from the Ediacaran of Newfoundland, Canada. Palaontologische Zeitschrift, 2021, 95, 187-207.	1.6	9
59	The Recognition ofOphiomorpha irregulaireon the Basis of Pellet Morphology: Restudy of Material from the Type Locality. Ichnos, 2012, 19, 185-189.	0.5	8
60	Three-dimensional morphology and palaeobiology of the trace fossil Dactyloidites jordii nov. isp. from the Carboniferous of England. Geobios, 2016, 49, 257-264.	1.4	8
61	The morphology and mode of formation of Neoeione igen. nov. from the Carboniferous of northern England. Palaontologische Zeitschrift, 2018, 92, 179-190.	1.6	8
62	Threeâ€dimensional morphological analysis of a Parahaentzscheliniaâ€like trace fossil. Papers in Palaeontology, 2017, 3, 241-258.	1.5	7
63	A quantitative and statistical discrimination of morphotaxa within the Ediacaran genus Palaeopascichnus. Papers in Palaeontology, 2021, 7, 657-673.	1.5	7
64	A MULTIVARIATE STATISTICAL ANALYSIS OF THE EDIACARAN RANGEOMORPH TAXABEOTHUKISANDCULMOFRONS. Palaios, 2020, 35, 495-511.	1.3	7
65	Charniodiscus and Arborea Are Separate Genera Within the Arboreomorpha: Using the Holotype of C. concentricus to Resolve a Taphonomic/Taxonomic Tangle. Frontiers in Earth Science, 2022, 9, .	1.8	6
66	Refining palaeoenvironmental analysis using integrated quantitative granulometry and palynology. Petroleum Geoscience, 2017, 23, 395-402.	1.5	5
67	Comment on â€œOphiomorpha irregulaire, Mesozoic trace fossil that is either well understood but rare in outcrop or poorly understood but common in coreâ€•by R.G. Bromley and G.K. Pedersen. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 284, 392-395.	2.3	4
68	Martin Brasier's contribution to the palaeobiology of the Ediacaranâ€“Cambrian transition. Geological Society Special Publication, 2017, 448, 179-193.	1.3	3
69	Were the First Trace Fossils Really Burrows or Could They Have Been Made by Sediment-Displacive Chemosymbiotic Organisms?. Life, 2022, 12, 136.	2.4	3
70	On the Adhesion of Sediment to Footwear and the Implications for Geoconservation. Geoheritage, 2019, 11, 1749-1756.	2.8	2
71	ReevaluaciÃ³n crÃtica del holotipo de Beothukis mistakensis, Ãºnico organismo rangeomorfo excepcionalmente preservado en Mistaken Point, Terranova, CanadÃ¡. Estudios Geologicos, 2019, 75, 117.	0.2	2
72	Contributions of Professor Martin Brasier to the study of early life, stratigraphy and biogeochemistry. Geological Society Special Publication, 2017, 448, 1-17.	1.3	0