

Stephanie E Pierce

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

1,630
citations

23
h-index

38
g-index

81
ext. papers

2,137
ext. citations

7.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
69	Musculoskeletal modeling of sprawling and parasagittal forelimbs provides insight into synapsid postural transition. <i>iScience</i> , 2022 , 25, 103578	6.1	3
68	An exceptionally preserved Sphenodon-like sphenodontian reveals deep time conservation of the tuatara skeleton and ontogeny.. <i>Communications Biology</i> , 2022 , 5, 195	6.7	2
67	Validation of an Echidna Forelimb Musculoskeletal Model Using XROMM and diceCT. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 751518	5.8	7
66	Whole-limb scaling of muscle mass and force-generating capacity in amniotes.. <i>PeerJ</i> , 2021 , 9, e12574	3.1	1
65	Size and shape regional differentiation during the development of the spine in the nine-banded armadillo (<i>Dasyus novemcinctus</i>). <i>Evolution & Development</i> , 2021 , 23, 496	2.6	0
64	Ecological opportunity and the rise and fall of crocodylomorph evolutionary innovation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210069	4.4	15
63	Adaptive landscapes challenge the "lateral-to-sagittal" paradigm for mammalian vertebral evolution. <i>Current Biology</i> , 2021 , 31, 1883-1892.e7	6.3	9
62	Functional adaptive landscapes predict terrestrial capacity at the origin of limbs. <i>Nature</i> , 2021 , 589, 242-245	34.1	17
61	Osteohistology of Greererpeton provides insight into the life history of an early Carboniferous tetrapod. <i>Journal of Anatomy</i> , 2021 , 239, 1256-1272	2.9	1
60	Cranial and endocranial anatomy of a three-dimensionally preserved teleosauroid thalattosuchian skull. <i>Anatomical Record</i> , 2021 ,	2.1	3
59	Sustained high rates of morphological evolution during the rise of tetrapods. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1403-1414	12.3	4
58	AutoBend: An Automated Approach for Estimating Intervertebral Joint Function from Bone-Only Digital Models. <i>Integrative Organismal Biology</i> , 2021 , 3, obab026	2.3	3
57	Evolution of forelimb musculoskeletal function across the fish-to-tetrapod transition. <i>Science Advances</i> , 2021 , 7,	14.3	13
56	Sphenodontian phylogeny and the impact of model choice in Bayesian morphological clock estimates of divergence times and evolutionary rates. <i>BMC Biology</i> , 2020 , 18, 191	7.3	17
55	Shoulder Muscle Architecture in the Echidna (Monotremata: <i>Tachyglossus aculeatus</i>) Indicates Conserved Functional Properties. <i>Journal of Mammalian Evolution</i> , 2020 , 27, 591-603	2.2	7
54	Megaevolutionary dynamics and the timing of evolutionary innovation in reptiles. <i>Nature Communications</i> , 2020 , 11, 3322	17.4	28
53	The evolutionary diversity of locomotor innovation in rodents is not linked to proximal limb morphology. <i>Scientific Reports</i> , 2020 , 10, 717	4.9	15

52	Broad similarities in shoulder muscle architecture and organization across two amniotes: implications for reconstructing non-mammalian synapsids. <i>PeerJ</i> , 2020 , 8, e8556	3.1	11
51	Regionalization of the axial skeleton predates functional adaptation in the forerunners of mammals. <i>Nature Ecology and Evolution</i> , 2020 , 4, 470-478	12.3	17
50	Tail-propelled aquatic locomotion in a theropod dinosaur. <i>Nature</i> , 2020 , 581, 67-70	50.4	26
49	Inner ear morphology of diadectomorphs and seymouriamorphs (Tetrapoda) uncovered by high-resolution x-ray microcomputed tomography, and the origin of the amniote crown group. <i>Palaeontology</i> , 2020 , 63, 131-154	2.9	12
48	Patterns of Limb and Epaxial Muscle Activity During Walking in the Fire Salamander,. <i>Integrative Organismal Biology</i> , 2020 , 2, obaa015	2.3	5
47	A New Look at Carboniferous Rhizodontid Humeri (Sarcopterygii; Tetrapodomorpha). <i>Journal of Vertebrate Paleontology</i> , 2020 , 40, e1813150	1.7	0
46	Evolution of Hindlimb Muscle Anatomy Across the Tetrapod Water-to-Land Transition, Including Comparisons With Forelimb Anatomy. <i>Anatomical Record</i> , 2020 , 303, 218-234	2.1	15
45	Spatiotemporal Distributions of Non-ophidian Ophidiomorphs, With Implications for Their Origin, Radiation, and Extinction. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	5
44	The Evolution of a Single Toe in Horses: Causes, Consequences, and the Way Forward. <i>Integrative and Comparative Biology</i> , 2019 , 59, 638-655	2.8	5
43	Evolutionary parallelisms of pectoral and pelvic network-anatomy from fins to limbs. <i>Science Advances</i> , 2019 , 5, eaau7459	14.3	11
42	Functional performance of turtle humerus shape across an ecological adaptive landscape. <i>Evolution; International Journal of Organic Evolution</i> , 2019 , 73, 1265-1277	3.8	19
41	Heterochronic shifts and conserved embryonic shape underlie crocodylian craniofacial disparity and convergence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20182389	4.4	30
40	Stepwise shifts underlie evolutionary trends in morphological complexity of the mammalian vertebral column. <i>Nature Communications</i> , 2019 , 10, 5071	17.4	10
39	The effects of skeletal asymmetry on interpreting biologic variation and taphonomy in the fossil record. <i>Paleobiology</i> , 2019 , 45, 154-166	2.6	13
38	Three-dimensional mobility and muscle attachments in the pectoral limb of the Triassic cynodont <i>Massetognathus pascuali</i> (Romer, 1967). <i>Journal of Anatomy</i> , 2018 , 232, 383-406	2.9	17
37	An Overview of Xenarthran Developmental Studies with a Focus on the Development of the Xenarthrous Vertebrae. <i>Journal of Mammalian Evolution</i> , 2018 , 25, 507-523	2.2	4
36	Niche modeling reveals lack of broad-scale habitat partitioning in extinct horses of North America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018 , 511, 103-118	2.9	5
35	Reconstructing pectoral appendicular muscle anatomy in fossil fish and tetrapods over the fins-to-limbs transition. <i>Biological Reviews</i> , 2018 , 93, 1077-1107	13.5	24

34	Pectoral girdle and forelimb musculoskeletal function in the echidna (<i>Monotropa</i>): insights into mammalian locomotor evolution. <i>Royal Society Open Science</i> , 2018 , 5, 181400	3.3	21
33	Adaptation and constraint in the evolution of the mammalian backbone. <i>BMC Evolutionary Biology</i> , 2018 , 18, 172	3	31
32	How (and why) fins turn into limbs: insights from anglerfish. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018 , 109, 87-103	0.9	7
31	Feeding structures in the ray-finned fish <i>Eurynotus crenatus</i> (Actinopterygii: Eurynotiformes): implications for trophic diversification among Carboniferous actinopterygians. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018 , 109, 33-47	0.9	4
30	Fossils reveal the complex evolutionary history of the mammalian regionalized spine. <i>Science</i> , 2018 , 361, 1249-1252	33.3	35
29	Intercentrum versus pleurocentrum growth in early tetrapods: A paleohistological approach. <i>Journal of Morphology</i> , 2017 , 278, 1262-1283	1.6	7
28	Semicircular canals in lizards: ecomorphological convergence and ecomorph affinities of fossil species. <i>Royal Society Open Science</i> , 2017 , 4, 170058	3.3	15
27	Mechanics of evolutionary digit reduction in fossil horses (Equidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	22
26	Experimental determination of three-dimensional cervical joint mobility in the avian neck. <i>Frontiers in Zoology</i> , 2017 , 14, 37	2.8	17
25	Evolution of the Sauropterygian Labyrinth with Increasingly Pelagic Lifestyles. <i>Current Biology</i> , 2017 , 27, 3852-3858.e3	6.3	42
24	Regional differentiation of felid vertebral column evolution: a study of 3D shape trajectories. <i>Organisms Diversity and Evolution</i> , 2017 , 17, 305-319	1.7	22
23	Virtual reconstruction of the endocranial anatomy of the early Jurassic marine crocodylomorph (Thalattosuchia). <i>PeerJ</i> , 2017 , 5, e3225	3.1	38
22	Cryptic complexity in felid vertebral evolution: shape differentiation and allometry of the axial skeleton. <i>Zoological Journal of the Linnean Society</i> , 2016 , 178, 183-202	2.4	37
21	Combining geometric morphometrics and finite element analysis with evolutionary modeling: towards a synthesis. <i>Journal of Vertebrate Paleontology</i> , 2016 , 36, e1111225	1.7	68
20	Axial allometry in a neutrally buoyant environment: effects of the terrestrial-aquatic transition on vertebral scaling. <i>Journal of Evolutionary Biology</i> , 2016 , 29, 594-601	2.3	9
19	Vertebral bending mechanics and xenarthrous morphology in the nine-banded armadillo (<i>Dasypus novemcinctus</i>). <i>Journal of Experimental Biology</i> , 2016 , 219, 2991-3002	3	17
18	The scaling of postcranial muscles in cats (Felidae) II: hindlimb and lumbosacral muscles. <i>Journal of Anatomy</i> , 2016 , 229, 142-52	2.9	18
17	The scaling of postcranial muscles in cats (Felidae) I: forelimb, cervical, and thoracic muscles. <i>Journal of Anatomy</i> , 2016 , 229, 128-41	2.9	27

16	Frontoparietal Bone in Extinct Palaeobatrachidae (Anura): Its Variation and Taxonomic Value. <i>Anatomical Record</i> , 2015 , 298, 1848-63	2.1	5
15	Big cat, small cat: reconstructing body size evolution in living and extinct Felidae. <i>Journal of Evolutionary Biology</i> , 2015 , 28, 1516-25	2.3	16
14	Morphological and functional changes in the vertebral column with increasing aquatic adaptation in crocodylomorphs. <i>Royal Society Open Science</i> , 2015 , 2, 150439	3.3	29
13	An experimental and morphometric test of the relationship between vertebral morphology and joint stiffness in Nile crocodiles (<i>Crocodylus niloticus</i>). <i>Journal of Experimental Biology</i> , 2014 , 217, 758-68 ³		32
12	Vertebral architecture in the earliest stem tetrapods. <i>Nature</i> , 2013 , 494, 226-9	50.4	42
11	Morphological and biomechanical disparity of crocodile-line archosaurs following the end-Triassic extinction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131940	4.4	65
10	Historical perspectives on the evolution of tetrapodomorph movement. <i>Integrative and Comparative Biology</i> , 2013 , 53, 209-23	2.8	44
9	Homogenization of sample absorption for the imaging of large and dense fossils with synchrotron microtomography. <i>Nature Protocols</i> , 2013 , 8, 1708-17	18.8	11
8	Three-dimensional limb joint mobility in the early tetrapod <i>Ichthyostega</i> . <i>Nature</i> , 2012 , 486, 523-6	50.4	138
7	Comparative axial morphology in pinnipeds and its correlation with aquatic locomotory behaviour. <i>Journal of Anatomy</i> , 2011 , 219, 502-14	2.9	57
6	Morphospace occupation in thalattosuchian crocodylomorphs: skull shape variation, species delineation and temporal patterns. <i>Palaeontology</i> , 2009 , 52, 1057-1097	2.9	66
5	Shape and mechanics in thalattosuchian (Crocodylomorpha) skulls: implications for feeding behaviour and niche partitioning. <i>Journal of Anatomy</i> , 2009 , 215, 555-76	2.9	75
4	Patterns of morphospace occupation and mechanical performance in extant crocodylian skulls: a combined geometric morphometric and finite element modeling approach. <i>Journal of Morphology</i> , 2008 , 269, 840-64	1.6	138
3	<i>Pelagosaurus typus</i> Bronn, 1841 (Mesoeucrocodylia: Thalattosuchia) from the Upper Lias (Toarcian, Lower Jurassic) of Somerset, England. <i>Journal of Vertebrate Paleontology</i> , 2006 , 26, 621-635	1.7	65
2	Redescription and phylogenetic position of the Adriatic (Upper Cretaceous; Cenomanian) dolichosaur <i>Pontosaurus lesinensis</i> (Kornhuber, 1873). <i>Journal of Vertebrate Paleontology</i> , 2004 , 24, 373-386 ^{1,7}		36
1	Comparison of Hindlimb Muscle Architecture Properties in Small-Bodied, Generalist Mammals Suggests Similarity in Soft Tissue Anatomy. <i>Journal of Mammalian Evolution</i> , 1	2.2	