

Paul O'Higgins

List of Publications by Year in descending order

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82
papers

4,644
citations

81839

39
h-index

102432

66
g-index

84
all docs

84
docs citations

84
times ranked

3575
citing authors

#	ARTICLE	IF	CITATIONS
1	Facial growth in <i>Cercocebus torquatus</i> : an application of three-dimensional geometric morphometric techniques to the study of morphological variation. <i>Journal of Anatomy</i> , 1998, 193, 251-272.	0.9	352
2	The study of morphological variation in the hominid fossil record: biology, landmarks and geometry. <i>Journal of Anatomy</i> , 2000, 197, 103-120.	0.9	321
3	The earliest evidence for anatomically modern humans in northwestern Europe. <i>Nature</i> , 2011, 479, 521-524.	13.7	285
4	A geometric morphometric study of regional differences in the ontogeny of the modern human facial skeleton+. <i>Journal of Anatomy</i> , 2002, 201, 211-229.	0.9	222
5	Craniofacial levels and the morphological maturation of the human skull. <i>Journal of Anatomy</i> , 2006, 209, 637-654.	0.9	220
6	Sexual Dimorphism in the Subadult Mandible: Quantification Using Geometric Morphometrics. <i>Journal of Forensic Sciences</i> , 2007, 52, 6-10.	0.9	121
7	Differential Growth and Development of the Upper and Lower Human Thorax. <i>PLoS ONE</i> , 2013, 8, e75128.	1.1	115
8	Ontogeny and homoplasy in the papionin monkey face. <i>Evolution & Development</i> , 2001, 3, 322-331.	1.1	107
9	Middle Cranial Fossa Anatomy and the Origin of Modern Humans. <i>Anatomical Record</i> , 2008, 291, 130-140.	0.8	100
10	Assessment of the role of sutures in a lizard skull: a computer modelling study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 39-46.	1.2	100
11	Human mandibular shape is associated with masticatory muscle force. <i>Scientific Reports</i> , 2018, 8, 6042.	1.6	99
12	Facial ontogeny in Neanderthals and modern humans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1125-1132.	1.2	96
13	Combining geometric morphometrics and functional simulation: an emerging toolkit for virtual functional analyses. <i>Journal of Anatomy</i> , 2011, 218, 3-15.	0.9	95
14	Geometric morphometric analysis of fish scales for identifying genera, species, and local populations within the Mugilidae. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 1091-1100.	0.7	83
15	The shape of the mandibular corpus in large fissiped carnivores: allometry, function and phylogeny. <i>Zoological Journal of the Linnean Society</i> , 2008, 154, 832-845.	1.0	83
16	Sexual dimorphism in hominoids: further studies of craniofacial shape differences in Pan, Gorilla and Pongo. <i>Journal of Human Evolution</i> , 1993, 24, 183-205.	1.3	82
17	Patterns of morphological evolution in <i>Marmota</i> (Rodentia, Sciuridae): geometric morphometrics of the cranium in the context of marmot phylogeny, ecology and conservation. <i>Biological Journal of the Linnean Society</i> , 2004, 82, 385-407.	0.7	82
18	Sexual dimorphism and facial growth in papionin monkeys. <i>Journal of Zoology</i> , 2002, 257, 255-272.	0.8	79

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19	Biology Clearly Needs Morphometrics. Does Morphometrics Need Biology?. <i>Biological Theory</i> , 2009, 4, 84-97.	0.8	76
20	Extreme climate, rather than population history, explains mid- <i>facial morphology of northern asians. American Journal of Physical Anthropology</i> , 2014, 153, 449-462.	2.1	76
21	Seeing Distinct Groups Where There are None: Spurious Patterns from Between-Group PCA. <i>Evolutionary Biology</i> , 2019, 46, 303-316.	0.5	74
22	Facial growth and the ontogeny of morphological variation within and between the primates <i>Cebus apella</i> and <i>Cercocebus torquatus</i> . <i>Journal of Zoology</i> , 2001, 254, 337-357.	0.8	73
23	Concordance of traditional osteometric and volume-rendered MSCT interlandmark cranial measurements. <i>International Journal of Legal Medicine</i> , 2013, 127, 505-520.	1.2	71
24	The Head and Neck Anatomy of Sea Turtles (Cryptodira: Chelonioidea) and Skull Shape in Testudines. <i>PLoS ONE</i> , 2012, 7, e47852.	1.1	67
25	Predicting Skull Loading: Applying Multibody Dynamics Analysis to a Macaque Skull. <i>Anatomical Record</i> , 2008, 291, 491-501.	0.8	63
26	Climate change research and action must look beyond 2100. <i>Global Change Biology</i> , 2022, 28, 349-361.	4.2	63
27	Anterior sphenoid in modern humans. <i>Nature</i> , 1999, 397, 572-572.	13.7	61
28	Modeling the Human Mandible Under Masticatory Loads: Which Input Variables are Important?. <i>Anatomical Record</i> , 2012, 295, 853-863.	0.8	61
29	The evolutionary history of the human face. <i>Nature Ecology and Evolution</i> , 2019, 3, 726-736.	3.4	57
30	The ontogeny of sexual dimorphism in the facial skeleton of the African apes. <i>Journal of Human Evolution</i> , 2007, 53, 176-190.	1.3	56
31	Biomechanical assessment of evolutionary changes in the lepidosaurian skull. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8273-8277.	3.3	54
32	Why do humans have chins? Testing the mechanical significance of modern human symphyseal morphology with finite element analysis. <i>American Journal of Physical Anthropology</i> , 2011, 144, 593-606.	2.1	53
33	Post-natal ontogeny of the mandible and ventral cranium in <i>Marmota</i> species (Rodentia, Sciuridae): allometry and phylogeny. <i>Zoomorphology</i> , 2005, 124, 189-203.	0.4	52
34	The Impact of Simplifications on the Performance of a Finite Element Model of a <i>M. acaca fascicularis</i> Cranium. <i>Anatomical Record</i> , 2015, 298, 107-121.	0.8	51
35	The relationship between skull morphology, masticatory muscle force and cranial skeletal deformation during biting. <i>Annals of Anatomy</i> , 2016, 203, 59-68.	1.0	50
36	Predicting muscle activation patterns from motion and anatomy: modelling the skull of <i>Sphenodon</i> (Diapsida: Rhynchocephalia). <i>Journal of the Royal Society Interface</i> , 2010, 7, 153-160.	1.5	49

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37	Supraorbital morphology and social dynamics in human evolution. <i>Nature Ecology and Evolution</i> , 2018, 2, 956-961.	3.4	47
38	Determination of Sex in South African Blacks by Discriminant Function Analysis of Mandibular Linear Dimensions: A Preliminary Investigation Using the Zulu Local Population. <i>Forensic Science, Medicine, and Pathology</i> , 2006, 2, 263-268.	0.6	45
39	Inter-specific variation in <i>Macropus</i> crania: form, function and phylogeny. <i>Journal of Zoology</i> , 2006, 256, 523-535.	0.8	44
40	Validity and sensitivity of a human cranial finite element model: implications for comparative studies of biting performance. <i>Journal of Anatomy</i> , 2016, 228, 70-84.	0.9	41
41	Facial Morphogenesis of the Earliest Europeans. <i>PLoS ONE</i> , 2013, 8, e65199.	1.1	40
42	Shearing Mechanics and the Influence of a Flexible Symphysis During Oral Food Processing in <i>Sphenodon</i> (Lepidosauria: Rhynchocephalia). <i>Anatomical Record</i> , 2012, 295, 1075-1091.	0.8	37
43	Sexual dimorphism and population variation in the adult mandible. <i>Forensic Science, Medicine, and Pathology</i> , 2007, 3, 15-22.	0.6	35
44	Shaping the human face. <i>International Congress Series</i> , 2006, 1296, 55-73.	0.2	33
45	3D Analysis of Thoracic Kinematics: Changes in Size and Shape during Breathing and their Implications for Respiratory Function in Recent Humans and Fossil Hominins. <i>Anatomical Record</i> , 2017, 300, 255-264.	0.8	32
46	Mandibular morphology as an indicator of human subadult age: geometric morphometric approaches. <i>Forensic Science, Medicine, and Pathology</i> , 2008, 4, 91-99.	0.6	31
47	The application of muscle wrapping to voxel-based finite element models of skeletal structures. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 35-47.	1.4	31
48	Variation in elasmoid fish scale patterns is informative with regard to taxon and swimming mode. <i>Zoological Journal of the Linnean Society</i> , 2009, 155, 834-844.	1.0	29
49	Developing a musculoskeletal model of the primate skull: Predicting muscle activations, bite force, and joint reaction forces using multibody dynamics analysis and advanced optimisation methods. <i>Journal of Theoretical Biology</i> , 2012, 310, 21-30.	0.8	29
50	The Effect of Varying Jaw Elevator Muscle Forces on a Finite Element Model of a Human Cranium. <i>Anatomical Record</i> , 2016, 299, 828-839.	0.8	28
51	Virtual Functional Morphology: Novel Approaches to the Study of Craniofacial Form and Function. <i>Evolutionary Biology</i> , 2012, 39, 521-535.	0.5	27
52	Ontogeny of the maxilla in Neanderthals and their ancestors. <i>Nature Communications</i> , 2015, 6, 8996.	5.8	27
53	Scaling of form and function in the xenarthran femur: a 100-fold increase in body mass is mitigated by repositioning of the third trochanter. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3449-3456.	1.2	24
54	Morphological variation of the thoracolumbar vertebrae in <i>Macropodidae</i> and its functional relevance. <i>Journal of Morphology</i> , 2005, 266, 167-181.	0.6	23

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55	morphomap: An R package for long bone landmarking, cortical thickness, and cross-sectional geometry mapping. <i>American Journal of Physical Anthropology</i> , 2021, 174, 129-139.	2.1	22
56	ANTHROPOLOGY: Walking on Trees. <i>Science</i> , 2007, 316, 1292-1294.	6.0	21
57	Middle Pliocene hominin diversity: <i>Australopithecus deyiremeda</i> and <i>Kenyanthropus platyops</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150231.	1.8	21
58	Clines in Africa: does size vary in the same way among widespread sub-Saharan monkeys?. <i>Journal of Biogeography</i> , 2013, 40, 370-381.	1.4	20
59	The Predictability from Skull Morphology of Temporalis and Masseter Muscle Cross-sectional Areas in Humans. <i>Anatomical Record</i> , 2015, 298, 1261-1270.	0.8	17
60	Three-dimensional analysis of sexual dimorphism in ribcage kinematics of modern humans. <i>American Journal of Physical Anthropology</i> , 2019, 169, 348-355.	2.1	17
61	Methodological issues in the description of forms. , 1997, , 74-105.		17
62	Geometric morphometrics and finite elements analysis: Assessing the functional implications of differences in craniofacial form in the hominin fossil record. <i>Journal of Archaeological Science</i> , 2019, 101, 159-168.	1.2	15
63	The biomechanical significance of the frontal sinus in Kabwe 1 (<i>Homo heidelbergensis</i>). <i>Journal of Human Evolution</i> , 2018, 114, 141-153.	1.3	14
64	A Major Change in Rate of Climate Niche Envelope Evolution during Hominid History. <i>IScience</i> , 2020, 23, 101693.	1.9	14
65	Finite element analysis of the cranium: Validity, sensitivity and future directions. <i>Comptes Rendus - Palevol</i> , 2017, 16, 600-612.	0.1	13
66	Jaw kinematics and mandibular morphology in humans. <i>Journal of Human Evolution</i> , 2020, 139, 102639.	1.3	13
67	The biting performance of <i>Homo sapiens</i> and <i>Homo heidelbergensis</i> . <i>Journal of Human Evolution</i> , 2018, 118, 56-71.	1.3	12
68	Distinct growth of the nasomaxillary complex in <i>Au. sediba</i> . <i>Scientific Reports</i> , 2015, 5, 15175.	1.6	10
69	3D Modeling of craniofacial ontogeny and sexual dimorphism in children. <i>Anatomical Record</i> , 2021, 304, 1918-1926.	0.8	9
70	Can diet be inferred from the biomechanical response to simulated biting in modern and pre-historic human mandibles?. <i>Journal of Archaeological Science: Reports</i> , 2018, 22, 433-443.	0.2	8
71	A sensitivity study of human mandibular biting simulations using finite element analysis. <i>Journal of Archaeological Science: Reports</i> , 2018, 22, 420-432.	0.2	7
72	Facial growth in <i>Cercocebus torquatus</i> : an application of three-dimensional geometric morphometric techniques to the study of morphological variation. , 0, .		7

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73	Assessing the reliability of virtual reconstruction of mandibles. <i>American Journal of Physical Anthropology</i> , 2020, 172, 723-734.	2.1	6
74	Advances in the analysis of form and pattern: facial growth in African colobines. , 2004, , 24-44.		5
75	Growing old: Do women and men age differently?. <i>Anatomical Record</i> , 2021, 304, 1800-1810.	0.8	4
76	The role of the nasal region in craniofacial growth: An investigation using path analysis. <i>Anatomical Record</i> , 2022, 305, 1892-1909.	0.8	4
77	Why such long faces? A response to Eugene E. Harris. <i>Evolution & Development</i> , 2002, 4, 169-169.	1.1	3
78	Late subadult ontogeny and adult aging of the human thorax reveals divergent growth trajectories between sexes. <i>Scientific Reports</i> , 2020, 10, 10737.	1.6	3
79	Morphometric Maps of Bilateral Asymmetry in the Human Humerus: An Implementation in the R Package Morphomap. <i>Symmetry</i> , 2021, 13, 1711.	1.1	3
80	Applying Geometric Morphometrics to Digital Reconstruction and Anatomical Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1171, 55-71.	0.8	3
81	Shearing Mechanics and the Influence of a Flexible Symphysis During Oral Food Processing in <i>Sphenodon</i> (Lepidosauria: Rhynchocephalia). <i>Anatomical Record</i> , 2012, 295, C1-C1.	0.8	0
82	Comparing the Distribution of Strains with the Distribution of Bone Tissue in a Human Mandible: A Finite Element Study. <i>Anatomical Record</i> , 2013, 296, C1-C1.	0.8	0