Per E Ahlberg

List of Publications by Year
in descending order

131 papers	6,037 citations	76031 42 h-index	97045 71 g-index
144 all docs	144 docs citations	144 times ranked	3797 citing authors

#	Article	IF	Citations
1	Neural crest origins of the neck and shoulder. Nature, 2005, 436, 347-355.	13.7	466
2	A Silurian placoderm with osteichthyan-like marginal jaw bones. Nature, 2013, 502, 188-193.	13.7	244
3	Tetrapod trackways from the early Middle Devonian period of Poland. Nature, 2010, 463, 43-48.	13.7	238
4	The origin and early diversification of tetrapods. Nature, 1994, 368, 507-514.	13.7	228
5	A re-examination of sarcopterygian interrelationships, with special reference to the Porolepiformes. Zoological Journal of the Linnean Society, 1991, 103, 241-287.	1.0	163
6	Osteolepiforms and the ancestry of tetrapods. Nature, 1998, 395, 792-794.	13.7	144
7	Three-Dimensional Synchrotron Virtual Paleohistology: A New Insight into the World of Fossil Bone Microstructures. Microscopy and Microanalysis, 2012, 18, 1095-1105.	0.2	137
8	Morphology, Characters, and the Interrelationships of Basal Sarcopterygians. , 1996, , 445-479.		134
9	A primitive placoderm sheds light on the origin of the jawed vertebrate face. Nature, 2014, 507, 500-503.	13.7	124
10	The pectoral fin of Panderichthys and the origin of digits. Nature, 2008, 456, 636-638.	13.7	118
11	Fish fingers: digit homologues in sarcopterygian fish fins. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 757-768.	0.6	117
12	Lower jaws, lower tetrapodsâ€“a review based on the Devonian genus<i>Acanthostega</i>. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1998, 89, 11-46.	1.0	115
13	Hidden morphological diversity among early tetrapods. Nature, 2017, 546, 642-645.	13.7	115
14	The axial skeleton of the Devonian tetrapod Ichthyostega. Nature, 2005, 437, 137-140.	13.7	114
15	Elginerpeton pancheni and the earliest tetrapod clade. Nature, 1995, 373, 420-425.	13.7	108
16	A primitive sarcopterygian fish with an eyestalk. Nature, 2001, 410, 81-84.	13.7	104
17	Zebrafish in Context: Uses of a Laboratory Model in Comparative Studies. Developmental Biology, 1999, 210, 1-14.	0.9	98
18	Copulation in antiarch placoderms and the origin of gnathostome internal fertilization. Nature, 2015, 517, 196-199.	13.7	94

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19	A firm step from water to land. Nature, 2006, 440, 748-749.	13.7	89
20	Rapid braincase evolution between Panderichthys and the earliest tetrapods. Nature, 1996, 381, 61-64.	13.7	87
21	Tetrapod-like middle ear architecture in a Devonian fish. Nature, 2006, 439, 318-321.	13.7	87
22	Jaws and teeth of the earliest bony fishes. Nature, 2007, 448, 583-586.	13.7	87
23	A Silurian maxillate placoderm illuminates jaw evolution. Science, 2016, 354, 334-336.	6.0	86
24	The First Tetrapod Finds from the Devonian (Upper Famennian) of Latvia. Philosophical Transactions of the Royal Society B: Biological Sciences, 1994, 343, 303-328.	1.8	83
25	The origin of the internal nostril of tetrapods. Nature, 2004, 432, 94-97.	13.7	79
26	Paired fin skeletons and relationships of the fossil group Porolepiformes (Osteichthyes:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (S	1.0	78
27	Ventastega curonica and the origin of tetrapod morphology. Nature, 2008, 453, 1199-1204.	13.7	75
28	New genomic and fossil data illuminate the origin of enamel. Nature, 2015, 526, 108-111.	13.7	74
29	The structure of the sarcopterygian <i>Onychodus jandemarrai</i> n. sp. from Gogo, Western Australia: with a functional interpretation of the skeleton. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2005, 96, 197-307.	1.0	63
30	3D Microstructural Architecture of Muscle Attachments in Extant and Fossil Vertebrates Revealed by Synchrotron Microtomography. PLoS ONE, 2013, 8, e56992.	1.1	61
31	A new tristichopterid (Osteolepiformes: Sarcopterygii) from the Mandagery Sandstone (Late Devonian,) Tj ETQq1 1 0.784314 rgBT /Ove Sciences, 1997, 88, 39-68.	1.0	59
32	Second tristichopterid (Sarcopterygii, Osteolepiformes) from the Upper Devonian of Canowindra, New South Wales, Australia, and phylogeny of the Tristichopteridae. Journal of Vertebrate Paleontology, 1997, 17, 653-673.	0.4	59
33	A complete primitive rhizodont from Australia. Nature, 1998, 394, 569-573.	13.7	59
34	Fossil Musculature of the Most Primitive Jawed Vertebrates. Science, 2013, 341, 160-164.	6.0	57
35	On the Roles and Regulation of Chondroitin Sulfate and Heparan Sulfate in Zebrafish Pharyngeal Cartilage Morphogenesis. Journal of Biological Chemistry, 2012, 287, 33905-33916.	1.6	56
36	Devonian rhizodontids and tristichopterids (Sarcopterygii; Tetrapodomorpha) from East Gondwana. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2001, 92, 43-74.	1.0	55

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37	Early Gnathostome Phylogeny Revisited: Multiple Method Consensus. PLoS ONE, 2016, 11, e0163157.	1.1	54
38	Developmental plasticity and disparity in early dipnoan (lungfish) dentitions. Evolution & Development, 2006, 8, 331-349.	1.1	52
39	First Devonian tetrapod from Asia. Nature, 2002, 420, 760-761.	13.7	51
40	Vertebral architecture in the earliest stem tetrapods. Nature, 2013, 494, 226-229.	13.7	51
41	Devonian tetrapod from western Europe. Nature, 2004, 427, 412-413.	13.7	50
42	Contrasting Developmental Trajectories in the Earliest Known Tetrapod Forelimbs. Science, 2009, 324, 364-367.	6.0	48
43	Did Terrestrial Diversification of Amoebas (Amoebozoa) Occur in Synchrony with Land Plants?. PLoS ONE, 2013, 8, e74374.	1.1	48
44	Hedgehog signaling patterns the outgrowth of unpaired skeletal appendages in zebrafish. BMC Developmental Biology, 2007, 7, 75.	2.1	46
45	The late Devonian lungfishSoederberghia(Sarcopterygii, Dipnoi) from Australia and North America, and its biogeographical implications. Journal of Vertebrate Paleontology, 2001, 21, 1-12.	0.4	43
46	Postcranial stem tetrapod remains from the Devonian of Scat Craig, Morayshire, Scotland. Zoological Journal of the Linnean Society, 1998, 122, 99-141.	1.0	42
47	Life history of the stem tetrapod Acanthostega revealed by synchrotron microtomography. Nature, 2016, 537, 408-411.	13.7	40
48	The stem osteichthyan Andreolepis and the origin of tooth replacement. Nature, 2016, 539, 237-241.	13.7	39
49	The postcranial skeleton of the Middle Devonian lungfish<i>Dipterus valenciennesi</i>. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1994, 85, 159-175.	1.0	37
50	Pelvic claspers confirm chondrichthyan-like internal fertilization in arthrodires. Nature, 2009, 460, 888-889.	13.7	36
51	Fossilized cell structures identify an ancient origin for the teleost whole-genome duplication. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
52	Possible hominin footprints from the late Miocene (c. 5.7 Ma) of Crete?. Proceedings of the Geologists Association, 2017, 128, 697-710.	0.6	35
53	Evolution of the vertebrate neurocranium: problems of the premandibular domain and theÂorigin of theÂtrabecula. Zoological Letters, 2018, 4, 1.	0.7	35
54	Comparative pelvic development of the axolotl (Ambystoma mexicanum) and the Australian lungfish (Neoceratodus forsteri): conservation and innovation across the fish-tetrapod transition. EvoDevo, 2013, 4, 3.	1.3	34

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55	A new coelacanth from the Middle Devonian of Latvia. Journal of Vertebrate Paleontology, 2000, 20, 243-252.	0.4	32
56	A new genus of Devonian tetrapod from Northâ€East Greenland, with new information on the lower jaw of <i>Ichthyostega</i>. Palaeontology, 2012, 55, 73-86.	1.0	31
57	The first direct evidence of a Late Devonian coelacanth fish feeding on conodont animals. Die Naturwissenschaften, 2017, 104, 26.	0.6	31
58	Marginal dentition and multiple dermal jawbones as the ancestral condition of jawed vertebrates. Science, 2020, 369, 211-216.	6.0	31
59	Synchrotron phase-contrast microtomography of coprolites generates novel palaeobiological data. Scientific Reports, 2017, 7, 2723.	1.6	30
60	Beetle-bearing coprolites possibly reveal the diet of a Late Triassic dinosauriform. Royal Society Open Science, 2019, 6, 181042.	1.1	30
61	Follow the footprints and mind the gaps: a new look at the origin of tetrapods. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 115-137.	0.3	29
62	The first specimen of<i>Archaeopteryx</i>from the Upper Jurassic MÃ¶rnsheim Formation of Germany. Historical Biology, 2019, 31, 3-63.	0.7	29
63	The braincase and palate of the tetrapodomorph sarcopterygian mandageria fairfaxi: morphological variability near the fish-tetrapod transition. Palaeontology, 2003, 46, 271-293.	1.0	28
64	The genome of <i>Callorhinchus</i> and the fossil record: a new perspective on SCPP gene evolution in gnathostomes. Evolution & Development, 2014, 16, 123-124.	1.1	28
65	Brain â€" Endocast Relationship in the Australian Lungfish, Neoceratodus forsteri, Elucidated from Tomographic Data (Sarcopterygii: Dipnoi). PLoS ONE, 2015, 10, e0141277.	1.1	27
66	Scales and Tooth Whorls of Ancient Fishes Challenge Distinction between External and Oral â€˜Teethâ€™. PLoS ONE, 2013, 8, e71890.	1.1	26
67	A Devonian predatory fish provides insights into the early evolution of modern sarcopterygians. Science Advances, 2016, 2, e1600154.	4.7	26
68	The First Virtual Cranial Endocast of a Lungfish (Sarcopterygii: Dipnoi). PLoS ONE, 2014, 9, e113898.	1.1	25
69	Sarcopterygian interrelationships: How far are we from a phylogenetic consensus?. Geobios, 1995, 28, 241-248.	0.7	24
70	A new large pterosaur from the Late Cretaceous of Patagonia. Journal of Vertebrate Paleontology, 2012, 32, 1447-1452.	0.4	24
71	Threeâ€dimensional virtual histology of silurian osteostracan scales revealed by synchrotron radiation microtomography. Journal of Morphology, 2015, 276, 873-888.	0.6	24
72	Neurocranial anatomy of an enigmatic Early Devonian fish sheds light on early osteichthyan evolution. ELife, 2018, 7, .	2.8	24

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73	Exceptionally preserved beetles in a Triassic coprolite of putative dinosauriform origin. Current Biology, 2021, 31, 3374-3381.e5.	1.8	23
74	The internal cranial anatomy of Romundina stellina Ã˜rvig, 1975 (Vertebrata, Placodermi,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (PLoS ONE, 2017, 12, e0171241.	1.1	23
75	The origin of novel features by changes in developmental mechanisms: ontogeny and threeâ€dimensional microanatomy of polyodontode scales of two early osteichthyans. Biological Reviews, 2017, 92, 1189-1212.	4.7	22
76	Static Dental Disparity and Morphological Turnover in Sharks across the End-Cretaceous Mass Extinction. Current Biology, 2018, 28, 2607-2615.e3.	1.8	22
77	A tetrapod fauna from within the Devonian Antarctic Circle. Science, 2018, 360, 1120-1124.	6.0	22
78	Scale morphology and squamation of the Late Silurian osteichthyan <i>Andreolepis</i>from Gotland, Sweden. Historical Biology, 2012, 24, 411-423.	0.7	21
79	The developmental relationship between teeth and dermal odontodes in the most primitive bony fish Lophosteus. ELife, 2020, 9, .	2.8	20
80	Chondroitin / Dermatan Sulfate Modification Enzymes in Zebrafish Development. PLoS ONE, 2015, 10, e0121957.	1.1	19
81	New discoveries of tetrapods (ichthyostegidâ€like and whatcheeriidâ€like) in the Famennian (Late) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	19
82	A NEW TRISTICHOPTERID (SARCOPTERYGII, TETRAPODOMORPHA) FROM THE UPPER FAMENNIAN EVIEUX FORMATION (UPPER DEVONIAN) OF BELGIUM. Palaeontology, 2009, 52, 823-836.	1.0	18
83	Morphology of the earliest reconstructable tetrapod Parmastega aelidae. Nature, 2019, 574, 527-531.	13.7	18
84	Tyrannosaurid-like osteophagy by a Triassic archosaur. Scientific Reports, 2019, 9, 925.	1.6	18
85	Endocast and Bony Labyrinth of a Devonian â€œPlacodermâ€• Challenges Stem Gnathostome Phylogeny. Current Biology, 2021, 31, 1112-1118.e4.	1.8	18
86	New light on the earliest known tetrapod jaw. Journal of Vertebrate Paleontology, 2005, 25, 720-724.	0.4	17
87	Something fishy in the family tree. Nature, 1999, 397, 564-565.	13.7	15
88	Bone vascularization and growth in placoderms (Vertebrata): The example of the premedian plate of Romundina stellina Ã˜rvig, 1975. Comptes Rendus - Palevol, 2010, 9, 369-375.	0.1	15
89	A Devonian tetrapod-like fish reveals substantial parallelism in stem tetrapod evolution. Nature Ecology and Evolution, 2017, 1, 1470-1476.	3.4	15
90	Development of cyclic shedding teeth from semi-shedding teeth: the inner dental arcade of the stem osteichthyan <i>Lophosteus</i>. Royal Society Open Science, 2017, 4, 161084.	1.1	15

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91	The smallest known Devonian tetrapod shows unexpectedly derived features. Royal Society Open Science, 2020, 7, 192117.	1.1	13
92	Three-dimensional paleohistology of the scale and median fin spine of<i>Lophosteus superbus</i>(Pander 1856). PeerJ, 2016, 4, e2521.	0.9	13
93	Specialized Craniofacial Anatomy of a Titanosaurian Embryo from Argentina. Current Biology, 2020, 30, 4263-4269.e2.	1.8	12
94	Filter feeding in Late Jurassic pterosaurs supported by coprolite contents. PeerJ, 2019, 7, e7375.	0.9	12
95	Feeding ecology has shaped the evolution of modern sharks. Current Biology, 2021, 31, 5138-5148.e4.	1.8	12
96	Long-bone development and life-history traits of the Devonian tristichopterid <i>Hyneria lindae</i>. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 75-86.	0.3	11
97	Trace and rare earth element compositions of Silurian conodonts from the Vesiku Bone Bed: Histological and palaeoenvironmental implications. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 549, 109449.	1.0	11
98	A glimpse of a fish face â€” An exceptional fish feeding trace fossil from the Lower Devonian of the Holy Cross Mountains, Poland. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 454, 113-124.	1.0	10
99	Avian ichnia and other vertebrate trace fossils from the Neogene Red Beds of Tarom valley in north-western Iran. Historical Biology, 2016, 28, 1075-1089.	0.7	10
100	Embryonic development of fin spines in <i>Callorhinchus milii</i> (Holocephali); implications for chondrichthyan fin spine evolution. Evolution & Development, 2014, 16, 339-353.	1.1	9
101	Non-marine palaeoenvironment associated to the earliest tetrapod tracks. Scientific Reports, 2018, 8, 1074.	1.6	9
102	The cranial endocast of<i>Dipnorhynchus sussmilchi</i>(Sarcopterygii: Dipnoi) and the interrelationships of stem-group lungfishes. PeerJ, 2016, 4, e2539.	0.9	8
103	The Evolution of the Spiracular Region From Jawless Fishes to Tetrapods. Frontiers in Ecology and Evolution, 0, 10, .	1.1	8
104	How to keep a head in order. Nature, 1997, 385, 489-490.	13.7	7
105	Homologies and cell populations: a response to Sanchez-Villagra and Maier. Evolution & Development, 2006, 8, 116-118.	1.1	7
106	Unique diversity of acanthothoracid placoderms (basal jawed vertebrates) in the Early Devonian of the Prague Basin, Czech Republic: A new look at Radotina and Holopetalichthys. PLoS ONE, 2017, 12, e0174794.	1.1	7
107	Unique pelvic fin in a tetrapod-like fossil fish, and the evolution of limb patterning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12005-12010.	3.3	7
108	Tides: A key environmental driver of osteichthyan evolution and the fish-tetrapod transition?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200355.	1.0	7

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109	Tooth morphology elucidates shark evolution across the end-Cretaceous mass extinction. PLoS Biology, 2021, 19, e3001108.	2.6	6
110	Birth of the jawed vertebrates. Nature, 2009, 457, 1094-1095.	13.7	5
111	Frasnian vertebrate taphonomy and sedimentology of macrofossil concentrations from the LangsÄ“de Cliff, Latvia. Lethaia, 2012, 45, 356-370.	0.6	5
112	A partial lower jaw of a tetrapod from â€œRomer's Gapâ€ Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2017, 108, 55-65.	0.3	5
113	A comparative genomic framework for the fish-tetrapod transition. Science China Life Sciences, 2021, 64, 664-666.	2.3	5
114	Fossil fishes from Gogo. Nature, 1989, 337, 511-512.	13.7	4
115	A new tool for determining degrees of mineralization in fossil amphibian skeletons: The example of the Late Palaeozoic branchiosaurid Apateon from the Autun Basin, France. Comptes Rendus - Palevol, 2010, 9, 311-317.	0.1	4
116	First record of Porolepis (Sarcopterygii; Porolepiformes) from eastern Gondwana. Canadian Journal of Earth Sciences, 2013, 50, 249-253.	0.6	4
117	Paleoenvironments revealed by rare-earth element systematics in vertebrate bioapatite from the Lower Devonian of Svalbard. Canadian Journal of Earth Sciences, 2016, 53, 788-794.	0.6	4
118	A new method for reconstructing brain morphology: applying the brain-neurocranial spatial relationship in an extant lungfish to a fossil endocast. Royal Society Open Science, 2016, 3, 160307.	1.1	4
119	Age constraints for the Trachilos footprints from Crete. Scientific Reports, 2021, 11, 19427.	1.6	4
120	...for Devonian vertebrates. Nature, 1989, 342, 738-738.	13.7	3
121	Glimpsing the hidden majority. Nature, 1990, 344, 23-23.	13.7	3
122	A putative upupiform bird from the <scp>E</scp>arly <scp>O</scp>ligocene of the <scp>C</scp>entral <scp>W</scp>estern <scp>C</scp>arpathians and a review of fossil birds unearthed in <scp>S</scp>lovakia. Acta Zoologica, 2015, 96, 45-59.	0.6	3
123	Vascularization and odontode structure of a dorsal ridge spine of Romundina stellina Ã˜rvig 1975. PLoS ONE, 2017, 12, e0189833.	1.1	3
124	Therapsids and transformation series. Nature, 1993, 361, 596-596.	13.7	2
125	<i>Ichthyostega</i> in depth:. Lethaia, 1996, 29, 170-170.	0.6	2
126	Sarcopterygians: From Lobe-Finned Fishes to the Tetrapod Stem Group. Springer Handbook of Auditory Research, 2016, , 51-70.	0.3	2

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127	There's a ratfish in our cellar!. Geology Today, 1997, 13, 20-23.	0.3	1
128	Fossils, function and phylogeny: Papers on early vertebrate evolution in honour of Professor Jennifer A. Clack â€“ Introduction. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 1-14.	0.3	1
129	Morphometric analysis of lungfish endocasts elucidates early dipnoan palaeoneurological evolution. ELife, 0, 11, .	2.8	1
130	Amphibian Evolution: The Life of Early Land Vertebrates. Topics in Paleobiology. By Rainer R. Schoch. Hoboken (New Jersey): Wiley Blackwell. $149.95 (hardcover); $89.95 (paper). xi + 264 p. + 16 pl.; ill.; index. ISBN: 978-0-470-67177-1 (hc); 978-0-470-67178-8 (pb). 2014.. Quarterly Review of Biology, 2015, 90, 205-206.	0.0	0
131	Comments on the Squamation of Polish Lower Devonian Porolepiforms. Journal of Vertebrate Paleontology, 2019, 39, e1738448.	0.4	0