

Philipp Mitteroecker

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

6,573
citations

109137

35
h-index

74018

75
g-index

86
all docs

86
docs citations

86
times ranked

4980
citing authors

#	ARTICLE	IF	CITATIONS
1	Age dependent changes in pelvic shape during adulthood. <i>Anthropologischer Anzeiger</i> , 2022, 79, 143-156.	0.2	3
2	Are parturition scars truly signs of birth? The estimation of parity in a well-documented modern sample. <i>International Journal of Osteoarchaeology</i> , 2022, 32, 619-629.	0.6	3
3	The microstructure and the origin of the Venus from Willendorf. <i>Scientific Reports</i> , 2022, 12, 2926.	1.6	9
4	Thirty years of geometric morphometrics: Achievements, challenges, and the ongoing quest for biological meaningfulness. <i>American Journal of Biological Anthropology</i> , 2022, 178, 181-210.	0.6	35
5	The association of parturition scars and pelvic shape: A geometric morphometric study. <i>American Journal of Physical Anthropology</i> , 2021, 174, 519-531.	2.1	7
6	A model of developmental canalization, applied to human cranial form. <i>PLoS Computational Biology</i> , 2021, 17, e1008381.	1.5	3
7	Les différences entre populations de la forme du bassin humain ont-elles évolué par drive ou par sélection ?. <i>Bulletins Et Memoires De La Societe D'Anthropologie De Paris</i> , 2021, 33, .	0.0	5
8	Sex differences in the pelvis did not evolve de novo in modern humans. <i>Nature Ecology and Evolution</i> , 2021, 5, 625-630.	3.4	13
9	Sacrum morphology supports taxonomic heterogeneity of "Australopithecus africanus" at Sterkfontein Member 4. <i>Communications Biology</i> , 2021, 4, 347.	2.0	5
10	Respiratory adaptation to climate in modern humans and Upper Palaeolithic individuals from Sungir and Mladeč. <i>Scientific Reports</i> , 2021, 11, 7997.	1.6	13
11	Biomechanical trade-offs in the pelvic floor constrain the evolution of the human birth canal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
12	Three-dimensional surface scanning methods in osteology: A topographical and geometric morphometric comparison. <i>American Journal of Physical Anthropology</i> , 2021, 174, 846-858.	2.1	41
13	Detecting Phylogenetic Signal and Adaptation in Papionin Cranial Shape by Decomposing Variation at Different Spatial Scales. <i>Systematic Biology</i> , 2021, 70, 694-706.	2.7	9
14	The evolution of pelvic canal shape and rotational birth in humans. <i>BMC Biology</i> , 2021, 19, 224.	1.7	14
15	Evolution of the human pelvis and obstructed labor: new explanations of an old obstetrical dilemma. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 222, 3-16.	0.7	69
16	Evolution of the Mammalian Ear: An Evolvability Hypothesis. <i>Evolutionary Biology</i> , 2020, 47, 187-192.	0.5	7
17	Morphometric Variation at Different Spatial Scales: Coordination and Compensation in the Emergence of Organismal Form. <i>Systematic Biology</i> , 2020, 69, 913-926.	2.7	19
18	Evolution of brain lateralization: A shared hominid pattern of endocranial asymmetry is much more variable in humans than in great apes. <i>Science Advances</i> , 2020, 6, eaax9935.	4.7	60

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19	Morphometrics in Evolutionary Developmental Biology. , 2020, , 1-11.		5
20	Multivariate comparison of variance in R. Methods in Ecology and Evolution, 2019, 10, 1380-1392.	2.2	15
21	Facial aging trajectories: A common shape pattern in male and female faces is disrupted after menopause. American Journal of Physical Anthropology, 2019, 169, 678-688.	2.1	56
22	Secular changes in body height predict global rates of caesarean section. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182425.	1.2	10
23	Humans as inverted bats: A comparative approach to the obstetric conundrum. American Journal of Human Biology, 2019, 31, e23227.	0.8	29
24	How human bodies are evolving in modern societies. Nature Ecology and Evolution, 2019, 3, 324-326.	3.4	14
25	From Jumbo to Dumbo: Cranial Shape Changes in Elephants and Hippos During Phyletic Dwarfing. Evolutionary Biology, 2018, 45, 303-317.	0.5	22
26	A multivariate ecogeographic analysis of macaque craniodental variation. American Journal of Physical Anthropology, 2018, 166, 386-400.	2.1	13
27	The Fetal Origin of the Human Chin. Evolutionary Biology, 2017, 44, 295-311.	0.5	4
28	Reply to Grossman: The role of natural selection for the increase of Caesarean section rates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1305.	3.3	3
29	Allometry and Sexual Dimorphism in the Human Pelvis. Anatomical Record, 2017, 300, 698-705.	0.8	60
30	Cliff-edge model predicts intergenerational predisposition to dystocia and Caesarean delivery. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11669-11672.	3.3	18
31	BMI and WHR Are Reflected in Female Facial Shape and Texture: A Geometric Morphometric Image Analysis. PLoS ONE, 2017, 12, e0169336.	1.1	30
32	Genetic structure of phenotypic robustness in the collaborative cross mouse diallel panel. Journal of Evolutionary Biology, 2016, 29, 1737-1751.	0.8	19
33	Cliff-edge model of obstetric selection in humans. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14680-14685.	3.3	62
34	Development Shapes a Consistent Inbreeding Effect in Mouse Crania of Different Line Crosses. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2016, 326, 474-488.	0.6	11
35	Second premolar agenesis is associated with mandibular form: a geometric morphometric analysis of mandibular cross-sections. International Journal of Oral Science, 2016, 8, 254-260.	3.6	14
36	Adult pelvic shape change is an evolutionary side effect. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3596-E3596.	3.3	15

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37	Multivariate Analysis of Genotypeâ€“Phenotype Association. <i>Genetics</i> , 2016, 202, 1345-1363.	1.2	33
38	Reply to Underdown and Oppenheimer: Roles of selection, plasticity, and genetics in the integration of human pelvis shape and head size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E259-E259.	3.3	0
39	A combined morphometric analysis of foot form and its association with sex, stature, and body mass. <i>American Journal of Physical Anthropology</i> , 2015, 157, 582-591.	2.1	23
40	The Morphometrics of â€œMasculinityâ€•in Human Faces. <i>PLoS ONE</i> , 2015, 10, e0118374.	1.1	55
41	Systems mapping has potential to overcome inherent problems of genetic mapping. <i>Physics of Life Reviews</i> , 2015, 13, 190-191.	1.5	2
42	Covariation between human pelvis shape, stature, and head size alleviates the obstetric dilemma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5655-5660.	3.3	94
43	Evolution of body shape in sympatric versus non-sympatric <i>Tropheus</i> populations of Lake Tanganyika. <i>Heredity</i> , 2014, 112, 89-98.	1.2	15
44	Coral architecture affects the habitat choice and form of associated gobiid fishes. <i>Marine Biology</i> , 2014, 161, 521-530.	0.7	13
45	The floral morphospace â€“ a modern comparative approach to study angiosperm evolution. <i>New Phytologist</i> , 2014, 204, 841-853.	3.5	64
46	Comparing Covariance Matrices by Relative Eigenanalysis, with Applications to Organismal Biology. <i>Evolutionary Biology</i> , 2014, 41, 336-350.	0.5	48
47	Nonlinear effects of temperature on body form and developmental canalization in the threespine stickleback. <i>Journal of Evolutionary Biology</i> , 2014, 27, 497-507.	0.8	60
48	Variation at Genes Influencing Facial Morphology Are Not Associated with Developmental Imprecision in Human Faces. <i>PLoS ONE</i> , 2014, 9, e99009.	1.1	11
49	Studying Developmental Variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , 2014, 9, e115076.	1.1	19
50	Geometric morphometric footprint analysis of young women. <i>Journal of Foot and Ankle Research</i> , 2013, 6, 27.	0.7	34
51	Infant growth patterns of the mandible in modern humans: a closer exploration of the developmental interactions between the symphyseal bone, the teeth, and the suprahyoid and tongue muscle insertion sites. <i>Journal of Anatomy</i> , 2013, 222, 178-192.	0.9	28
52	Genetic and developmental analysis of differences in eye and face morphology between <i>Drosophila simulans</i> and <i>Drosophila mauritiana</i> . <i>Evolution & Development</i> , 2013, 15, 257-267.	1.1	33
53	Short Faces, Big Tongues: Developmental Origin of the Human Chin. <i>PLoS ONE</i> , 2013, 8, e81287.	1.1	18
54	How to Explore Morphological Integration in Human Evolution and Development?. <i>Evolutionary Biology</i> , 2012, 39, 536-553.	0.5	80

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55	Human EvoDevo. <i>Evolutionary Biology</i> , 2012, 39, 443-446.	0.5	2
56	The Developmental Basis of Quantitative Craniofacial Variation in Humans and Mice. <i>Evolutionary Biology</i> , 2012, 39, 554-567.	0.5	41
57	Evolution of Eye Morphology and Rhodopsin Expression in the <i>Drosophila melanogaster</i> Species Subgroup. <i>PLoS ONE</i> , 2012, 7, e37346.	1.1	53
58	Linear Discrimination, Ordination, and the Visualization of Selection Gradients in Modern Morphometrics. <i>Evolutionary Biology</i> , 2011, 38, 100-114.	0.5	406
59	Invariance and Meaningfulness in Phenotype spaces. <i>Evolutionary Biology</i> , 2011, 38, 335-351.	0.5	54
60	Sexual dimorphism of the human mandible and its association with dental development. <i>American Journal of Physical Anthropology</i> , 2011, 145, 192-202.	2.1	96
61	Craniofacial morphology in Austrian Early Bronze Age populations reflects sex-specific migration patterns. <i>Journal of Anthropological Sciences</i> , 2011, 89, 139-51.	0.4	1
62	Sexual dimorphism and population divergence in the Lake Tanganyika cichlid fish genus <i>Tropheus</i> . <i>Frontiers in Zoology</i> , 2010, 7, 4.	0.9	57
63	Examining Modularity via Partial Correlations: A Rejoinder to a Comment by Paul Magwene. <i>Systematic Biology</i> , 2009, 58, 346-348.	2.7	11
64	Early modern human diversity suggests subdivided population structure and a complex out-of-Africa scenario. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6094-6098.	3.3	189
65	The Concept of Morphospaces in Evolutionary and Developmental Biology: Mathematics and Metaphors. <i>Biological Theory</i> , 2009, 4, 54-67.	0.8	102
66	Psychomorphospace—From Biology to Perception, and Back: Towards an Integrated Quantification of Facial Form Variation. <i>Biological Theory</i> , 2009, 4, 98-106.	0.8	21
67	Principles for the virtual reconstruction of hominin crania. <i>Journal of Human Evolution</i> , 2009, 57, 48-62.	1.3	386
68	Advances in Geometric Morphometrics. <i>Evolutionary Biology</i> , 2009, 36, 235-247.	0.5	965
69	The Developmental Basis of Variational Modularity: Insights from Quantitative Genetics, Morphometrics, and Developmental Biology. <i>Evolutionary Biology</i> , 2009, 36, 377-385.	0.5	69
70	THE ONTOGENETIC TRAJECTORY OF THE PHENOTYPIC COVARIANCE MATRIX, WITH EXAMPLES FROM CRANIOFACIAL SHAPE IN RATS AND HUMANS. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 727-737.	1.1	112
71	THE EVOLUTIONARY ROLE OF MODULARITY AND INTEGRATION IN THE HOMINOID CRANIUM. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 943-958.	1.1	217
72	The Conceptual and Statistical Relationship between Modularity and Morphological Integration. <i>Systematic Biology</i> , 2007, 56, 818-836.	2.7	228

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73	Functional morphology of the first cervical vertebra in humans and nonhuman primates. The Anatomical Record Part B: the New Anatomist, 2006, 289B, 184-194.	1.3	60
74	Dental Arch Asymmetry in an Isolated Adriatic Community. American Journal of Physical Anthropology, 2006, 129, 132-142.	2.1	90
75	Ontogeny of facial dimorphism and patterns of individual development within one human population. American Journal of Physical Anthropology, 2006, 131, 432-443.	2.1	177
76	Heterochrony and geometric morphometrics: a comparison of cranial growth in Pan paniscus versus Pan troglodytes. Evolution & Development, 2005, 7, 244-258.	1.1	200
77	Semilandmarks in Three Dimensions. , 2005, , 73-98.		471
78	Second to fourth digit ratio and face shape. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1995-2001.	1.2	132
79	Visualizing facial shape regression upon 2nd to 4th digit ratio and testosterone. Collegium Antropologicum, 2005, 29, 415-9.	0.1	42
80	Comparison of cranial ontogenetic trajectories among great apes and humans. Journal of Human Evolution, 2004, 46, 679-698.	1.3	506
81	Regional dissociated heterochrony in multivariate analysis. Annals of Anatomy, 2004, 186, 463-470.	1.0	54
82	Craniofacial sexual dimorphism patterns and allometry among extant hominids. Annals of Anatomy, 2004, 186, 471-478.	1.0	64
83	Cranial integration in Homo: singular warps analysis of the midsagittal plane in ontogeny and evolution. Journal of Human Evolution, 2003, 44, 167-187.	1.3	344
84	Virtual Anthropology: The Digital Evolution in Anthropological Sciences.. Journal of Physiological Anthropology and Applied Human Science, 2001, 20, 69-80.	0.4	52
85	Digital South African fossils: morphological studies using reference-based reconstruction and electronic preparation. , 0, , 298-316.		8