

Zerina Johanson

List of Publications by Year in descending order

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121
papers

2,865
citations

186209

28
h-index

223716

46
g-index

127
all docs

127
docs citations

127
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Osteolepiforms and the ancestry of tetrapods. <i>Nature</i> , 1998, 395, 792-794.	13.7	144
2	Fish fingers: digit homologues in sarcopterygian fish fins. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 757-768.	0.6	117
3	Separate Evolutionary Origins of Teeth from Evidence in Fossil Jawed Vertebrates. <i>Science</i> , 2003, 299, 1235-1236.	6.0	112
4	Open data and digital morphology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170194.	1.2	103
5	Development of teeth and jaws in the earliest jawed vertebrates. <i>Nature</i> , 2012, 491, 748-751.	13.7	98
6	Copulation in antiarch placoderms and the origin of gnathostome internal fertilization. <i>Nature</i> , 2015, 517, 196-199.	13.7	94
7	Devonian arthrodire embryos and the origin of internal fertilization in vertebrates. <i>Nature</i> , 2009, 457, 1124-1127.	13.7	75
8	Origin and evolution of gnathostome dentitions: a question of teeth and pharyngeal denticles in placoderms. <i>Biological Reviews</i> , 2005, 80, 303-345.	4.7	63
9	A new tristichopterid (Osteolepiformes: Sarcopterygii) from the Mandagery Sandstone (Late Devonian), <i>Journal of Vertebrate Sciences</i> , 1997, 88, 39-68.	1.0	59
10	Second tristichopterid (Sarcopterygii, Osteolepiformes) from the Upper Devonian of Canowindra, New South Wales, Australia, and phylogeny of the Tristichopteridae. <i>Journal of Vertebrate Paleontology</i> , 1997, 17, 653-673.	0.4	59
11	A complete primitive rhizodont from Australia. <i>Nature</i> , 1998, 394, 569-573.	13.7	59
12	Evolution and development of the vertebrate neck. <i>Journal of Anatomy</i> , 2013, 222, 67-78.	0.9	59
13	Sox2+ progenitors in sharks link taste development with the evolution of regenerative teeth from denticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14769-14774.	3.3	59
14	Devonian rhizodontids and tristichopterids (Sarcopterygii; Tetrapodomorpha) from East Gondwana. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2001, 92, 43-74.	1.0	55
15	Developmental plasticity and disparity in early dipnoan (lungfish) dentitions. <i>Evolution & Development</i> , 2006, 8, 331-349.	1.1	52
16	Development and Evolution of Dentition Pattern and Tooth Order in the Skates And Rays (Batoidea); <i>Journal of Morphology</i> , 2011, 271, 1-12.	1.1	49
17	Placoderm fishes, pharyngeal denticles, and the vertebrate dentition. <i>Journal of Morphology</i> , 2003, 257, 289-307.	0.6	46
18	The late Devonian lungfish <i>Soederberghia</i> (Sarcopterygii, Dipnoi) from Australia and North America, and its biogeographical implications. <i>Journal of Vertebrate Paleontology</i> , 2001, 21, 1-12.	0.4	43

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19	Pelvic and reproductive structures in placoderms (stem gnathostomes). <i>Biological Reviews</i> , 2015, 90, 467-501.	4.7	43
20	Form of the trilobite digestive system: alimentary structures in <i>Pterocephalia</i> . <i>Journal of Paleontology</i> , 1994, 68, 294-305.	0.5	42
21	Oldest coelacanth, from the Early Devonian of Australia. <i>Biology Letters</i> , 2006, 2, 443-446.	1.0	40
22	Replacing the first-generation dentition in pufferfish with a unique beak. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8179-8184.	3.3	40
23	Pelvic claspers confirm chondrichthyan-like internal fertilization in arthrodires. <i>Nature</i> , 2009, 460, 888-889.	13.7	36
24	Endoskeletal structure in <i>Cheirolepis</i> (Osteichthyes, Actinopterygii), An early ray-finned fish. <i>Palaeontology</i> , 2015, 58, 849-870.	1.0	36
25	The phyllolepid placoderm <i>Cowralepis mclachlani</i> : Insights into the evolution of feeding mechanisms in jawed vertebrates. <i>Journal of Morphology</i> , 2009, 270, 775-804.	0.6	35
26	New <i>Remigolepis</i> (Placodermi; Antiarchi) from Canowindra, New South Wales, Australia. <i>Geological Magazine</i> , 1997, 134, 813-846.	0.9	34
27	The English Chalk and London Clay: two remarkable British bony fish <i>Lagerstätten</i> . <i>Geological Society Special Publication</i> , 2016, 430, 165-200.	0.8	34
28	Placoderm branchial and hypobranchial muscles and origins in jawed vertebrates. <i>Journal of Vertebrate Paleontology</i> , 2003, 23, 735-749.	0.4	32
29	Evolution and development of the synarcual in early vertebrates. <i>Zoomorphology</i> , 2013, 132, 95-110.	0.4	32
30	Evolutionary origins and development of saw-teeth on the sawfish and sawshark rostrum (Elasmobranchii; Chondrichthyes). <i>Royal Society Open Science</i> , 2015, 2, 150189.	1.1	32
31	Spatially restricted dental regeneration drives pufferfish beak development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4425-E4434.	3.3	32
32	Large batoid fishes frequently consume stingrays despite skeletal damage. <i>Royal Society Open Science</i> , 2017, 4, 170674.	1.1	32
33	Marginal dentition and multiple dermal jawbones as the ancestral condition of jawed vertebrates. <i>Science</i> , 2020, 369, 211-216.	6.0	31
34	Pattern formation in development of chondrichthyan dentitions: a review of an evolutionary model. <i>Historical Biology</i> , 2013, 25, 127-142.	0.7	30
35	Evolution of paired fins and the lateral somitic frontier. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2010, 314B, 347-352.	0.6	29
36	Cutting blade dentitions in squaliform sharks form by modification of inherited alternate tooth ordering patterns. <i>Royal Society Open Science</i> , 2016, 3, 160385.	1.1	29

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37	The braincase and palate of the tetrapodomorph sarcopterygian <i>Mandageria fairfaxi</i> : morphological variability near the fish-tetrapod transition. <i>Palaeontology</i> , 2003, 46, 271-293.	1.0	28
38	Development of the Synarcual in the Elephant Sharks (Holocephali; Chondrichthyes): Implications for Vertebral Formation and Fusion. <i>PLoS ONE</i> , 2015, 10, e0135138.	1.1	27
39	New morphological information on the ptyctodontid fishes (Placodermi, Ptyctodontida) from Western Australia. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 757-780.	0.4	25
40	The Upper Devonian fish <i>Bothriolepis</i> (Placodermi: Antiarchi) from near Canowindra, New South Wales, Australia. <i>Records of the Australian Museum</i> , 1998, 50, 315-348.	0.3	25
41	Vascularization of the osteostracan and antiarch (Placodermi) pectoral fin: similarities, and implications for placoderm relationships. <i>Lethaia</i> , 2002, 35, 169-186.	0.6	24
42	No bones about it: An enigmatic Devonian fossil reveals a new skeletal framework—A potential role of loss of gene regulation. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 414-423.	2.3	24
43	Ecological impact of the end-Cretaceous extinction on lamniform sharks. <i>PLoS ONE</i> , 2017, 12, e0178294.	1.1	24
44	<i>Strepsodus</i> (Rhizodontida, Sarcopterygii) pectoral elements from the Lower Carboniferous Ducabrook Formation, Queensland, Australia. <i>Journal of Vertebrate Paleontology</i> , 2005, 25, 46-62.	0.4	23
45	Fossilized ontogenies: the contribution of placoderm ontogeny to our understanding of the evolution of early gnathostomes. <i>Palaeontology</i> , 2014, 57, 505-516.	1.0	23
46	An early fossil remora (Echeneoidea) reveals the evolutionary assembly of the adhesion disc. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131200.	1.2	22
47	Homology of fin lepidotrichia in osteichthyan fishes. <i>Lethaia</i> , 2005, 38, 27-36.	0.6	21
48	Early scale development in <i>Heterodontus</i> (Heterodontiformes; Chondrichthyes): a novel chondrichthyan scale pattern. <i>Acta Zoologica</i> , 2007, 88, 249-256.	0.6	20
49	Growth and mineralogy in dental plates of the holocephalan <i>Harriotta raleighana</i> (Chondrichthyes): novel dentine and conserved patterning combine to create a unique chondrichthyan dentition. <i>Zoological Letters</i> , 2019, 5, 11.	0.7	20
50	A new species of <i>Barameda</i> (Rhizodontida) and heterochrony in the rhizodontid pectoral fin. <i>Journal of Vertebrate Paleontology</i> , 2007, 27, 295-315.	0.4	19
51	Early Palaeozoic dentine and patterned scales in the embryonic catshark tail. <i>Biology Letters</i> , 2008, 4, 87-90.	1.0	19
52	Response to Comment on "Separate Evolutionary Origins of Teeth from Evidence in Fossil Jawed Vertebrates". <i>Science</i> , 2003, 300, 1661c-1661.	6.0	18
53	New marsupial from the Fort Union Formation, Swain Quarry, Wyoming. <i>Journal of Paleontology</i> , 1996, 70, 1023-1031.	0.5	17
54	The "Tully Monster" is not a vertebrate: characters, convergence and taphonomy in Palaeozoic problematic animals. <i>Palaeontology</i> , 2017, 60, 149-157.	1.0	17

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55	Development and evolution of tooth renewal in neoselachian sharks as a model for transformation in chondrichthyan dentitions. <i>Journal of Anatomy</i> , 2018, 232, 891-907.	0.9	17
56	A new Late Famennian lungfish from New South Wales, Australia, and its bearing on Australian-Asian terrane relations. <i>Alcheringa</i> , 2000, 24, 99-118.	0.5	16
57	Regionalization of axial skeleton in the lungfish <i>Neoceratodus forsteri</i> (Dipnoi). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 229-237.	0.6	16
58	The apical ectodermal ridge in the pectoral fin of the Australian Lungfish (<i>Neoceratodus forsteri</i>). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 229-237.	0.6	16
59	New antiarchs (Placodermi) from the Hunter Siltstone (Famennian) near Grenfell, N.S.W.. <i>Alcheringa</i> , 1997, 21, 191-217.	0.5	15
60	Redescription of the pectoral fin and vertebral column of the rhizodontid fish <i>Barameda decipiens</i> from the lower carboniferous of Australia. <i>Journal of Vertebrate Paleontology</i> , 2005, 25, 8-18.	0.4	15
61	Is <i>Palaeospondylus gunni</i> a fossil larval lungfish? Insights from <i>Neoceratodus forsteri</i> development. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 163-171.	0.6	15
62	Mosaicism in a new Eocene pufferfish highlights rapid morphological innovation near the origin of crown tetraodontiforms. <i>Palaeontology</i> , 2016, 59, 499-514.	1.0	15
63	Fusion, gene misexpression and homeotic transformations in vertebral development of the gnathostome stem group (Placodermi). <i>International Journal of Developmental Biology</i> , 2010, 54, 71-80.	0.3	15
64	New marsupial from the Upper Cretaceous of Utah. <i>Journal of Vertebrate Paleontology</i> , 1994, 14, 292-295.	0.4	14
65	Loss in the making: absence of pelvic fins and presence of paedomorphic pelvic girdles in a Late Devonian antiarch placoderm (jawed stem-gnathostome). <i>Biology Letters</i> , 2018, 14, 20180199.	1.0	14
66	Mineralization of the <i>Callorhynchus</i> Vertebral Column (Holocephali; Chondrichthyes). <i>Frontiers in Genetics</i> , 2020, 11, 571694.	1.1	14
67	Acanthodian dental development and the origin of gnathostome dentitions. <i>Nature Ecology and Evolution</i> , 2021, 5, 919-926.	3.4	14
68	The Synarcual of the Little Skate, <i>Leucoraja erinacea</i> : Novel Development Among the Vertebrates. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	12
69	Holocephalan (Chondrichthyes) dental plates with hypermineralized dentine as a substitute for missing teeth through developmental plasticity. <i>Journal of Fish Biology</i> , 2020, 97, 16-27.	0.7	12
70	Evolution of the Dentition in Holocephalans (Chondrichthyes) Through Tissue Disparity. <i>Integrative and Comparative Biology</i> , 2020, 60, 630-643.	0.9	12
71	The scapulocoracoid of the Queensland lungfish <i>Neoceratodus forsteri</i> (Dipnoi: Sarcopterygii): morphology, development and evolutionary implications for bony fishes (Osteichthyes). <i>Zoology</i> , 2004, 107, 93-109.	0.6	11
72	NEW ONYCHODONTIFORM (OSTEICHTHYES; SARCOPTERYGII) FROM THE LOWER DEVONIAN OF VICTORIA, AUSTRALIA. <i>Journal of Paleontology</i> , 2007, 81, 1031-1043.	0.5	11

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73	Rhipidistians (Sarcopterygii) from the Hunter Siltstone (Late Famennian) near Grenfell, NSW, Australia. <i>Fossil Record</i> , 0, 3, 111-136.	0.4	11
74	Early evolution of the lungfish pectoral-fin endoskeleton: evidence from the Middle Devonian (Givetian) <i>Pentlandia macroptera</i> . <i>Frontiers in Earth Science</i> , 2014, 2, .	0.8	11
75	Early development of rostrum saw-teeth in a fossil ray tests classical theories of the evolution of vertebrate dentitions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151628.	1.2	11
76	Making teeth to order: conserved genes reveal an ancient molecular pattern in paddlefish (<i>Actinopterygii</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142700.	1.2	11
77	Evolution of vertebrate postcranial complexity: axial skeleton regionalization and paired appendages in a Devonian jawless fish. <i>Palaeontology</i> , 2018, 61, 949-961.	1.0	11
78	Ontogenetic development of an exceptionally preserved Devonian cartilaginous skeleton. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318B, 50-58.	0.6	10
79	Grand Challenges in Comparative Tooth Biology. <i>Integrative and Comparative Biology</i> , 2020, 60, 563-580.	0.9	10
80	Origins of bone repair in the armour of fossil fish: response to a deep wound by cells depositing dentine instead of dermal bone. <i>Biology Letters</i> , 2013, 9, 20130144.	1.0	9
81	Embryonic development of fin spines in <i>Callorhynchus milii</i> (Holocephali); implications for chondrichthyan fin spine evolution. <i>Evolution & Development</i> , 2014, 16, 339-353.	1.1	9
82	<i>Doliodus</i> and Pucapampellids. , 2018, , 87-109.		9
83	The Evolution of Endoskeletal Mineralisation in Chondrichthyan Fish. , 2018, , 110-125.		9
84	Morphology and phylogenetic relationships of fossil snake mackerels and cutlassfishes (Trichiuroidea) from the Eocene (Ypresian) London Clay Formation. <i>Papers in Palaeontology</i> , 2018, 4, 577-603.	0.7	9
85	<i>Sclerorhynchus atavus</i> and the convergent evolution of rostrum-bearing chondrichthyans. <i>Geological Society Special Publication</i> , 2016, 430, 129-136.	0.8	8
86	Evolutionary origins of teeth in jawed vertebrates: conflicting data from acanthothoracid dental plates (â€Placodermiâ€™). <i>Palaeontology</i> , 2017, 60, 829-836.	1.0	8
87	Questioning hagfish affinities of the enigmatic Devonian vertebrate <i>Palaeospondylus</i> . <i>Royal Society Open Science</i> , 2017, 4, 170214.	1.1	7
88	The clavobranchialis musculature in sarcopterygian fishes, and contribution to osteichthyan feeding and respiration. <i>Contributions To Zoology</i> , 2003, 72, 17-37.	0.2	6
89	â€Opisthomyzon glaronensis (Wettstein, 1886) (Acanthomorpha, â€Opisthomyzonidae), a junior synonym of â€Uropteryx elongatus Agassiz, 1844. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 1202-1206.	0.4	6
90	The Ordovician Enigma. , 2018, , 59-70.		6

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91	A large, anatomically primitive tristichopterid (Sarcopterygii: Tetrapodomorpha) from the Late Devonian (Frasnian) Alves Beds, Upper Old Red Sandstone, Moray, Scotland. <i>Scottish Journal of Geology</i> , 2014, 50, 79-85.	0.1	5
92	Ontogenetic development of the otic region in the new model organism, <i>Leucoraja erinacea</i> (Chondrichthyes; Rajidae). <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018, 109, 105-114.	0.3	5
93	Mechanisms of dermal bone repair after predatory attack in the giant stem-group teleost <i>Leedsichthys problematicus</i> Woodward, 1889a (Pachycormiformes). <i>Journal of Anatomy</i> , 2022, 241, 393-406.	0.9	5
94	Vascularization of the osteostracan and antiarch (Placodermi) pectoral fin: similarities, and implications for placoderm relationships. <i>Lethaia</i> , 2007, 35, 169-186.	0.6	4
95	First record of <i>Porolepis</i> (Sarcopterygii; Porolepiformes) from eastern Gondwana. <i>Canadian Journal of Earth Sciences</i> , 2013, 50, 249-253.	0.6	4
96	Evolution of Vertebrate Reproduction. , 2018, , 207-226.		4
97	Evolutionary trends of the conserved neurocranium shape in angel sharks (Squatiniiformes.) <i>Tj ETQq1 1 0.784314</i> <i>rgBT /Overlock 10 T</i>	0.6	4
98	New information concerning the Late Cretaceous marsupial <i>Albertatherium</i> Fox, 1971. <i>Journal of Vertebrate Paleontology</i> , 1995, 14, 595-602.	0.4	3
99	The Evolution of Fishes through Geological Time. , 2018, , 3-29.		3
100	The Evolution of Vertebrate Dermal Jaw Bones in the Light of Maxillate Placoderms. , 2018, , 71-86.		3
101	Hyperossification in the vertebral column of Devonian placoderm fishes (Arthrodira). <i>Journal of Vertebrate Paleontology</i> , 2020, 40, e1766477.	0.4	3
102	Feeding in the Devonian antiarch placoderm fishes: a study based upon morphofunctional analysis of jaws. <i>Journal of Paleontology</i> , 2022, 96, 1413-1430.	0.5	3
103	A revision of the Late Cretaceous (Campanian) marsupial <i>Qualadelphis lactea</i> Fox, 1987. <i>Journal of Vertebrate Paleontology</i> , 1993, 13, 373-377.	0.4	2
104	New informations on jaw elements of <i>Remigolepis</i> (Placodermi; Antiarchi) from Canowindra, NSW, Australia (Upper Devonian). <i>Geobios</i> , 1995, 28, 103-107.	0.7	2
105	A molecular guide to regulation of morphological pattern in the vertebrate dentition and the evolution of dental development. , 2012, , 166-206.		2
106	On fossils, phylogenies and sequences of evolutionary change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140115.	1.2	2
107	Introduction and bibliography. <i>Geological Society Special Publication</i> , 2016, 430, 1-29.	0.8	2
108	Paleobiology: A Tooth for a Tooth. <i>Current Biology</i> , 2017, 27, R117-R119.	1.8	2

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109	Comparative Development of Cyclostomes. , 2018, , 30-58.		2
110	A New Look at Carboniferous Rhizodontid Humeri (Sarcopterygii; Tetrapodomorpha)Citation for this article: Johanson, Z., J. Jeffery, T. Challands, S. E. Pierce, and J. A. Clack. 2020. A new look at Carboniferous rhizodontid humeri (Sarcopterygii; Tetrapodomorpha). Journal of Vertebrate Paleontology. DOI: 10.1080/02724634.2020.1813150.. Journal of Vertebrate Paleontology, 2020, 40, .	0.4	2
111	Cranial osteology of the Middle Jurassic (Callovian) Martillichthys renwickae (Neopterygii,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Papers in Palaeontology, 2021, 7, 111-136.	0.7	2
112	Journal of Anatomy Special Issue on "Vertebrate Evolutionary Development Biology"™. Journal of Anatomy, 2013, 222, 1-1.	0.9	1
113	Evolution, Development and Regeneration of Fish Dentitions. , 2018, , 160-171.		1
114	Development of Head Muscles in Fishes and Notes on Phylogeny-Ontogeny Links. , 2018, , 172-187.		1
115	Vertebrate Evolution: Jawless Heads Go with the Flow. Current Biology, 2020, 30, R1431-R1433.	1.8	1
116	Paleontology: There are more placoderms in the sea. Current Biology, 2021, 31, R1012-R1014.	1.8	1
117	Phylogeny of Lungfishes. , 2010, , 43-60.		1
118	Origin, Development and Evolution of the Fish Skull. , 2018, , 144-159.		0
119	Evolutionary Development of the Postcranial and Appendicular Skeleton in Fishes. , 2018, , 188-206.		0
120	Ontogenetic development of the holocephalan dentition: Morphological transitions of dentine in the absence of teeth. Journal of Anatomy, 2021, 239, 704-719.	0.9	0
121	3D models related to the publication: Ontogenetic development of the otic region in the new model organism, Leucoraja erinacea (Chondrichthyes; Rajidae). Å. MorphoMuseum, 2019, 5, e78.	0.1	0