R Ewan Fordyce

List of Publications by Year in descending order

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108 papers	4,167 citations	136950 32 h-index	128289 60 g-index
115 all docs	115 docs citations	115 times ranked	2624 citing authors

#	Article	IF	Citations
1	Radiation of Extant Cetaceans Driven by Restructuring of the Oceans. Systematic Biology, 2009, 58, 573-585.	5.6	315
2	The therian skull : a lexicon with emphasis on the odontocetes. Smithsonian Contributions To Zoology, 2009, , 1-249.	1.5	263
3	Retroposon analysis of major cetacean lineages: The monophyly of toothed whales and the paraphyly of river dolphins. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7384-7389.	7.1	239
4	Cetaceans Have Complex Brains for Complex Cognition. PLoS Biology, 2007, 5, e139.	5.6	239
5	Early Penguin Fossils, Plus Mitochondrial Genomes, Calibrate Avian Evolution. Molecular Biology and Evolution, 2006, 23, 1144-1155.	8.9	224
6	Baleen boom and bust: a synthesis of mysticete phylogeny, diversity and disparity. Royal Society Open Science, 2015, 2, 140434.	2.4	176
7	The Evolutionary History of Whales and Dolphins. Annual Review of Earth and Planetary Sciences, 1994, 22, 419-455.	11.0	175
8	Mitochondrial Phylogenetics and Evolution of Mysticete Whales. Systematic Biology, 2005, 54, 77-90.	5.6	143
9	Waipatia maerewhenua, new genus and new species (Waipatiidae, new family), an archaic Late Oligocene dolphin (Cetacea: Odontoceti: Platanistoidea) from New Zealand. Proceedings of the San Diego Society of Natural History, 1994, 29, 147-176.	0.0	114
10	Whale evolution and Oligocene southern ocean environments. Palaeogeography, Palaeoclimatology, Palaeoecology, 1980, 31, 319-336.	2.3	98
11	A New Marine Reptile (Sauropterygia) from New Zealand: Further Evidence for A Late Cretaceous Austral Radiation of Cryptoclidid Plesiosaurs. Palaeontology, 2002, 45, 557-575.	2.2	97
12	A monogenetic, Surtla-type, Surtseyan volcano from the Eocene-Oligocene Waiareka-Deborah volcanics, Otago, New Zealand: A model. Bulletin of Volcanology, 1989, 51, 281-298.	3.0	70
13	New fossil penguins (Aves, Sphenisciformes) from the Oligocene of New Zealand reveal the skeletal plan of stem penguins. Journal of Vertebrate Paleontology, 2012, 32, 235-254.	1.0	70
14	Raman spectroscopy of fossil bioapatite â€" A proxy for diagenetic alteration of the oxygen isotope composition. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 310, 62-70.	2.3	69
15	Gigantism Precedes Filter Feeding in Baleen Whale Evolution. Current Biology, 2018, 28, 1670-1676.e2.	3.9	69
16	Anatomy, feeding ecology, and ontogeny of a transitional baleen whale: a new genus and species of Eomysticetidae (Mammalia: Cetacea) from the Oligocene of New Zealand. PeerJ, 2015, 3, e1129.	2.0	65
17	The pygmy right whale Caperea marginata : the last of the cetotheres. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122645.	2.6	63
18	A rapid, nonâ€destructive method of detecting diagenetic alteration in fossil bone using Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 1533-1537.	2.5	56

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19	A new genus and species of eomysticetid (Cetacea: Mysticeti) and a reinterpretation of â€˜Mauicetusâ€™lophocephalusâ€...Marples, 1956: Transitional baleen whales from the upper Oligocene of New Zealand. Zoological Journal of the Linnean Society, 2015, 175, 607-660.	2.3	56
20	A claim in search of evidence: reply to Mangerâ€™s thermogenesis hypothesis of cetacean brain structure. Biological Reviews, 2008, 83, 417-440.	10.4	55
21	Ancient marine isoscapes and isotopic evidence of bulk-feeding by Oligocene cetaceans. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 400, 28-40.	2.3	54
22	A new Early Oligocene toothed â€˜baleenâ€™ whale (Mysticeti: Aetiocetidae) from western North America: one of the oldest and the smallest. Royal Society Open Science, 2015, 2, 150476.	2.4	53
23	Australodelphis mirus, a bizarre new toothless ziphiid-like fossil dolphin (Cetacea: Delphinidae) from the Pliocene of Vestfold Hills, East Antarctica. Antarctic Science, 2002, 14, 37-54.	0.9	47
24	Fossil Dolphin Otekaikea marplesi (Latest Oligocene, New Zealand) Expands the Morphological and Taxonomic Diversity of Oligocene Cetaceans. PLoS ONE, 2014, 9, e107972.	2.5	46
25	Juvenile morphology in baleen whale phylogeny. Die Naturwissenschaften, 2014, 101, 765-769.	1.6	43
26	The Earliest Gulp-Feeding Mysticete (Cetacea: Mysticeti) from the Oligocene of New Zealand. Journal of Mammalian Evolution, 2015, 22, 535-560.	1.8	43
27	Origins and evolution of Antarctic marine mammals. Geological Society Special Publication, 1989, 47, 269-281.	1.3	42
28	A new eomysticetid from the Oligocene Kokoamu Greensand of New Zealand and a review of the Eomysticetidae (Mammalia, Cetacea). Journal of Systematic Palaeontology, 2017, 15, 429-469.	1.5	42
29	The Cerebral Cortex of the Pygmy Hippopotamus, Hexaprotodon liberiensis (Cetartiodactyla,) Tj ETQq1 1 0.784314 rgBT /Over 670-700.	1.4	40
30	Disparate Heterochronic Processes in Baleen Whale Evolution. Evolutionary Biology, 2014, 41, 299-307.	1.1	40
31	Papahu taitapu, gen. et sp. nov., an early Miocene stem odontocete (Cetacea) from New Zealand. Journal of Vertebrate Paleontology, 2014, 34, 195-210.	1.0	37
32	The development of the circum-antarctic current and the evolution of the Mysticeti (mammalia:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.3	35
33	Rhabdosteid dolphins (Mammalia: Cetacea) from the Middle Miocene, Lake Frome area, South Australia. Alcheringa, 1983, 7, 27-40.	1.2	35
34	Penguin History and New Fossil Material from New Zealand. , 1990, , 419-446.		35
35	An archaeocete whale (Cetacea: Archaeoceti) from the Eocene Waihao Greensand, New Zealand. Journal of Vertebrate Paleontology, 1997, 17, 574-583.	1.0	34
36	An associated specimen ofCarcharodon angustidens(Chondrichthyes, Lamnidae) from the Late Oligocene of New Zealand, with comments onCarcharodoninterrelationships. Journal of Vertebrate Paleontology, 2001, 21, 730-739.	1.0	33

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37	Ultrastructure of enamel and dentine in extant dolphins (Cetacea: Delphinoidea and Inioidea). Zoomorphology, 2013, 132, 215-225.	0.8	33
38	Dental anomaly in a fossil squalodont dolphin from New Zealand, and the evolution of polydonty in whales. New Zealand Journal of Zoology, 1982, 9, 419-426.	1.1	29
39	A review of kentriodontine dolphins (Cetacea; Deiphinoidea; Kentriodontidae): Systematics and biogeography. Island Arc, 1994, 3, 486-492.	1.1	29
40	Mechanical properties of dental tissues in dolphins (Cetacea: Delphinoidea and Inioidea). Archives of Oral Biology, 2013, 58, 773-779.	1.8	28
41	Awamokoa tokarahi, a new basal dolphin in the Platanistoidea (late Oligocene, New Zealand). Journal of Systematic Palaeontology, 2017, 15, 365-386.	1.5	28
42	Alexandronectes zealandiensisgen. et sp. nov., a new aristonectine plesiosaur from the lower Maastrichtian of New Zealand. Journal of Vertebrate Paleontology, 2016, 36, e1054494.	1.0	27
43	Enamel Ultrastructure in Fossil Cetaceans (Cetacea: Archaeoceti and Odontoceti). PLoS ONE, 2015, 10, e0116557.	2.5	26
44	A new <scp>E</scp>omysticetid (<scp>M</scp>ammalia: <scp>C</scp>etacea) from the <scp>L</scp>ate <scp>O</scp>ligocene of <scp>N</scp>ew <scp>Z</scp>ealand and a reâ€evaluation of â€˜<scp>M</scp>auicetusâ€™ waitakiensis. Papers in Palaeontology, 2015, 1, 107-140.	1.5	24
45	Evolutionary drivers for flightless, wing-propelled divers in the Northern and Southern Hemispheres. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 400, 50-61.	2.3	23
46	Kaiika maxwelli, a new Early Eocene archaic penguin (Sphenisciformes, Aves) from Waihao Valley, South Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 2011, 54, 43-51.	1.8	22
47	Penguin heat-retention structures evolved in a greenhouse Earth. Biology Letters, 2011, 7, 461-464.	2.3	22
48	An update of monocot macrofossil data from New Zealand and Australia. Botanical Journal of the Linnean Society, 2015, 178, 394-420.	1.6	21
49	Elemental and chemical characterization of dolphin enamel and dentine using X-ray and Raman microanalyzes (Cetacea: Delphinoidea and Inioidea). Journal of Structural Biology, 2014, 185, 58-68.	2.8	20
50	A new tropical Oligocene dolphin from MontaÃ±ita/OlÃ³n, Santa Elena, Ecuador. PLoS ONE, 2017, 12, e0188380.	2.5	20
51	A palaeobiogeographical synthesis of Australasian Mesozoic marine tetrapods. Alcheringa, 2018, 42, 461-486.	1.2	20
52	A Link No Longer Missing: New Evidence for the Cetotheriid Affinities of Caperea. PLoS ONE, 2016, 11, e0164059.	2.5	20
53	General aspects of the evolutionary history of whales and dolphins. Island Arc, 1994, 3, 373-391.	1.1	19
54	Anatomy and phylogeny of the large shark-toothed dolphinPhoberodon arctirostrisCabrera, 1926 (Cetacea: Odontoceti) from the early Miocene of Patagonia (Argentina). Zoological Journal of the Linnean Society, 2019, 185, 511-542.	2.3	19

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55	Biological Plasticity in Penguin Heatâ€Retention Structures. Anatomical Record, 2012, 295, 249-256.	1.4	17
56	Quaternary Fossil Gray Whales from Taiwan. Paleontological Research, 2014, 18, 82-93.	1.0	17
57	Anatomy of nasal complex in the southern right whale, <scp>E</scp>ubalaena australis (<scp>C</scp>etacea, <scp>M</scp>ysticeti). Journal of Anatomy, 2015, 226, 81-92.	1.5	17
58	Trace fossil evidence of predation upon bone-eating worms on a baleen whale skeleton from the Oligocene of New Zealand. Lethaia, 2015, 48, 326-331.	1.4	17
59	Cetacean Evolution. , 2018, , 180-185.		17
60	A new archaic baleen whale Toipahautea waitaki (early Late Oligocene, New Zealand) and the origins of crown Mysticeti. Royal Society Open Science, 2018, 5, 172453.	2.4	17
61	Cetacean Evolution. , 2009, , 201-207.		16
62	Ancestorâ€“descendant relationships in evolution: origin of the extant pygmy right whale, Caperea marginata. Biology Letters, 2015, 11, 20140875.	2.3	16
63	Mysticetes baring their teeth: a new fossil whale, Mammalodon hakataramea, from the Southwest Pacific. Memoirs of Museum Victoria, 2016, 74, 107-116.	0.6	16
64	Cetacean Fossil Record. , 2009, , 207-215.		15
65	The heterothermic loophole exploited by penguins. Australian Journal of Zoology, 2007, 55, 317.	1.0	14
66	Juvenile morphology: A clue to the origins of the most mysterious of mysticetes?. Die Naturwissenschaften, 2013, 100, 257-261.	1.6	14
67	Historical Biogeography of Delphininae Dolphins and Related Taxa (Artiodactyla: Delphinidae). Journal of Mammalian Evolution, 2018, 25, 241-259.	1.8	13
68	Problematic Early Oligocene toothed whale (Cetacea, ?Mysticeti) from Waikari, North Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 1989, 32, 395-400.	1.8	12
69	Paleocene isocrinids (Echinodermata: Crinoidea) from the Kauru Formation, South Island, New Zealand. Journal of Paleontology, 1994, 68, 135-141.	0.8	12
70	Megalampris keyesi, a giant moonfish (Teleostei, Lampridiformes) from the Late Oligocene of New Zealand. Journal of Vertebrate Paleontology, 2006, 26, 544-551.	1.0	12
71	Dental erosion in South Atlantic dolphins (Cetacea: Delphinidae): A macro and microscopic approach. Marine Mammal Science, 2013, 29, 338-347.	1.8	12
72	Enamel Microstructure in Cetacea: a Case Study in Evolutionary Loss of Complexity. Journal of Mammalian Evolution, 2020, 27, 789-805.	1.8	11

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73	A new billfish (Perciformes, Xiphioidei) from the late Oligocene of New Zealand. Journal of Vertebrate Paleontology, 2012, 32, 27-34.	1.0	10
74	A possible Late Oligoceneâ€“Early Miocene rocky shoreline on Otago Schist. New Zealand Journal of Geology, and Geophysics, 2014, 57, 185-194.	1.8	10
75	Royal Society Te ApÄ•rangi and the pursuit of research excellence. Journal of the Royal Society of New Zealand, 2018, 48, 63-63.	1.9	10
76	Trace fossils from Ohika Formation (Pororari Group, Lower Cretaceous), lower Buller Gorge, Buller, New Zealand. New Zealand Journal of Geology, and Geophysics, 1980, 23, 121-124.	1.8	9
77	A new cancrid crab from New Zealand. New Zealand Journal of Geology, and Geophysics, 1996, 39, 509-513.	1.8	9
78	On the Unnecessary and Misleading Taxon â€œCetartiodactylaâ€• Journal of Mammalian Evolution, 2022, 29, 93-97.	1.8	9
79	Records of two Paleogene turtles and notes on other Tertiary reptilian remains from New Zealand. New Zealand Journal of Geology, and Geophysics, 1979, 22, 737-741.	1.8	8
80	Late Eocene archaeocete whale (Archaeoceti: Dorudontinae) from Waihao, South Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 1985, 28, 351-357.	1.8	8
81	Odontoceti. , 2008, , 566-606.		7
82	Extensively remodeled, fractured cetacean tympanic bullae show that whales can survive traumatic injury to the ears. Journal of Anatomy, 2016, 228, 125-136.	1.5	7
83	A redescription and re-evaluation ofKekenodon onamata(Mammalia: Cetacea), a late-surviving archaeocete from the Late Oligocene of New Zealand. Zoological Journal of the Linnean Society, 2022, 196, 1637-1670.	2.3	7
84	Gigantic mysticete predators roamed the Eocene Southern Ocean. Antarctic Science, 2019, 31, 98-104.	0.9	6
85	Redescription of Early Miocene dolphinPhocaenopsis mantelliHuxley, 1859 (Odontocetiincertae sedis). New Zealand Journal of Geology, and Geophysics, 1981, 24, 563-568.	1.8	5
86	The Strangest Bird. Scientific American, 2012, 307, 56-61.	1.0	5
87	Hearing from the ocean and into the river: the evolution of the inner ear of Platanistoidea (Cetacea:) Tj ETQq1 1 0.784314 rgBT /Over	2.0	5
88	Neoceti. , 2009, , 758-763.		4
89	Fossil Sites, Noted. , 2009, , 459-466.		4
90	Observations of a New Zealand dolphin (Cephalorhynchus hectori) breathing via its mouth. Marine Mammal Science, 2017, 33, 350-355.	1.8	4

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91	Rautangaroa, a new genus of feather star (Echinodermata, Crinoidea) from the Oligocene of New Zealand. Journal of Paleontology, 2018, 92, 872-882.	0.8	4
92	Dolphin mandible (Delphinidae) from the Waipipian Stage (Pliocene), Waihi Beach, Taranaki, New Zealand (Note). New Zealand Journal of Geology, and Geophysics, 1987, 30, 321-323.	1.8	3
93	A presumed stereospondyl (Amphibia, Stereospondyli) from the marine Triassic of Titiroa Stream, Mataura valley, Southland, New Zealand. Journal of the Royal Society of New Zealand, 2003, 33, 301-306.	1.9	3
94	The first pre-Pleistocene cetacean from Madagascar, western Indian Ocean. Journal of African Earth Sciences, 2019, 151, 184-188.	2.0	3
95	A new early Miocene archaic dolphin (Odontoceti, Cetacea) from New Zealand, and brain evolution of the Odontoceti. New Zealand Journal of Geology, and Geophysics, 2023, 66, 59-73.	1.8	3
96	Antarctic glaciation recorded in Early Miocene New Zealand foraminifera. Marine Micropaleontology, 2012, 92-93, 52-60.	1.2	2
97	Evidence for a krillâ€rich diet from nonâ€destructive analyses of penguin bone. Journal of Avian Biology, 2013, 44, 203-207.	1.2	2
98	A Late Triassic chimaeroid egg capsule from New Zealand: early evidence of chimaeroid reproductive mode from the eastern margin of Gondwana. Journal of Systematic Palaeontology, 2015, 13, 371-375.	1.5	2
99	A fossil sea turtle (Testudines: Pan-Cheloniidae) from the upper Oligocene Pomahaka Formation, New Zealand. Alcheringa, 2017, 41, 134-140.	1.2	2
100	The 150-year voyage of the Journal of the Royal Society of New Zealand. Journal of the Royal Society of New Zealand, 2017, 47, 219-220.	1.9	1
101	Matapanui, a replacement name for Matapa Boessenecker & Fordyce, 2016. Journal of Systematic Palaeontology, 2017, 15, 471-471.	1.5	1
102	Anatomy of the Dolphins-Insights into Body Structure and Function.Anatomy of the Dolphins-Insights into Body Structure and Function. Bruno Cozzi, Stefan Huggenberger & Helmut OelschlÃger. Elsevier Academic Press, 438 pp, ISBN 978-0-12-407229-9.. Ameghiniana, 2018, 55, 230-231.	0.7	1
103	The Kentriodontidae and the Origin of the Delphinoids. The Paleontological Society Special Publications, 1996, 8, 99-99.	0.0	0
104	Oligocene Whales and Dolphins from the Southwest Pacific. The Paleontological Society Special Publications, 1996, 8, 125-125.	0.0	0
105	Archaic Baleen Whales from the Oligocene-Earliest Miocene of the Southwest Pacific. The Paleontological Society Special Publications, 1996, 8, 188-188.	0.0	0
106	An Early Triassic basal actinopterygian fish (Osteichthyes) from D'Urville Island, New Zealand. New Zealand Journal of Geology, and Geophysics, 2014, 57, 351-354.	1.8	0
107	Widening our horizons. Journal of the Royal Society of New Zealand, 2019, 49, 71-78.	1.9	0
108	CT-scan description of Alexandronectes zealandiensis (Elasmosauridae, Aristonectinae), with comments on the elasmosaurid internal cranial features. Journal of Vertebrate Paleontology, 2021, 41, .	1.0	0