

Michael I Coates

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8542324/publications.pdf>

Version: 2024-02-01

80
papers

4,855
citations

94269

37
h-index

98622

67
g-index

85
all docs

85
docs citations

85
times ranked

2665
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydactyly in the earliest known tetrapod limbs. <i>Nature</i> , 1990, 347, 66-69.	13.7	299
2	A new time-scale for ray-finned fish evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 489-498.	1.2	298
3	Early tetrapod relationships revisited. <i>Biological Reviews</i> , 2003, 78, 251-345.	4.7	246
4	A lamprey from the Devonian period of South Africa. <i>Nature</i> , 2006, 443, 981-984.	13.7	219
5	Dates, nodes and character conflict: Addressing the Lissamphibian origin problem. <i>Journal of Systematic Palaeontology</i> , 2007, 5, 69-122.	0.6	186
6	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, 10131-10135.	3.3	183
7	Acanthodes and shark-like conditions in the last common ancestor of modern gnathostomes. <i>Nature</i> , 2012, 486, 247-250.	13.7	159
8	Fish-like gills and breathing in the earliest known tetrapod. <i>Nature</i> , 1991, 352, 234-236.	13.7	148
9	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, 2107-2111.	1.2	146
10	The postcranial skeleton of the Devonian tetrapod <i>Tulerpeton curtum</i> Lebedev. <i>Zoological Journal of the Linnean Society</i> , 1995, 114, 307-348.	1.0	144
11	The origin of vertebrate limbs. <i>Development (Cambridge)</i> , 1994, 1994, 169-180.	1.2	125
12	Fins to limbs: what the fossils say1. <i>Evolution & Development</i> , 2002, 4, 390-401.	1.1	113
13	A New Technique for Identifying Sequence Heterochrony. <i>Systematic Biology</i> , 2005, 54, 230-240.	2.7	106
14	Fins, limbs, and tails: outgrowths and axial patterning in vertebrate evolution. <i>BioEssays</i> , 1998, 20, 371-381.	1.2	102
15	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.	1.8	102
16	Evolutionary origins of the vertebrate dentition: phylogenetic patterns and developmental evolution. <i>European Journal of Oral Sciences</i> , 1998, 106, 482-500.	0.7	97
17	Hagfish from the Cretaceous Tethys Sea and a reconciliation of the morphological and 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.	3.3	97
18	Analyzing Developmental Sequences Within a Phylogenetic Framework. <i>Systematic Biology</i> , 2002, 51, 478-491.	2.7	91

#	ARTICLE	IF	CITATIONS
19	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, 21146-21151.	3.3	89
20	The evolution of paired fins. <i>Theory in Biosciences</i> , 2003, 122, 266-287.	0.6	87
21	The Early Evolution of the Tetrapod Humerus. <i>Science</i> , 2004, 304, 90-93.	6.0	86
22	Ever Since Owen: Changing Perspectives on the Early Evolution of Tetrapods. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008, 39, 571-592.	3.8	82
23	Analyzing evolutionary patterns in amniote embryonic development*. <i>Evolution & Development</i> , 2002, 4, 292-302.	1.1	79
24	The most primitive osteichthyan braincase?. <i>Nature</i> , 2000, 403, 185-188.	13.7	69
25	A symmoriiform chondrichthyan braincase and the origin of chimaeroid fishes. <i>Nature</i> , 2017, 541, 208-211.	13.7	65
26	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, 2113-2118.	1.2	59
27	An early chondrichthyan and the evolutionary assembly of a shark body plan. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172418.	1.2	58
28	Branching, segmentation and the metapterygial axis: pattern versus process in the vertebrate limb. <i>BioEssays</i> , 2002, 24, 460-465.	1.2	57
29	A supertree of early tetrapods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2507-2516.	1.2	57
30	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, 329-337.	1.1	57
31	A NEW RECONSTRUCTION OF <i>ONYCHOSELACHE TRAQUAIRI</i> , COMMENTS ON EARLY CHONDRICHTHYAN PECTORAL GIRDLES AND HYBODONTIFORM PHYLOGENY. <i>Palaeontology</i> , 2007, 50, 1421-1446.	1.0	54
32	From Haeckel to event-pairing: the evolution of developmental sequences. <i>Theory in Biosciences</i> , 2002, 121, 297-320.	0.6	51
33	Limb Evolution: Fish fins or tetrapod limbs – a simple twist of fate?. <i>Current Biology</i> , 1995, 5, 844-848.	1.8	48
34	Nice snake, shame about the legs. <i>Trends in Ecology and Evolution</i> , 2000, 15, 503-507.	4.2	48
35	Spines and tissues of ancient sharks. <i>Nature</i> , 1998, 396, 729-730.	13.7	43
36	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, 245-250.	1.2	42

#	ARTICLE	IF	CITATIONS
37	Vertebrate Axial and Appendicular Patterning: The Early Development of Paired Appendages. <i>American Zoologist</i> , 1999, 39, 676-685.	0.7	41
38	The early elasmobranch <i>Phoebodus</i> : phylogenetic relationships, ecomorphology and a new time-scale for shark evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191336.	1.2	41
39	Non-ammocoete larvae of Palaeozoic stem lampreys. <i>Nature</i> , 2021, 591, 408-412.	13.7	40
40	Chondrichthyan-like scales from the Middle Ordovician of Australia. <i>Palaeontology</i> , 2012, 55, 243-247.	1.0	38
41	Embryonic development of the axial column in the little skate, <i>Leucoraja erinacea</i> . <i>Journal of Morphology</i> , 2017, 278, 300-320.	0.6	37
42	Endoskeletal structure in <i>Cheirolepis</i> (Osteichthyes, Actinopterygii), An early ray-finned fish. <i>Palaeontology</i> , 2015, 58, 849-870.	1.0	36
43	Comparative methods in developmental biology. <i>Zoology</i> , 2001, 104, 278-283.	0.6	35
44	A symmoriiform from the Late Devonian of Morocco demonstrates a derived jaw function in ancient chondrichthyans. <i>Communications Biology</i> , 2020, 3, 681.	2.0	30
45	Some problems with typological thinking in evolution and development. <i>Evolution & Development</i> , 1999, 1, 5-7.	1.1	29
46	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.	1.0	29
47	The long-rostrum elasmobranch <i>Bandringa</i> Zangerl, 1969, and taphonomy within a Carboniferous shark nursery. <i>Journal of Vertebrate Paleontology</i> , 2014, 34, 22-33.	0.4	27
48	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.	1.1	27
49	The systematics of the Mongolepidida (Chondrichthyes) and the Ordovician origins of the clade. <i>PeerJ</i> , 2016, 4, e1850.	0.9	27
50	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.	1.2	26
51	New Palaeontological Contributions to Limb Ontogeny and Phylogeny. , 1991, , 325-337.		25
52	Phylogenetic stage theory. <i>Trends in Ecology and Evolution</i> , 1998, 13, 158.	4.2	25
53	The oldest ionoscopiform from China sheds new light on the early evolution of halecomorph fishes. <i>Biology Letters</i> , 2014, 10, 20140204.	1.0	24
54	Early tetrapod evolution. <i>Trends in Ecology and Evolution</i> , 2000, 15, 327-328.	4.2	22

#	ARTICLE	IF	CITATIONS
55	<i>Upper Ordovician chondrichthyan-like scales from North America</i> . <i>Palaeontology</i> , 2015, 58, 691-704.	1.0	22
56	<i>Chondrenchelys problematica</i> (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.	0.3	21
57	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.	1.0	21
58	Editorial: Chronicling the birth of a discipline. <i>Evolution & Development</i> , 1999, 1, 1-2.	1.1	20
59	Ancestors and homology. <i>Acta Biotheoretica</i> , 1993, 41, 411-424.	0.7	19
60	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.	0.4	18
61	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.	1.0	16
62	First tooth-set outside the jaws in a vertebrate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 775-779.	1.2	16
63	Embryonic origin of the gnathostome vertebral skeleton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20172121.	1.2	16
64	High-performance suction feeding in an early elasmobranch. <i>Science Advances</i> , 2019, 5, eaax2742.	4.7	16
65	A fish and tetrapod fauna from Romer's Gap preserved in Scottish Tournaisian floodplain deposits. <i>Palaeontology</i> , 2019, 62, 225-253.	1.0	15
66	<i>Elegestolepis</i> and its kin, the earliest monodontode chondrichthyans. <i>Journal of Vertebrate Paleontology</i> , 2017, 37, e1245664.	0.4	14
67	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.	0.3	14
68	From Haeckel to event-pairing: the evolution of developmental sequences. <i>Theory in Biosciences</i> , 2002, 121, 297-320.	0.6	12
69	'This strange little palaeoniscid': 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.	0.3	12
70	High-latitude Chondrichthyans from the Late Devonian (Famennian) Witpoort formation of South Africa. <i>Palaontologische Zeitschrift</i> , 2015, 89, 147-169.	0.8	11
71	Beyond the Age of Fishes. <i>Nature</i> , 2009, 458, 413-414.	13.7	10
72	The postcranial anatomy of <i>Whatcheeria deltae</i> and its implications for the family WhatcheerIIDae. <i>Zoological Journal of the Linnean Society</i> , 2021, 193, 700-745.	1.0	7

#	ARTICLE	IF	CITATIONS
73	Skeletal and soft tissue completeness of the acanthodian fossil record. <i>Palaeontology</i> , 2022, 65, .	1.0	7
74	The neurocranium of the Lower Carboniferous shark <i>Tristychius arcuatus</i> (Agassiz,). <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 19-35.	0.3	6
75	Plenty of fish in the tree. <i>Nature</i> , 2017, 549, 167-169.	13.7	3
76	Using Patterns of Fin and Limb Phylogeny to Test Developmental-Evolutionary Scenarios. <i>Novartis Foundation Symposium</i> , 2007, 284, 245-261.	1.2	2
77	There's a ratfish in our cellar!. <i>Geology Today</i> , 1997, 13, 20-23.	0.3	1
78	The last word on a lost world?. <i>Trends in Ecology and Evolution</i> , 2005, 20, 425-426.	4.2	1
79	Fish rising. <i>Trends in Ecology and Evolution</i> , 2012, 27, 10-11.	4.2	1
80	Editorial: Birds, trees, and stems. <i>Evolution & Development</i> , 1999, 1, 137-137.	1.1	0