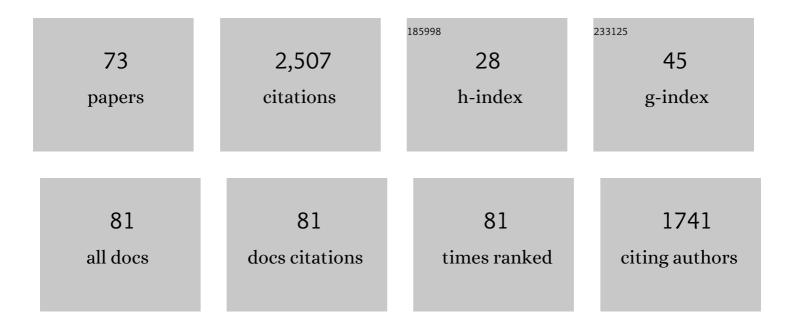
Stephanie E Pierce

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Three-dimensional limb joint mobility in the early tetrapod Ichthyostega. Nature, 2012, 486, 523-526.	13.7	171
2	Patterns of morphospace occupation and mechanical performance in extant crocodilian skulls: A combined geometric morphometric and finite element modeling approach. Journal of Morphology, 2008, 269, 840-864.	0.6	162
3	Combining geometric morphometrics and finite element analysis with evolutionary modeling: towards a synthesis. Journal of Vertebrate Paleontology, 2016, 36, e1111225.	0.4	97
4	Comparative axial morphology in pinnipeds and its correlation with aquatic locomotory behaviour. Journal of Anatomy, 2011, 219, 502-514.	0.9	91
5	Shape and mechanics in thalattosuchian (Crocodylomorpha) skulls: implications for feeding behaviour and niche partitioning. Journal of Anatomy, 2009, 215, 555-576.	0.9	90
6	Morphological and biomechanical disparity of crocodile-line archosaurs following the end-Triassic extinction. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131940.	1.2	83
7	Pelagosaurus typusBronn, 1841 (Mesoeucrocodylia: Thalattosuchia) from the Upper Lias (Toarcian,) Tj ETQq1 1	0.784314 0.4	rgBT /Overlo
8	Morphospace occupation in thalattosuchian crocodylomorphs: skull shape variation, species delineation and temporal patterns. Palaeontology, 2009, 52, 1057-1097.	1.0	72
9	Megaevolutionary dynamics and the timing of evolutionary innovation in reptiles. Nature Communications, 2020, 11, 3322.	5.8	66
10	Fossils reveal the complex evolutionary history of the mammalian regionalized spine. Science, 2018, 361, 1249-1252.	6.0	60
11	Virtual reconstruction of the endocranial anatomy of the early Jurassic marine crocodylomorph <i>Pelagosaurus typus</i> (Thalattosuchia). PeerJ, 2017, 5, e3225.	0.9	59
12	Evolution of the Sauropterygian Labyrinth with Increasingly Pelagic Lifestyles. Current Biology, 2017, 27, 3852-3858.e3.	1.8	58
13	Historical Perspectives on the Evolution of Tetrapodomorph Movement. Integrative and Comparative Biology, 2013, 53, 209-223.	0.9	57
14	Tail-propelled aquatic locomotion in a theropod dinosaur. Nature, 2020, 581, 67-70.	13.7	57
15	Adaptation and constraint in the evolution of the mammalian backbone. BMC Evolutionary Biology, 2018, 18, 172.	3.2	56
16	Heterochronic shifts and conserved embryonic shape underlie crocodylian craniofacial disparity and convergence. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182389.	1.2	52
17	Vertebral architecture in the earliest stem tetrapods. Nature, 2013, 494, 226-229.	13.7	51
18	Morphological and functional changes in the vertebral column with increasing aquatic adaptation in crocodylomorphs. Royal Society Open Science, 2015, 2, 150439.	1.1	51

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19	An experimental and morphometric test of the relationship between vertebral morphology and joint stiffness in Nile crocodiles (<i>Crocodylus niloticus</i>). Journal of Experimental Biology, 2014, 217, 758-768.	0.8	47
20	Cryptic complexity in felid vertebral evolution: shape differentiation and allometry of the axial skeleton. Zoological Journal of the Linnean Society, 2016, 178, 183-202.	1.0	42
21	Redescription and phylogenetic position of the Adriatic (Upper Cretaceous; Cenomanian) dolichosaurPontosaurus lesinensis(Kornhuber, 1873). Journal of Vertebrate Paleontology, 2004, 24, 373-386.	0.4	40
22	Sphenodontian phylogeny and the impact of model choice in Bayesian morphological clock estimates of divergence times and evolutionary rates. BMC Biology, 2020, 18, 191.	1.7	40
23	Regionalization of the axial skeleton predates functional adaptation in the forerunners of mammals. Nature Ecology and Evolution, 2020, 4, 470-478.	3.4	40
24	The scaling of postcranial muscles in cats (Felidae) I: forelimb, cervical, and thoracic muscles. Journal of Anatomy, 2016, 229, 128-141.	0.9	38
25	Pectoral girdle and forelimb musculoskeletal function in the echidna (<i>Tachyglossus aculeatus</i>) Tj ETQq1 1	0.784314 1.1	l rgBT /Over
26	Experimental determination of three-dimensional cervical joint mobility in the avian neck. Frontiers in Zoology, 2017, 14, 37.	0.9	36
27	Functional performance of turtle humerus shape across an ecological adaptive landscape. Evolution; International Journal of Organic Evolution, 2019, 73, 1265-1277.	1.1	36
28	Reconstructing pectoral appendicular muscle anatomy in fossil fish and tetrapods over the finsâ€ŧoâ€limbs transition. Biological Reviews, 2018, 93, 1077-1107.	4.7	34
29	Threeâ€dimensional mobility and muscle attachments in the pectoral limb of the Triassic cynodont <i>Massetognathus pascuali</i> (Romer, 1967). Journal of Anatomy, 2018, 232, 383-406.	0.9	33
30	Functional adaptive landscapes predict terrestrial capacity at the origin of limbs. Nature, 2021, 589, 242-245.	13.7	33
31	Ecological opportunity and the rise and fall of crocodylomorph evolutionary innovation. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210069.	1.2	33
32	Adaptive landscapes challenge the "lateral-to-sagittal―paradigm for mammalian vertebral evolution. Current Biology, 2021, 31, 1883-1892.e7.	1.8	33
33	Evolution of forelimb musculoskeletal function across the fish-to-tetrapod transition. Science Advances, 2021, 7, .	4.7	32
34	Mechanics of evolutionary digit reduction in fossil horses (Equidae). Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171174.	1.2	30
35	Regional differentiation of felidÂvertebral column evolution: a study of 3D shapeÂtrajectories. Organisms Diversity and Evolution, 2017, 17, 305-319.	0.7	28
36	The evolutionary diversity of locomotor innovation in rodents is not linked to proximal limb morphology. Scientific Reports, 2020, 10, 717.	1.6	26

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37	Big cat, small cat: reconstructing body size evolution in living and extinct Felidae. Journal of Evolutionary Biology, 2015, 28, 1516-1525.	0.8	23
38	Stepwise shifts underlie evolutionary trends in morphological complexity of the mammalian vertebral column. Nature Communications, 2019, 10, 5071.	5.8	23
39	Vertebral bending mechanics and xenarthrous morphology in the nine-banded armadillo (<i>Dasypus) Tj ETQq1 I</i>	1 0,784314 0.8	4 rgBT /Overl
40	The scaling of postcranial muscles in cats (Felidae) <scp>II</scp> : hindlimb and lumbosacral muscles. Journal of Anatomy, 2016, 229, 142-152.	0.9	22
41	Semicircular canals in <i>Anolis</i> lizards: ecomorphological convergence and ecomorph affinities of fossil species. Royal Society Open Science, 2017, 4, 170058.	1.1	22
42	Broad similarities in shoulder muscle architecture and organization across two amniotes: implications for reconstructing non-mammalian synapsids. PeerJ, 2020, 8, e8556.	0.9	21
43	The effects of skeletal asymmetry on interpreting biologic variation and taphonomy in the fossil record. Paleobiology, 2019, 45, 154-166.	1.3	20
44	Evolution of Hindlimb Muscle Anatomy Across the Tetrapod Waterâ€ŧo‣and Transition, Including Comparisons With Forelimb Anatomy. Anatomical Record, 2020, 303, 218-234.	0.8	20
45	Musculoskeletal modeling of sprawling and parasagittal forelimbs provides insight into synapsid postural transition. IScience, 2022, 25, 103578.	1.9	20
46	Sustained high rates of morphological evolution during the rise of tetrapods. Nature Ecology and Evolution, 2021, 5, 1403-1414.	3.4	19
47	Evolutionary parallelisms of pectoral and pelvic network-anatomy from fins to limbs. Science Advances, 2019, 5, eaau7459.	4.7	18
48	Inner ear morphology of diadectomorphs and seymouriamorphs (Tetrapoda) uncovered by highâ€resolution xâ€ray microcomputed tomography, and the origin of the amniote crown group. Palaeontology, 2020, 63, 131-154.	1.0	17
49	The Evolution of a Single Toe in Horses: Causes, Consequences, and the Way Forward. Integrative and Comparative Biology, 2019, 59, 638-655.	0.9	15
50	Patterns of Limb and Epaxial Muscle Activity During Walking in the Fire Salamander, <i>Salamandra salamandra</i> . Integrative Organismal Biology, 2020, 2, obaa015.	0.9	15
51	Feeding structures in the ray-finned fish <i>Eurynotus crenatus</i> (Actinopterygii: Eurynotiformes): implications for trophic diversification among Carboniferous actinopterygians. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 33-47.	0.3	14
52	Shoulder Muscle Architecture in the Echidna (Monotremata: Tachyglossus aculeatus) Indicates Conserved Functional Properties. Journal of Mammalian Evolution, 2020, 27, 591-603.	1.0	14
53	Homogenization of sample absorption for the imaging of large and dense fossils with synchrotron microtomography. Nature Protocols, 2013, 8, 1708-1717.	5.5	13
54	Axial allometry in a neutrally buoyant environment: effects of the terrestrialâ€aquatic transition on vertebral scaling. Journal of Evolutionary Biology, 2016, 29, 594-601.	0.8	13

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55	An exceptionally preserved Sphenodon-like sphenodontian reveals deep time conservation of the tuatara skeleton and ontogeny. Communications Biology, 2022, 5, 195.	2.0	13
56	Validation of an Echidna Forelimb Musculoskeletal Model Using XROMM and diceCT. Frontiers in Bioengineering and Biotechnology, 2021, 9, 751518.	2.0	12
57	Intercentrum versus pleurocentrum growth in early tetrapods: A paleohistological approach. Journal of Morphology, 2017, 278, 1262-1283.	0.6	11
58	How (and why) fins turn into limbs: insights from anglerfish. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 87-103.	0.3	11
59	Cranial and endocranial anatomy of a threeâ€dimensionally preserved teleosauroid thalattosuchian skull. Anatomical Record, 2022, 305, 2620-2653.	0.8	11
60	Whole-limb scaling of muscle mass and force-generating capacity in amniotes. PeerJ, 2021, 9, e12574.	0.9	11
61	Niche modeling reveals lack of broad-scale habitat partitioning in extinct horses of North America. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 511, 103-118.	1.0	10
62	AutoBend: An Automated Approach for Estimating Intervertebral Joint Function from Bone-Only Digital Models. Integrative Organismal Biology, 2021, 3, obab026.	0.9	10
63	Developmental origins of the crocodylian skull table and platyrostral face. Anatomical Record, 2022, 305, 2838-2853.	0.8	9
64	Frontoparietal Bone in Extinct Palaeobatrachidae (Anura): Its Variation and Taxonomic Value. Anatomical Record, 2015, 298, 1848-1863.	0.8	8
65	An Overview of Xenarthran Developmental Studies with a Focus on the Development of the Xenarthrous Vertebrae. Journal of Mammalian Evolution, 2018, 25, 507-523.	1.0	8
66	Spatiotemporal Distributions of Non-ophidian Ophidiomorphs, With Implications for Their Origin, Radiation, and Extinction. Frontiers in Earth Science, 2019, 7, .	0.8	6
67	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
68	Osteohistology of <i>Greererpeton</i> provides insight into the life history of an early Carboniferous tetrapod. Journal of Anatomy, 2021, 239, 1256-1272.	0.9	2
69	Size and shape regional differentiation during the development of the spine in the nineâ€banded armadillo (<i>Dasypus novemcinctus</i>). Evolution & Development, 2021, 23, 496-512.	1.1	2
70	Comparison of Hindlimb Muscle Architecture Properties in Small-Bodied, Generalist Mammals Suggests Similarity in Soft Tissue Anatomy. Journal of Mammalian Evolution, 2022, 29, 477-491.	1.0	1
71	Iterative Habitat Transitions are Associated with Morphological Convergence of the Backbone in Delphinoids. Journal of Mammalian Evolution, 0, , .	1.0	1
72	A Protocol for Prolonged Surgical Anaesthesia with Recovery in Fire Salamanders Using Tricaine Mesylate (MS-222): A Case Series. Laboratory Animals, 2022, 56, 540-549.	0.5	1

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73	Evolutionary Origins of Mammalian Axial Function Revealed through Digital Bending Experiments. FASEB Journal, 2022, 36, .	0.2	0