

# John R Horner

## List of Publications by Year in descending order

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84  
papers

5,280  
citations

76326

40  
h-index

88630

70  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long bone histology of the hadrosaurid dinosaur <i>Maiasaura peeblesorum</i> : growth dynamics and physiology based on an ontogenetic series of skeletal elements. <i>Journal of Vertebrate Paleontology</i> , 2000, 20, 115-129.	1.0	299
2	Dinosaurian growth rates and bird origins. <i>Nature</i> , 2001, 412, 405-408.	27.8	235
3	Cranial design and function in a large theropod dinosaur. <i>Nature</i> , 2001, 409, 1033-1037.	27.8	219
4	Variation in dinosaur skeletochronology indicators: implications for age assessment and physiology. <i>Paleobiology</i> , 1999, 25, 295-304.	2.0	212
5	Biomolecular Characterization and Protein Sequences of the Campanian Hadrosaur <i>B. canadensis</i> . <i>Science</i> , 2009, 324, 626-631.	12.6	212
6	Analyses of Soft Tissue from <i>Tyrannosaurus rex</i> Suggest the Presence of Protein. <i>Science</i> , 2007, 316, 277-280.	12.6	187
7	Growth in small dinosaurs and pterosaurs: the evolution of archosaurian growth strategies. <i>Journal of Vertebrate Paleontology</i> , 2004, 24, 555-571.	1.0	177
8	Comparative osteohistology of some embryonic and perinatal archosaurs: developmental and behavioral implications for dinosaurs. <i>Paleobiology</i> , 2001, 27, 39-58.	2.0	173
9	Soft-Tissue Vessels and Cellular Preservation in <i>Tyrannosaurus rex</i> . <i>Science</i> , 2005, 307, 1952-1955.	12.6	143
10	On the bone histology of some Triassic pseudosuchian archosaurs and related taxa. <i>Annales De Paleontologie</i> , 2003, 89, 67-101.	0.5	138
11	On the origin of high growth rates in archosaurs and their ancient relatives: Complementary histological studies on Triassic archosauriforms and the problem of a "phylogenetic signal" in bone histology. <i>Annales De Paleontologie</i> , 2008, 94, 57-76.	0.5	136
12	Age and growth dynamics of <i>Tyrannosaurus rex</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1875-1880.	2.6	135
13	Gender-Specific Reproductive Tissue in Ratites and <i>Tyrannosaurus rex</i> . <i>Science</i> , 2005, 308, 1456-1460.	12.6	133
14	Cretaceous Extinctions: Multiple Causes. <i>Science</i> , 2010, 328, 973-973.	12.6	125
15	Embryos and eggs for the Cretaceous theropod dinosaur <i>Troodon formosus</i> . <i>Journal of Vertebrate Paleontology</i> , 2002, 22, 564-576.	1.0	121
16	Extreme Cranial Ontogeny in the Upper Cretaceous Dinosaur <i>Pachycephalosaurus</i> . <i>PLoS ONE</i> , 2009, 4, e7626.	2.5	119
17	The evolution and function of thyreophoran dinosaur scutes: implications for plate function in stegosaurs. <i>Paleobiology</i> , 2005, 31, 291-314.	2.0	110
18	<i>Torosaurus</i> Marsh, 1891, is <i>Triceratops</i> Marsh, 1889 (Ceratopsidae: Chasmosaurinae): synonymy through ontogeny. <i>Journal of Vertebrate Paleontology</i> , 2010, 30, 1157-1168.	1.0	108

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19	Osteohistological Evidence for Determinate Growth in the American Alligator. <i>Journal of Herpetology</i> , 2011, 45, 339-342.	0.5	107
20	Remarkable Preservation of Undigested Muscle Tissue Within a Late Cretaceous Tyrannosaurid Coprolite from Alberta, Canada. <i>Palaios</i> , 2003, 18, 286-294.	1.3	101
21	Soft tissue and cellular preservation in vertebrate skeletal elements from the Cretaceous to the present. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 183-197.	2.6	100
22	Major cranial changes during Triceratops ontogeny. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2757-2761.	2.6	97
23	Dinosaur Reproduction and Parenting. <i>Annual Review of Earth and Planetary Sciences</i> , 2000, 28, 19-45.	11.0	95
24	<i>Maiasaura</i> , a model organism for extinct vertebrate population biology: a large sample statistical assessment of growth dynamics and survivorship. <i>Paleobiology</i> , 2015, 41, 503-527.	2.0	89
25	Quantification of intraskeletal histovariability in <i>Alligator mississippiensis</i> and implications for vertebrate osteohistology. <i>PeerJ</i> , 2014, 2, e422.	2.0	85
26	Dinosaur Census Reveals Abundant Tyrannosaurus and Rare Ontogenetic Stages in the Upper Cretaceous Hell Creek Formation (Maastrichtian), Montana, USA. <i>PLoS ONE</i> , 2011, 6, e16574.	2.5	77
27	Cranial histology of pachycephalosaurs (Ornithischia: Marginocephalia) reveals transitory structures inconsistent with head-butting behavior. <i>Paleobiology</i> , 2004, 30, 253-267.	2.0	75
28	Egg clutches and embryos of two hadrosaurian dinosaurs. <i>Journal of Vertebrate Paleontology</i> , 1999, 19, 607-611.	1.0	64
29	Relative growth rates of predator and prey dinosaurs reflect effects of predation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2609-2615.	2.6	63
30	Fusion Patterns in the Skulls of Modern Archosaurs Reveal That Sutures Are Ambiguous Maturity Indicators for the Dinosauria. <i>PLoS ONE</i> , 2016, 11, e0147687.	2.5	62
31	Comparative long bone histology and growth of the †hypsilophodontid dinosaurs <i>Orodromeus makelai</i> , <i>Dryosaurus altus</i> , and <i>Tenontosaurus tilletii</i> (Ornithischia: Euornithopoda). <i>Journal of Vertebrate Paleontology</i> , 2009, 29, 734-747.	1.0	61
32	Ontogeny of cranial epi-ossifications in <i>Triceratops</i> . <i>Journal of Vertebrate Paleontology</i> , 2008, 28, 134-144.	1.0	58
33	The smallest known triceratops skull: new observations on ceratopsid cranial anatomy and ontogeny. <i>Journal of Vertebrate Paleontology</i> , 2006, 26, 103-112.	1.0	55
34	Reanalysis of † <i>Raptorex kriegsteini</i> : A Juvenile Tyrannosaurid Dinosaur from Mongolia. <i>PLoS ONE</i> , 2011, 6, e21376.	2.5	55
35	New unadorned hadrosaurine hadrosaurid (Dinosauria, Ornithopoda) from the Campanian of North America. <i>Journal of Vertebrate Paleontology</i> , 2011, 31, 798-811.	1.0	53
36	A New Brachylophosaurin Hadrosaur (Dinosauria: Ornithischia) with an Intermediate Nasal Crest from the Campanian Judith River Formation of Northcentral Montana. <i>PLoS ONE</i> , 2015, 10, e0141304.	2.5	51

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37	Evolutionary trends in <i>Triceratops</i> from the Hell Creek Formation, Montana. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10245-10250.	7.1	50
38	Growing up <i>Tyrannosaurus rex</i> : Osteohistology refutes the pygmy <i>Nanotyrannus</i> and supports ontogenetic niche partitioning in juvenile <i>Tyrannosaurus</i> . Science Advances, 2020, 6, eaax6250.	10.3	50
39	Preservation of biomolecules in cancellous bone of <i>Tyrannosaurus rex</i> . Journal of Vertebrate Paleontology, 1997, 17, 349-359.	1.0	49
40	A new neoceratopsian dinosaur linking North American and Asian taxa. Journal of Vertebrate Paleontology, 2007, 27, 625-641.	1.0	43
41	A study of a Troodon egg containing embryonic remains using epifluorescence microscopy and other techniques. Cretaceous Research, 2010, 31, 255-262.	1.4	42
42	Cranial Ontogeny in <i>Stegoceras validum</i> (Dinosauria: Pachycephalosauria): A Quantitative Model of Pachycephalosaur Dome Growth and Variation. PLoS ONE, 2011, 6, e21092.	2.5	42
43	From dinosaurs to birds: a tail of evolution. EvoDevo, 2014, 5, 25.	3.2	41
44	Common Avian Infection Plagued the Tyrant Dinosaurs. PLoS ONE, 2009, 4, e7288.	2.5	39
45	A hypothesis of differential secondary bone formation in dinosaurs. Comptes Rendus - Palevol, 2016, 15, 40-48.	0.2	32
46	Cannibalism in <i>Tyrannosaurus rex</i> . PLoS ONE, 2010, 5, e13419.	2.5	32
47	<i>Nedoceratops</i> : An Example of a Transitional Morphology. PLoS ONE, 2011, 6, e28705.	2.5	32
48	Ontogeny of the parietal frill of <i>Triceratops</i> : A preliminary histological analysis. Comptes Rendus - Palevol, 2011, 10, 439-452.	0.2	31
49	Comparative histology of some craniofacial sutures and skull base synchondroses in non-avian dinosaurs and their extant phylogenetic bracket. Journal of Anatomy, 2016, 229, 252-285.	1.5	29
50	Intravascular microstructures in trabecular bone tissues of <i>Tyrannosaurus rex</i> . Annales De Paleontologie, 1999, 85, 179-192.	0.5	27
51	Evidence of proteins, chromosomes and chemical markers of DNA in exceptionally preserved dinosaur cartilage. National Science Review, 2020, 7, 815-822.	9.5	27
52	Misconceptions of sexual selection and species recognition: a response to Knell et al. and to Mendelson and Shaw. Trends in Ecology and Evolution, 2013, 28, 249-250.	8.7	25
53	First Reported Cases of Biomechanically Adaptive Bone Modeling in Non-Avian Dinosaurs. PLoS ONE, 2015, 10, e0131131.	2.5	24
54	A sub-adult skull of <i>Hypacrosaurus stebingeri</i> (Ornithischia: Lambeosaurinae): anatomy and comparison. Historical Biology, 2011, 23, 63-72.	1.4	23

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55	First Evidence of Dinosaurian Secondary Cartilage in the Post-Hatching Skull of <i>Hypacrosaurus stebingeri</i> (Dinosauria, Ornithischia). <i>PLoS ONE</i> , 2012, 7, e36112.	2.5	23
56	Avian tail ontogeny, pygostyle formation, and interpretation of juvenile Mesozoic specimens. <i>Scientific Reports</i> , 2018, 8, 9014.	3.3	23
57	The species recognition hypothesis explains exaggerated structures in non-avian dinosaurs better than sexual selection does. <i>Comptes Rendus - Palevol</i> , 2014, 13, 97-107.	0.2	22
58	Mineralized tissues in dinosaurs interpreted as having formed through metaplasia: A preliminary evaluation. <i>Comptes Rendus - Palevol</i> , 2016, 15, 176-196.	0.2	21
59	Through the End of the Cretaceous in the Type Locality of the Hell Creek Formation in Montana and Adjacent Areas. , 2014, , .		19
60	Typology versus transformation in the origin of birds. <i>Trends in Ecology and Evolution</i> , 2002, 17, 120-124.	8.7	15
61	A silicified bird from Quaternary hot spring deposits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 905-911.	2.6	15
62	Vertebral Adaptations to Large Body Size in Theropod Dinosaurs. <i>PLoS ONE</i> , 2016, 11, e0158962.	2.5	15
63	Chondroid bone in dinosaur embryos and nestlings (Ornithischia: Hadrosauridae): Insights into the growth of the skull and the evolution of skeletal tissues. <i>Comptes Rendus - Palevol</i> , 2016, 15, 49-64.	0.2	15
64	Rare preservation of an incompletely ossified fossil embryo. <i>Journal of Vertebrate Paleontology</i> , 1997, 17, 431-434.	1.0	14
65	Secondary Cartilage Revealed in a Non-Avian Dinosaur Embryo. <i>PLoS ONE</i> , 2013, 8, e56937.	2.5	14
66	A new specimen of the ornithischian dinosaur <i>Hesperosaurus mjosi</i> from the Upper Jurassic Morrison Formation of Montana, U.S.A., and implications for growth and size in Morrison stegosaurs. <i>Journal of Vertebrate Paleontology</i> , 2018, 38, e1406366.	1.0	14
67	Ontogenetic changes in the long bone microstructure in the nine-banded armadillo ( <i>Dasypus</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	2.5	14
68	<i>Trierarchuncus prairiensis</i> gen. et sp. nov., the last alvarezsaurid: Hell Creek Formation (uppermost) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	1.4	13
69	Baby tyrannosaurid bones and teeth from the Late Cretaceous of western North America<sup>1</sup>. <i>Canadian Journal of Earth Sciences</i> , 2021, 58, 756-777.	1.3	12
70	The furcula in <i>Suchomimus tenerensis</i> and <i>Tyrannosaurus rex</i> (Dinosauria: Theropoda:) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	0.8	11
71	The interpretation of dinosaur growth patterns. <i>Trends in Ecology and Evolution</i> , 2006, 21, 596-597.	8.7	9
72	How Dinosaurs Grew So Large”And So Small. <i>Scientific American</i> , 2005, 293, 56-63.	1.0	8

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73	Distal spinal nerve development and divergence of avian groups. <i>Scientific Reports</i> , 2020, 10, 6303.	3.3	8
74	A remarkable group of thick-headed Triassic Period archosauromorphs with a wide, possibly Pangean distribution. <i>Journal of Anatomy</i> , 2021, 239, 184-206.	1.5	8
75	A diminutive deinonychosaur (Dinosauria: Theropoda) from the Early Cretaceous of <i>Ä–Äqsh</i> (Ä–vÄqrkhangai, Mongolia). <i>Alcheringa</i> , 2012, 36, 117-136.	1.2	5
76	Darwin's sexual selection: Understanding his ideas in context. <i>Comptes Rendus - Palevol</i> , 2014, 13, 709-715.	0.2	4
77	Cranial morphology of a juvenile <i>Triceratops</i> skull from the Hell Creek Formation, McCone County, Montana, with comments on the fossil record of ontogenetically younger skulls. , 2014, , .		3
78	Synchrotron Chemical and Structural Analysis of <i>Tyrannosaurus rex</i> Blood Vessels: The Contribution of Collagen Hypercrosslinking to Tissue Longevity. <i>Microscopy and Microanalysis</i> , 2014, 20, 1430-1431.	0.4	2
79	An Ion-exchange Bone Demineralization Method for Improved Time, Expense, and Tissue Preservation. <i>Journal of Histochemistry and Cytochemistry</i> , 2020, 68, 607-620.	2.5	2
80	Quantifying vascularity in the frontoparietal dome of <i>Stegoceras validum</i> (Dinosauria:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	1.0	2
81	Paleontology: A Cock's Comb on a Duck-Billed Dinosaur. <i>Current Biology</i> , 2014, 24, R85-R86.	3.9	1
82	Correction for Schweitzer et al. , Soft tissue and cellular preservation in vertebrate skeletal elements from the Cretaceous to the present. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 3183-3183.	2.6	0
83	Avian Dinosaur Tail Evolution and Bone Fracture Healing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
84	29. <i>Dinosaur Physiology</i> . , 2019, , 660-671.		0