

Michael I Coates

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75
papers

3,902
citations

35
h-index

61
g-index

85
ext. papers

4,459
ext. citations

10.5
avg, IF

5.58
L-index

#	Paper	IF	Citations
75	A new time-scale for ray-finned fish evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 489-98	4.4	248
74	Polydactyly in the earliest known tetrapod limbs. <i>Nature</i> , 1990 , 347, 66-69	50.4	242
73	Early tetrapod relationships revisited. <i>Biological Reviews</i> , 2003 , 78, 251-345	13.5	215
72	A lamprey from the Devonian period of South Africa. <i>Nature</i> , 2006 , 443, 981-4	50.4	185
71	Dates, nodes and character conflict: Addressing the Lissamphibian origin problem. <i>Journal of Systematic Palaeontology</i> , 2007 , 5, 69-122	2.3	155
70	End-Devonian extinction and a bottleneck in the early evolution of modern jawed vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10131-5	11.5	151
69	Acanthodes and shark-like conditions in the last common ancestor of modern gnathostomes. <i>Nature</i> , 2012 , 486, 247-50	50.4	141
68	Fish-like gills and breathing in the earliest known tetrapod. <i>Nature</i> , 1991 , 352, 234-236	50.4	131
67	The postcranial skeleton of the Devonian tetrapod <i>Tulerpeton curtum</i> Lebedev. <i>Zoological Journal of the Linnean Society</i> , 1995 , 114, 307-348	2.4	120
66	Evolutionary patterns in early tetrapods. I. Rapid initial diversification followed by decrease in rates of character change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 2107-11	4.4	116
65	Fins to limbs: what the fossils say. <i>Evolution & Development</i> , 2002 , 4, 390-401	2.6	102
64	A new technique for identifying sequence heterochrony. <i>Systematic Biology</i> , 2005 , 54, 230-40	8.4	97
63	Endocranial preservation of a Carboniferous actinopterygian from Lancashire, UK, and the interrelationships of primitive actinopterygians. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 435-462	5.8	86
62	Fins, limbs, and tails: outgrowths and axial patterning in vertebrate evolution. <i>BioEssays</i> , 1998 , 20, 371-381	3.1	85
61	Analyzing developmental sequences within a phylogenetic framework. <i>Systematic Biology</i> , 2002 , 51, 478-91	8.4	84
60	Evolutionary origins of the vertebrate dentition: phylogenetic patterns and developmental evolution. <i>European Journal of Oral Sciences</i> , 1998 , 106 Suppl 1, 482-500	2.3	84
59	The origin of vertebrate limbs. <i>Development (Cambridge)</i> , 1994 , 1994, 169-180	6.6	82

58	The early evolution of the tetrapod humerus. <i>Science</i> , 2004 , 304, 90-3	33.3	78
57	Analyzing evolutionary patterns in amniote embryonic development. <i>Evolution & Development</i> , 2002 , 4, 292-302	2.6	69
56	Behavioral evidence for the evolution of walking and bounding before terrestriality in sarcopterygian fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 21146-51	11.5	67
55	The evolution of paired fins. <i>Theory in Biosciences</i> , 2003 , 122, 266-287	1.3	67
54	Ever Since Owen: Changing Perspectives on the Early Evolution of Tetrapods. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008 , 39, 571-592	13.5	66
53	The most primitive osteichthyan braincase?. <i>Nature</i> , 2000 , 403, 185-8	50.4	61
52	Hagfish from the Cretaceous Tethys Sea and a reconciliation of the morphological-molecular conflict in early vertebrate phylogeny. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2146-2151	11.5	56
51	First discovery of a primitive coelacanth fin fills a major gap in the evolution of lobed fins and limbs. <i>Evolution & Development</i> , 2007 , 9, 329-37	2.6	51
50	A supertree of early tetrapods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 2507-16	4.4	51
49	Branching, segmentation and the metapterygial axis: pattern versus process in the vertebrate limb. <i>BioEssays</i> , 2002 , 24, 460-5	4.1	50
48	From Haeckel to event-pairing: the evolution of developmental sequences. <i>Theory in Biosciences</i> , 2002 , 121, 297-320	1.3	46
47	A symmoriiform chondrichthyan braincase and the origin of chimaeroid fishes. <i>Nature</i> , 2017 , 541, 208-215	50.4	45
46	A NEW RECONSTRUCTION OF ONYCHOSELACHE TRAQUAIRI, COMMENTS ON EARLY CHONDRICHTHYAN PECTORAL GIRDLES AND HYBODONTIFORM PHYLOGENY. <i>Palaeontology</i> , 2007 , 50, 1421-1446	2.9	45
45	Evolutionary patterns in early tetrapods. II. Differing constraints on available character space among clades. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 2113-8	4.4	43
44	Limb evolution. Fish fins or tetrapod limbs--a simple twist of fate?. <i>Current Biology</i> , 1995 , 5, 844-8	6.3	43
43	Spines and tissues of ancient sharks. <i>Nature</i> , 1998 , 396, 729-730	50.4	39
42	Nice snake, shame about the legs. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 503-507	10.9	38
41	A newly recognized fossil coelacanth highlights the early morphological diversification of the clade. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 245-50	4.4	36

40	An early chondrichthyan and the evolutionary assembly of a shark body plan. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	34
39	Vertebrate Axial and Appendicular Patterning: The Early Development of Paired Appendages. <i>American Zoologist</i> , 1999 , 39, 676-685		34
38	Endoskeletal structure in (Osteichthyes, Actinopterygii), An early ray-finned fish. <i>Palaeontology</i> , 2015 , 58, 849-870	2.9	30
37	Comparative methods in developmental biology. <i>Zoology</i> , 2001 , 104, 278-83	1.7	30
36	Chondrichthyan-like scales from the Middle Ordovician of Australia. <i>Palaeontology</i> , 2012 , 55, 243-247	2.9	29
35	Some problems with typological thinking in evolution and development. <i>Evolution & Development</i> , 1999 , 1, 5-7	2.6	25
34	Phylotypic stage theory. <i>Trends in Ecology and Evolution</i> , 1998 , 13, 158	10.9	22
33	The oldest ionoscopiform from China sheds new light on the early evolution of halecomorph fishes. <i>Biology Letters</i> , 2014 , 10, 20140204	3.6	21
32	The long-rostrumed elasmobranch <i>Bandringa</i> Zangerl, 1969, and taphonomy within a Carboniferous shark nursery. <i>Journal of Vertebrate Paleontology</i> , 2014 , 34, 22-33	1.7	21
31	First shark from the Late Devonian (Frasnian) Gogo Formation, Western Australia sheds new light on the development of tessellated calcified cartilage. <i>PLoS ONE</i> , 2015 , 10, e0126066	3.7	21
30	Embryonic development of the axial column in the little skate, <i>Leucoraja erinacea</i> . <i>Journal of Morphology</i> , 2017 , 278, 300-320	1.6	19
29	Fossil juvenile coelacanths from the Devonian of South Africa shed light on the order of character acquisition in actinistians. <i>Zoological Journal of the Linnean Society</i> , 2015 , 175, 360-383	2.4	19
28	New Palaeontological Contributions to Limb Ontogeny and Phylogeny 1991 , 325-337		19
27	Styracopterid (Actinopterygii) ontogeny and the multiple origins of post-Hangenberg deep-bodied fishes. <i>Zoological Journal of the Linnean Society</i> , 2013 , 169, 156-199	2.4	18
26	Early tetrapod evolution. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 327-328	10.9	18
25	Taxonomic revision of <i>Plesiofuro mingshuica</i> from the Lower Triassic of northern Gansu, China, and the relationships of early neopterygian clades. <i>Journal of Vertebrate Paleontology</i> , 2015 , 35, e1001515	1.7	17
24	The origins of adipose fins: an analysis of homoplasy and the serial homology of vertebrate appendages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20133120	4.4	17
23	The early elasmobranch : phylogenetic relationships, ecomorphology and a new time-scale for shark evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191336	4.4	16

22	Ancestors and homology (the origin of the tetrapod limb). <i>Acta Biotheoretica</i> , 1993 , 41, 411-24	1.1	16
21	The systematics of the Mongolepidida (Chondrichthyes) and the Ordovician origins of the clade. <i>PeerJ</i> , 2016 , 4, e1850	3.1	16
20	Upper Ordovician chondrichthyan-like scales from North America. <i>Palaeontology</i> , 2015 , 58, 691-704	2.9	15
19	First tooth-set outside the jaws in a vertebrate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 775-9	4.4	15
18	Chondrenchelys problematica (Traquair, 1888) redescribed: a Lower Carboniferous, eel-like holocephalan from Scotland. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2014 , 105, 35-59	0.9	14
17	A fish and tetrapod fauna from Romer's Gap preserved in Scottish Tournaisian floodplain deposits. <i>Palaeontology</i> , 2019 , 62, 225-253	2.9	13
16	The tetrapod <i>Caerorhachis bairdi</i> Holmes and Carroll from the Lower Carboniferous of Scotland. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2001 , 92, 229-261		13
15	A symmoriiform from the Late Devonian of Morocco demonstrates a derived jaw function in ancient chondrichthyans. <i>Communications Biology</i> , 2020 , 3, 681	6.7	13
14	Non-ammocoete larvae of Palaeozoic stem lampreys. <i>Nature</i> , 2021 , 591, 408-412	50.4	13
13	High-latitude Chondrichthyans from the Late Devonian (Famennian) Witpoort formation of South Africa. <i>Palaontologische Zeitschrift</i> , 2015 , 89, 147-169	1.2	10
12	Embryonic origin of the gnathostome vertebral skeleton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	9
11	<i>Elegestolepis</i> and its kin, the earliest monodontode chondrichthyans. <i>Journal of Vertebrate Paleontology</i> , 2017 , 37, e1245664	1.7	9
10	High-performance suction feeding in an early elasmobranch. <i>Science Advances</i> , 2019 , 5, eaax2742	14.3	6
9	This strange little palaeoniscid's a new early actinopterygian genus, and commentary on pectoral fin conditions and function. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018 , 109, 15-31	0.9	6
8	The neurocranium of the Lower Carboniferous shark <i>Tristychius arcuatus</i> (Agassiz, 1837). <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017 , 108, 19-35	0.9	5
7	Feeding structures in the ray-finned fish <i>Eurynotus crenatus</i> (Actinopterygii: Eurynotiformes): implications for trophic diversification among Carboniferous actinopterygians. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018 , 109, 33-47	0.9	4
6	From Haeckel to event-pairing: the evolution of developmental sequences. <i>Theory in Biosciences</i> , 2002 , 121, 297-320	1.3	2
5	The postcranial anatomy of <i>Whatcheeria deltae</i> and its implications for the family Whatcheeriiidae. <i>Zoological Journal of the Linnean Society</i> , 2021 , 193, 700-745	2.4	2

4	Using patterns of fin and limb phylogeny to test developmental-evolutionary scenarios. <i>Novartis Foundation Symposium</i> , 2007 , 284, 245-55; discussion 255-61		2
3	Fish rising. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 10-11	10.9	1
2	There's a ratfish in our cellar!. <i>Geology Today</i> , 1997 , 13, 20-23	0.4	1
1	The last word on a lost world?. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 425-426	10.9	0