

# Per E Ahlberg

## List of Publications by Citations

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123  
papers

4,732  
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41  
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65  
g-index

144  
ext. papers

5,503  
ext. citations

16.7  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
123	Neural crest origins of the neck and shoulder. <i>Nature</i> , <b>2005</b> , 436, 347-55	50.4	378
122	The origin and early diversification of tetrapods. <i>Nature</i> , <b>1994</b> , 368, 507-514	50.4	202
121	A Silurian placoderm with osteichthyan-like marginal jaw bones. <i>Nature</i> , <b>2013</b> , 502, 188-93	50.4	187
120	Tetrapod trackways from the early Middle Devonian period of Poland. <i>Nature</i> , <b>2010</b> , 463, 43-8	50.4	180
119	A re-examination of sarcopterygian interrelationships, with special reference to the Porolepiformes. <i>Zoological Journal of the Linnean Society</i> , <b>1991</b> , 103, 241-287	2.4	134
118	Osteolepiforms and the ancestry of tetrapods. <i>Nature</i> , <b>1998</b> , 395, 792-794	50.4	126
117	Three-dimensional synchrotron virtual paleohistology: a new insight into the world of fossil bone microstructures. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 1095-105	0.5	124
116	Fish fingers: digit homologues in sarcopterygian fish fins. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2007</b> , 308, 757-68	1.8	105
115	Morphology, Characters, and the Interrelationships of Basal Sarcopterygians <b>1996</b> , 445-479		104
114	A primitive placoderm sheds light on the origin of the jawed vertebrate face. <i>Nature</i> , <b>2014</b> , 507, 500-3	50.4	102
113	The pectoral fin of Panderichthys and the origin of digits. <i>Nature</i> , <b>2008</b> , 456, 636-8	50.4	102
112	Lower jaws, lower tetrapods—review based on the Devonian genus Acanthostega. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , <b>1998</b> , 89, 11-46		99
111	The axial skeleton of the Devonian tetrapod Ichthyostega. <i>Nature</i> , <b>2005</b> , 437, 137-40	50.4	94
110	A primitive sarcopterygian fish with an eyestalk. <i>Nature</i> , <b>2001</b> , 410, 81-4	50.4	90
109	Zebrafish in context: uses of a laboratory model in comparative studies. <i>Developmental Biology</i> , <b>1999</b> , 210, 1-14	3.1	87
108	Elginerpeton pancheni and the earliest tetrapod clade. <i>Nature</i> , <b>1995</b> , 373, 420-425	50.4	87
107	Hidden morphological diversity among early tetrapods. <i>Nature</i> , <b>2017</b> , 546, 642-645	50.4	83

106	Jaws and teeth of the earliest bony fishes. <i>Nature</i> , <b>2007</b> , 448, 583-6	50.4	81
105	Rapid braincase evolution between Panderichthys and the earliest tetrapods. <i>Nature</i> , <b>1996</b> , 381, 61-64	50.4	77
104	Copulation in antiarch placoderms and the origin of gnathostome internal fertilization. <i>Nature</i> , <b>2015</b> , 517, 196-9	50.4	74
103	The First Tetrapod Finds from the Devonian (Upper Famennian) of Latvia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1994</b> , 343, 303-328	5.8	73
102	Paired fin skeletons and relationships of the fossil group Porolepiformes (Osteichthyes: Sarcopterygii). <i>Zoological Journal of the Linnean Society</i> , <b>1989</b> , 96, 119-166	2.4	71
101	Tetrapod-like middle ear architecture in a Devonian fish. <i>Nature</i> , <b>2006</b> , 439, 318-21	50.4	70
100	Ventastega curonica and the origin of tetrapod morphology. <i>Nature</i> , <b>2008</b> , 453, 1199-204	50.4	63
99	The origin of the internal nostril of tetrapods. <i>Nature</i> , <b>2004</b> , 432, 94-7	50.4	61
98	A Silurian maxillate placoderm illuminates jaw evolution. <i>Science</i> , <b>2016</b> , 354, 334-336	33.3	56
97	The structure of the sarcopterygian <i>Onychodus jandemarrai</i> n. sp. from Gogo, Western Australia: with a functional interpretation of the skeleton. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , <b>2005</b> , 96, 197-307		56
96	New genomic and fossil data illuminate the origin of enamel. <i>Nature</i> , <b>2015</b> , 526, 108-11	50.4	53
95	3D microstructural architecture of muscle attachments in extant and fossil vertebrates revealed by synchrotron microtomography. <i>PLoS ONE</i> , <b>2013</b> , 8, e56992	3.7	52
94	A complete primitive rhizodont from Australia. <i>Nature</i> , <b>1998</b> , 394, 569-573	50.4	50
93	On the roles and regulation of chondroitin sulfate and heparan sulfate in zebrafish pharyngeal cartilage morphogenesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33905-16	5.4	49
92	Developmental plasticity and disparity in early dipnoan (lungfish) dentitions. <i>Evolution &amp; Development</i> , <b>2006</b> , 8, 331-49	2.6	49
91	Fossil musculature of the most primitive jawed vertebrates. <i>Science</i> , <b>2013</b> , 341, 160-4	33.3	48
90	Palaeogeography: Devonian tetrapod from western Europe. <i>Nature</i> , <b>2004</b> , 427, 412-3	50.4	48
89	Devonian rhizodontids and tristichopterids (Sarcopterygii; Tetrapodomorpha) from East Gondwana. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , <b>2001</b> , 92, 43-74		47

88	A new tristichopterid (Osteolepiformes: Sarcopterygii) from the Mandagery Sandstone (Late Devonian, Famennian) near Canowindra, NSW, Australia. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , <b>1997</b> , 88, 39-68		45
87	Contrasting developmental trajectories in the earliest known tetrapod forelimbs. <i>Science</i> , <b>2009</b> , 324, 364-7	33.3	44
86	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> , <b>1997</b> , 17, 653-673	1.7	44
85	Palaeontology: first Devonian tetrapod from Asia. <i>Nature</i> , <b>2002</b> , 420, 760-1	50.4	43
84	Vertebral architecture in the earliest stem tetrapods. <i>Nature</i> , <b>2013</b> , 494, 226-9	50.4	42
83	Early Gnathostome Phylogeny Revisited: Multiple Method Consensus. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163157	3.7	38
82	Postcranial stem tetrapod remains from the Devonian of Scat Craig, Morayshire, Scotland. <i>Zoological Journal of the Linnean Society</i> , <b>1998</b> , 122, 99-141	2.4	35
81	Did terrestrial diversification of amoebas (amoebozoa) occur in synchrony with land plants?. <i>PLoS ONE</i> , <b>2013</b> , 8, e74374	3.7	31
80	Hedgehog signaling patterns the outgrowth of unpaired skeletal appendages in zebrafish. <i>BMC Developmental Biology</i> , <b>2007</b> , 7, 75	3.1	31
79	The stem osteichthyan <i>Andreolepis</i> and the origin of tooth replacement. <i>Nature</i> , <b>2016</b> , 539, 237-241	50.4	30
78	The late Devonian lungfish <i>Soederberghia</i> (Sarcopterygii, Dipnoi) from Australia and North America, and its biogeographical implications. <i>Journal of Vertebrate Paleontology</i> , <b>2001</b> , 21, 1-12	1.7	30
77	The postcranial skeleton of the Middle Devonian lungfish <i>Dipterus valenciennesi</i> . <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , <b>1994</b> , 85, 159-175		30
76	Pelvic claspers confirm chondrichthyan-like internal fertilization in arthrodires. <i>Nature</i> , <b>2009</b> , 460, 888-9	50.4	29
75	A new coelacanth from the Middle Devonian of Latvia. <i>Journal of Vertebrate Paleontology</i> , <b>2000</b> , 20, 243-252		29
74	Life history of the stem tetrapod <i>Acanthostega</i> revealed by synchrotron microtomography. <i>Nature</i> , <b>2016</b> , 537, 408-411	50.4	28
73	Comparative pelvic development of the axolotl ( <i>Ambystoma mexicanum</i> ) and the Australian lungfish ( <i>Neoceratodus forsteri</i> ): conservation and innovation across the fish-tetrapod transition. <i>EvoDevo</i> , <b>2013</b> , 4, 3	3.2	26
72	The genome of <i>Callorhinchus</i> and the fossil record: a new perspective on SCPP gene evolution in gnathostomes. <i>Evolution &amp; Development</i> , <b>2014</b> , 16, 123-4	2.6	25
71	The braincase and palate of the tetrapodomorph sarcopterygian <i>Mandageria fairfaxi</i> : morphological variability near the fish-tetrapod transition. <i>Palaeontology</i> , <b>2003</b> , 46, 271-293	2.9	25

70	The first direct evidence of a Late Devonian coelacanth fish feeding on conodont animals. <i>Die Naturwissenschaften</i> , <b>2017</b> , 104, 26	2	24
69	Brain - Endocast Relationship in the Australian Lungfish, <i>Neoceratodus forsteri</i> , Elucidated from Tomographic Data (Sarcopterygii: Dipnoi). <i>PLoS ONE</i> , <b>2015</b> , 10, e0141277	3.7	23
68	A new genus of Devonian tetrapod from North-East Greenland, with new information on the lower jaw of <i>Ichthyostega</i> . <i>Palaeontology</i> , <b>2012</b> , 55, 73-86	2.9	23
67	The first virtual cranial endocast of a lungfish (sarcopterygii: dipnoi). <i>PLoS ONE</i> , <b>2014</b> , 9, e113898	3.7	23
66	A Devonian predatory fish provides insights into the early evolution of modern sarcopterygians. <i>Science Advances</i> , <b>2016</b> , 2, e1600154	14.3	21
65	Scales and tooth whorls of ancient fishes challenge distinction between external and oral 'teeth'. <i>PLoS ONE</i> , <b>2013</b> , 8, e71890	3.7	21
64	Synchrotron phase-contrast microtomography of coprolites generates novel palaeobiological data. <i>Scientific Reports</i> , <b>2017</b> , 7, 2723	4.9	20
63	The internal cranial anatomy of <i>Romundina stellina</i> Evg, 1975 (Vertebrata, Placodermi, Acanthothoraci) and the origin of jawed vertebrates-Anatomical atlas of a primitive gnathostome. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171241	3.7	20
62	The origin of novel features by changes in developmental mechanisms: ontogeny and three-dimensional microanatomy of polyodontode scales of two early osteichthyans. <i>Biological Reviews</i> , <b>2017</b> , 92, 1189-1212	13.5	19
61	Three-dimensional virtual histology of Silurian osteostracan scales revealed by synchrotron radiation microtomography. <i>Journal of Morphology</i> , <b>2015</b> , 276, 873-88	1.6	19
60	Possible hominin footprints from the late Miocene (c. 5.7 Ma) of Crete?. <i>Proceedings of the Geologists Association</i> , <b>2017</b> , 128, 697-710	1.1	19
59	A new large pterosaur from the Late Cretaceous of Patagonia. <i>Journal of Vertebrate Paleontology</i> , <b>2012</b> , 32, 1447-1452	1.7	19
58	Sarcopterygian interrelationships: How far are we from a phylogenetic consensus?. <i>Geobios</i> , <b>1995</b> , 28, 241-248	1.5	19
57	Static Dental Disparity and Morphological Turnover in Sharks across the End-Cretaceous Mass Extinction. <i>Current Biology</i> , <b>2018</b> , 28, 2607-2615.e3	6.3	18
56	Scale morphology and squamation of the Late Silurian osteichthyan <i>Andreolepis</i> from Gotland, Sweden. <i>Historical Biology</i> , <b>2012</b> , 24, 411-423	1.1	17
55	New discoveries of tetrapods (ichthyostegid-like and whatcheeriid-like) in the Famennian (Late Devonian) localities of Strud and Becco (Belgium). <i>Palaeontology</i> , <b>2016</b> , 59, 827-840	2.9	16
54	The first specimen of <i>Archaeopteryx</i> from the Upper Jurassic M€unshheim Formation of Germany. <i>Historical Biology</i> , <b>2019</b> , 31, 3-63	1.1	16
53	Neurocranial anatomy of an enigmatic Early Devonian fish sheds light on early osteichthyan evolution. <i>ELife</i> , <b>2018</b> , 7,	8.9	16

52	Marginal dentition and multiple dermal jawbones as the ancestral condition of jawed vertebrates. <i>Science</i> , <b>2020</b> , 369, 211-216	33.3	15
51	Evolution of the vertebrate neurocranium: problems of the premandibular domain and the origin of the trabecula. <i>Zoological Letters</i> , <b>2018</b> , 4, 1	3	15
50	Beetle-bearing coprolites possibly reveal the diet of a Late Triassic dinosauriform. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 181042	3.3	14
49	A tetrapod fauna from within the Devonian Antarctic Circle. <i>Science</i> , <b>2018</b> , 360, 1120-1124	33.3	14
48	New light on the earliest known tetrapod jaw. <i>Journal of Vertebrate Paleontology</i> , <b>2005</b> , 25, 720-724	1.7	14
47	Bone vascularization and growth in placoderms (Vertebrata): The example of the premedian plate of <i>Romundina stellina</i> Evig, 1975. <i>Comptes Rendus - Palevol</i> , <b>2010</b> , 9, 369-375	1.6	13
46	Follow the footprints and mind the gaps: a new look at the origin of tetrapods. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , <b>2018</b> , 109, 115-137	0.9	13
45	A Devonian tetrapod-like fish reveals substantial parallelism in stem tetrapod evolution. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1470-1476	12.3	12
44	Development of cyclic shedding teeth from semi-shedding teeth: the inner dental arcade of the stem osteichthyan. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 161084	3.3	12
43	A NEW TRISTICHOPTERID (SARCOPTERYGII, TETRAPODOMORPHA) FROM THE UPPER FAMENNIAN EVIEUX FORMATION (UPPER DEVONIAN) OF BELGIUM. <i>Palaeontology</i> , <b>2009</b> , 52, 823-836	2.9	12
42	Chondroitin / dermatan sulfate modification enzymes in zebrafish development. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121957	3.7	11
41	The developmental relationship between teeth and dermal odontodes in the most primitive bony fish. <i>ELife</i> , <b>2020</b> , 9,	8.9	10
40	Tyrannosaurid-like osteophagy by a Triassic archosaur. <i>Scientific Reports</i> , <b>2019</b> , 9, 925	4.9	9
39	Three-dimensional paleohistology of the scale and median fin spine of (Pander 1856). <i>PeerJ</i> , <b>2016</b> , 4, e2521	3.1	9
38	Specialized Craniofacial Anatomy of a Titanosaurian Embryo from Argentina. <i>Current Biology</i> , <b>2020</b> , 30, 4263-4269.e2	6.3	9
37	A glimpse of a fish face – An exceptional fish feeding trace fossil from the Lower Devonian of the Holy Cross Mountains, Poland. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2016</b> , 454, 113-124	2.9	9
36	Morphology of the earliest reconstructable tetrapod <i>Parmastega aelidae</i> . <i>Nature</i> , <b>2019</b> , 574, 527-531	50.4	8
35	Long-bone development and life-history traits of the Devonian tristichopterid <i>Hynieria lindae</i> . <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , <b>2018</b> , 109, 75-86	0.9	8

34	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. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174794	3.7	7
33	Avian ichnia and other vertebrate trace fossils from the Neogene Red Beds of Tarom valley in north-western Iran. <i>Historical Biology</i> , <b>2016</b> , 28, 1075-1089	1.1	6
32	Embryonic development of fin spines in <i>Callorhinchus milii</i> (Holocephali); implications for chondrichthyan fin spine evolution. <i>Evolution &amp; Development</i> , <b>2014</b> , 16, 339-53	2.6	6
31	Filter feeding in Late Jurassic pterosaurs supported by coprolite contents. <i>PeerJ</i> , <b>2019</b> , 7, e7375	3.1	6
30	Unique pelvic fin in a tetrapod-like fossil fish, and the evolution of limb patterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12005-12010	11.5	6
29	Fossilized cell structures identify an ancient origin for the teleost whole-genome duplication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
28	The smallest known Devonian tetrapod shows unexpectedly derived features. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 192117	3.3	5
27	Non-marine palaeoenvironment associated to the earliest tetrapod tracks. <i>Scientific Reports</i> , <b>2018</b> , 8, 1074	4.9	5
26	A partial lower jaw of a tetrapod from Bomer's Gap. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , <b>2017</b> , 108, 55-65	0.9	5
25	Homologies and cell populations: a response to Sánchez-Villagra and Maier. <i>Evolution &amp; Development</i> , <b>2006</b> , 8, 116-8	2.6	5
24	The cranial endocast of (Sarcopterygii: Dipnoi) and the interrelationships of stem-group lungfishes. <i>PeerJ</i> , <b>2016</b> , 4, e2539	3.1	5
23	Trace and rare earth element compositions of Silurian conodonts from the Vesiku Bone Bed: Histological and palaeoenvironmental implications. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2020</b> , 549, 109449	2.9	5
22	Tides: A key environmental driver of osteichthyan evolution and the fish-tetrapod transition?. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2020</b> , 476, 20200355	2.4	5
21	Exceptionally preserved beetles in a Triassic coprolite of putative dinosauriform origin. <i>Current Biology</i> , <b>2021</b> , 31, 3374-3381.e5	6.3	5
20	First record of <i>Porolepis</i> (Sarcopterygii; Porolepiformes) from eastern Gondwana. <i>Canadian Journal of Earth Sciences</i> , <b>2013</b> , 50, 249-253	1.5	4
19	Tooth morphology elucidates shark evolution across the end-Cretaceous mass extinction. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001108	9.7	4
18	A putative upupiform bird from the Early Oligocene of the Central Western Carpathians and a review of fossil birds unearthed in Slovakia. <i>Acta Zoologica</i> , <b>2015</b> , 96, 45-59	0.8	3
17	Frasnian vertebrate taphonomy and sedimentology of macrofossil concentrations from the Langsde Cliff, Latvia. <i>Lethaia</i> , <b>2012</b> , 45, 356-370	1.3	3

16	A new tool for determining degrees of mineralization in fossil amphibian skeletons: The example of the Late Palaeozoic branchiosaurid <i>Apateon</i> from the Autun Basin, France. <i>Comptes Rendus - Palevol</i> , <b>2010</b> , 9, 311-317	1.6	3
15	Glimpsing the hidden majority. <i>Nature</i> , <b>1990</b> , 344, 23	50.4	3
14	A comparative genomic framework for the fish-tetrapod transition. <i>Science China Life Sciences</i> , <b>2021</b> , 64, 664-666	8.5	3
13	Endocast and Bony Labyrinth of a Devonian "Placoderm" Challenges Stem Gnathostome Phylogeny. <i>Current Biology</i> , <b>2021</b> , 31, 1112-1118.e4	6.3	3
12	Paleoenvironments revealed by rare-earth element systematics in vertebrate bioapatite from the Lower Devonian of Svalbard. <i>Canadian Journal of Earth Sciences</i> , <b>2016</b> , 53, 788-794	1.5	3
11	Ichthyostega in depth: Jarvik, E. 1996: The Devonian tetrapod <i>Ichthyostega</i> . <i>Fossils and Strata</i> 40.. <i>Lethaia</i> , <b>1996</b> , 29, 170-170	1.3	2
10	Therapsids and transformation series. <i>Nature</i> , <b>1993</b> , 361, 596-596	50.4	2
9	Feeding ecology has shaped the evolution of modern sharks. <i>Current Biology</i> , <b>2021</b> , 31, 5138-5148.e4	6.3	2
8	A new method for reconstructing brain morphology: applying the brain-neurocranial spatial relationship in an extant lungfish to a fossil endocast. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160307	3.3	2
7	Vascularization and odontode structure of a dorsal ridge spine of <i>Romundina stellina</i> Evig 1975. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189833	3.7	1
6	There's a ratfish in our cellar!. <i>Geology Today</i> , <b>1997</b> , 13, 20-23	0.4	1
5	Dental ontogeny in the most primitive bony fish <i>Lophosteus</i> reveals the developmental relationship between teeth and dermal odontodes		1
4	Age constraints for the <i>Trachilos</i> footprints from Crete. <i>Scientific Reports</i> , <b>2021</b> , 11, 19427	4.9	1
3	Sarcopterygians: From Lobe-Finned Fishes to the Tetrapod Stem Group. <i>Springer Handbook of Auditory Research</i> , <b>2016</b> , 51-70	1.2	0
2	Comments on the Squamation of Polish Lower Devonian Porolepiforms. <i>Journal of Vertebrate Paleontology</i> , <b>2019</b> , 39, e1738448	1.7	
1	Fossils, function and phylogeny: Papers on early vertebrate evolution in honour of Professor Jennifer A. Clack Introduction. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , <b>2018</b> , 109, 1-14	0.9	