Jakob Vinther

List of Publications by Year
in descending order

90 papers	5,578 citations	81839 39 h-index	85498 71 g-index
98 all docs	98 docs citations	98 times ranked	5012 citing authors

#	Article	IF	Citations
1	Recalibrating Equus evolution using the genome sequence of an early Middle Pleistocene horse. Nature, 2013, 499, 74-78.	13.7	717
2	Ordovician faunas of Burgess Shale type. Nature, 2010, 465, 215-218.	13.7	282
3	Cephalopod origin and evolution: A congruent picture emerging from fossils, development and molecules. BioEssays, 2011, 33, 602-613.	1.2	236
4	Plumage Color Patterns of an Extinct Dinosaur. Science, 2010, 327, 1369-1372.	6.0	224
5	Reconstruction of <i>Microraptor</i> and the Evolution of Iridescent Plumage. Science, 2012, 335, 1215-1219.	6.0	170
6	The colour of fossil feathers. Biology Letters, 2008, 4, 522-525.	1.0	167
7	Direct chemical evidence for eumelanin pigment from the Jurassic period. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10218-10223.	3.3	166
8	A placozoan affinity for <i>Dickinsonia</i> and the evolution of late Proterozoic metazoan feeding modes. Evolution & Development, 2010, 12, 201-209.	1.1	158
9	Fossil Evidence for Evolution of the Shape and Color of Penguin Feathers. Science, 2010, 330, 954-957.	6.0	153
10	A molecular palaeobiological exploration of arthropod terrestrialization. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150133.	1.8	131
11	The Early Cambrian Halkieria is a mollusc. Zoologica Scripta, 2005, 34, 81-89.	0.7	118
12	Machaeridians are Palaeozoic armoured annelids. Nature, 2008, 451, 185-188.	13.7	116
13	A suspension-feeding anomalocarid from the Early Cambrian. Nature, 2014, 507, 496-499.	13.7	112
14	Structural coloration in a fossil feather. Biology Letters, 2010, 6, 128-131.	1.0	100
15	Sophisticated digestive systems in early arthropods. Nature Communications, 2014, 5, 3641.	5.8	97
16	Chemical, experimental, and morphological evidence for diagenetically altered melanin in exceptionally preserved fossils. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12592-12597.	3.3	95
17	A guide to the field of palaeo colour. BioEssays, 2015, 37, 643-656.	1.2	93
18	Increasing species sampling in chelicerate genomic-scale datasets provides support for monophyly of Acari and Arachnida. Nature Communications, 2019, 10, 2295.	5.8	90

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19	A molecular palaeobiological hypothesis for the origin of aplacophoran molluscs and their derivation from chiton-like ancestors. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1259-1268.	1.2	86
20	Molecular clocks indicate turnover and diversification of modern coleoid cephalopods during the Mesozoic Marine Revolution. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162818.	1.2	86
21	Softâ€Bodied Fossils Are Not Simply Rotten Carcasses â€" Toward a Holistic Understanding of Exceptional Fossil Preservation. BioEssays, 2018, 40, 1700167.	1.2	84
22	An Exceptionally Preserved Three-Dimensional Armored Dinosaur Reveals Insights into Coloration and Cretaceous Predator-Prey Dynamics. Current Biology, 2017, 27, 2514-2521.e3.	1.8	81
23	Ancestral morphology of crown-group molluscs revealed by a new Ordovician stem aculiferan. Nature, 2017, 542, 471-474.	13.7	77
24	Pancrustacean Evolution Illuminated by Taxon-Rich Genomic-Scale Data Sets with an Expanded Remipede Sampling. Genome Biology and Evolution, 2019, 11, 2055-2070.	1.1	76
25	The origins of molluscs. Palaeontology, 2015, 58, 19-34.	1.0	74
26	New evidence on the colour and nature of the isolated Archaeopteryx feather. Nature Communications, 2012, 3, 637.	5.8	73
27	The origin of annelids. Palaeontology, 2014, 57, 1091-1103.	1.0	73
28	3D Camouflage in an Ornithischian Dinosaur. Current Biology, 2016, 26, 2456-2462.	1.8	72
29	Cambrian Sessile, Suspension Feeding Stem-Group Ctenophores and Evolution of the Comb Jelly Body Plan. Current Biology, 2019, 29, 1112-1125.e2.	1.8	58
30	Primitive Wing Feather Arrangement in Archaeopteryx lithographica and Anchiornis huxleyi. Current Biology, 2012, 22, 2262-2267.	1.8	57
31	Countershading and Stripes in the Theropod Dinosaur Sinosauropteryx Reveal Heterogeneous Habitats in the Early Cretaceous Jehol Biota. Current Biology, 2017, 27, 3337-3343.e2.	1.8	57
32	MicroRNAs resolve an apparent conflict between annelid systematics and their fossil record. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4315-4322.	1.2	54
33	An Early Cambrian stem polychaete with pygidial cirri. Biology Letters, 2011, 7, 929-932.	1.0	53
34	Biogeography of worm lizards (Amphisbaenia) driven by end-Cretaceous mass extinction. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143034.	1.2	52
35	Brain and eyes of Kerygmachela reveal protocerebral ancestry of the panarthropod head. Nature Communications, 2018, 9, 1019.	5.8	52
36	Buoyancy mechanisms limit preservation of coleoid cephalopod soft tissues in Mesozoic LagerstÃ¤tten. Palaeontology, 2017, 60, 1-14.	1.0	49

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37	Colour-producing Î²-keratin nanofibres in blue penguin (<i>Eudyptula minor</i>) feathers. Biology Letters, 2011, 7, 543-546.	1.0	48
38	The eyes of Tullimonstrum reveal a vertebrate affinity. Nature, 2016, 532, 500-503.	13.7	48
39	Low fossilization potential of keratin protein revealed by experimental taphonomy. Palaeontology, 2017, 60, 547-556.	1.0	47
40	Pigmented anatomy in Carboniferous cyclostomes and the evolution of the vertebrate eye. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161151.	1.2	44
41	A Cambrianâ€“Ordovician Terrestrialization of Arachnids. Frontiers in Genetics, 2020, 11, 182.	1.1	43
42	Nonbiomineralized carapaces in Cambrian seafloor landscapes (Sirius Passet, Greenland): Opening a new window into early Phanerozoic benthic ecology. Geology, 2012, 40, 519-522.	2.0	42
43	The impact of fossil data on annelid phylogeny inferred from discrete morphological characters. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161378.	1.2	41
44	Melanin Concentration Gradients in Modern and Fossil Feathers. PLoS ONE, 2013, 8, e59451.	1.1	39
45	THE CANAL SYSTEM IN SCLERITES OF LOWER CAMBRIAN<i>SINOSACHITES</i>(HALKIERIIDAE: SACHITIDA): SIGNIFICANCE FOR THE MOLLUSCAN AFFINITIES OF THE SACHITIDS. Palaeontology, 2009, 52, 689-712.	1.0	38
46	Cretaceous dinosaur bone contains recent organic material and provides an environment conducive to microbial communities. ELife, 2019, 8, .	2.8	38
47	Vetulicolians from the Lower Cambrian Sirius Passet LagerstÃtte, North Greenland, and the polarity of morphological characters in basal deuterostomes. Palaeontology, 2011, 54, 711-719.	1.0	30
48	Preservation of feather fibers from the Late Cretaceous dinosaur Shuvuuia deserti raises concern about immunohistochemical analyses on fossils. Organic Geochemistry, 2018, 125, 142-151.	0.9	30
49	A Cambrian crown annelid reconciles phylogenomics and the fossil record. Nature, 2020, 583, 249-252.	13.7	30
50	Cambrian stem-group annelids and a metameric origin of the annelid head. Biology Letters, 2015, 11, .	1.0	28
51	Structure and homology of <i>Psittacosaurus</i> tail bristles. Palaeontology, 2016, 59, 793-802.	1.0	28
52	The mouth apparatus of the Cambrian gilled lobopodian <i>Pambdelurion whittingtoni</i>. Palaeontology, 2016, 59, 841-849.	1.0	26
53	The origin of multiplacophorans â€“ convergent evolution in Aculiferan molluscs. Palaeontology, 2012, 55, 1007-1019.	1.0	25
54	Molecular palaeontology illuminates the evolution of ecdysozoan vision. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, .	1.2	25

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55	Unveiling biases in softâ€tissue phosphatization: extensive preservation of musculature in the Cretaceous (Cenomanian) polychaete <i>Rollinschaeta myoplena</i> (Annelida: Amphinomidae). Palaeontology, 2016, 59, 463-479.	1.0	24
56	Sedimentâ€encased maturation: a novel method for simulating diagenesis in organic fossil preservation. Palaeontology, 2019, 62, 135-150.	1.0	24
57	Melanosome diversity and convergence in the evolution of iridescent avian feathers-Implications for paleocolor reconstruction. Evolution; International Journal of Organic Evolution, 2019, 73, 15-27.	1.1	24
58	Onychophoranâ€like myoanatomy of the Cambrian gilled lobopodian <i>Pambdelurion whittingtoni</i>. Palaeontology, 2017, 60, 27-54.	1.0	22
59	Exceptional three-dimensional preservation and coloration of an originally iridescent fossil feather from the Middle Eocene Messel Oil Shale. Palaontologische Zeitschrift, 2013, 87, 493-503.	0.8	20
60	Chaetocladus gracilis n. sp., a non-calcified Dasycladales from the Upper Silurian of SkÃ¥ne, Sweden. Review of Palaeobotany and Palynology, 2006, 142, 153-160.	0.8	19
61	Ancestry, Origin and Early Evolution of Ammonoids. Topics in Geobiology, 2015, , 3-24.	0.6	19
62	Fossil melanosomes or bacteria? A wealth of findings favours melanosomes. BioEssays, 2016, 38, 220-225.	1.2	19
63	Multiple optimality criteria support Ornithoscelida. Royal Society Open Science, 2017, 4, 170833.	1.1	19
64	Bilateral Jaw Elements in Amiskwia sagittiformis Bridge the Morphological Gap between Gnathiferans and Chaetognaths. Current Biology, 2019, 29, 881-888.e1.	1.8	19
65	Reconstructing the ancestral annelid. Journal of Zoological Systematics and Evolutionary Research, 2012, 50, 85-87.	0.6	18
66	Characterization of melanosomes involved in the production of non-iridescent structural feather colours and their detection in the fossil record. Journal of the Royal Society Interface, 2019, 16, 20180921.	1.5	17
67	Additional information on the primitive contour and wing feathering of paravian dinosaurs. Palaeontology, 2018, 61, 273-288.	1.0	16
68	Rhetoric vs. reality: A commentary on â€œBird Origins Anewâ€• by A. Feduccia. Auk, 2015, 132, 467-480.	0.7	15
69	On the purported presence of fossilized collagen fibres in an ichthyosaur and a theropod dinosaur. Palaeontology, 2017, 60, 409-422.	1.0	15
70	Reconstructing Vertebrate Paleocolor. Annual Review of Earth and Planetary Sciences, 2020, 48, 345-375.	4.6	15
71	EXPERIMENTAL TAPHONOMY OF KERATIN: A STRUCTURAL ANALYSIS OF EARLY TAPHONOMIC CHANGES. Palaios, 2017, 32, 647-657.	0.6	14
72	Machaeridian locomotion. Lethaia, 2009, 42, 357-364.	0.6	13

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73	A new fireworm (Amphinomidae) from the Cretaceous of Lebanon identified from three-dimensionally preserved myoanatomy. BMC Evolutionary Biology, 2015, 15, 256.	3.2	13
74	Jaw elements in <i>Plumulites bengtsoni</i> confirm that machaeridians are extinct armoured scaleworms. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191247.	1.2	12
75	3. The Annelid Fossil Record. , 2019, , 69-88.		12
76	The first articulated specimen of <i>Plumulites canadensis</i> (Woodward, 1889) from the Upper Ordovician of Ontario, with a review of the anterior region of Plumulitidae (Annelida: Machaeridia). Palaeontology, 2010, 53, 327-334.	1.0	11
77	The oldest marine vertebrate fossil from the volcanic island of Iceland: a partial right whale skull from the high latitude Pliocene TjÃ¶rnes Formation. Palaeontology, 2017, 60, 141-148.	1.0	11
78	Preservation of uropygial gland lipids in a 48-million-year-old bird. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171050.	1.2	11
79	Was the Devonian placoderm <i>Titanichthys</i> a suspension feeder?. Royal Society Open Science, 2020, 7, 200272.	1.1	11
80	A molecular palaeobiological perspective on aculiferan evolution. Journal of Natural History, 2014, 48, 2805-2823.	0.2	10
81	Small shelly fossils and carbon isotopes from the early Cambrian (Stages 3â€“4) Mural Formation of western Laurentia. Papers in Palaeontology, 2021, 7, 951-983.	0.7	10
82	Three-dimensional modelling, disparity and ecology of the first Cambrian apex predators. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211176.	1.2	7
83	Animal Evolution: When Small Worms Cast Long Phylogenetic Shadows. Current Biology, 2015, 25, R762-R764.	1.8	6
84	A cloacal opening in a non-avian dinosaur. Current Biology, 2021, 31, R182-R183.	1.8	6
85	Comparative softâ€tissue preservation in Holoceneâ€age capelin concretions. Geobiology, 2022, 20, 377-398.	1.1	3
86	An early Cambrian mackenziid reveals links to modular Ediacaran macroâ€organisms. Papers in Palaeontology, 2022, 8, .	0.7	3
87	Experimental subaqueous burial of a bird carcass and compaction of plumage. Palaontologische Zeitschrift, 2018, 92, 727-732.	0.8	2
88	Palaeocolour: A History and State of the Art. Fascinating Life Sciences, 2020, , 185-211.	0.5	1
89	Presentation of the 2015 Paleontological Society Medal to Derek E. G. Briggs. Journal of Paleontology, 2017, 91, 1337-1338.	0.5	0
90	Jakob Vinther. Current Biology, 2018, 28, R1124-R1125.	1.8	0