

# Philipp Mitteroecker

## List of Publications by Year in descending order

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85  
papers

6,573  
citations

109264

35  
h-index

74108

75  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4980  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Geometric Morphometrics. <i>Evolutionary Biology</i> , 2009, 36, 235-247.	0.5	965
2	Comparison of cranial ontogenetic trajectories among great apes and humans. <i>Journal of Human Evolution</i> , 2004, 46, 679-698.	1.3	506
3	Semilandmarks in Three Dimensions. , 2005, , 73-98.		471
4	Linear Discrimination, Ordination, and the Visualization of Selection Gradients in Modern Morphometrics. <i>Evolutionary Biology</i> , 2011, 38, 100-114.	0.5	406
5	Principles for the virtual reconstruction of hominin crania. <i>Journal of Human Evolution</i> , 2009, 57, 48-62.	1.3	386
6	Cranial integration in Homo: singular warps analysis of the midsagittal plane in ontogeny and evolution. <i>Journal of Human Evolution</i> , 2003, 44, 167-187.	1.3	344
7	The Conceptual and Statistical Relationship between Modularity and Morphological Integration. <i>Systematic Biology</i> , 2007, 56, 818-836.	2.7	228
8	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
9	Heterochrony and geometric morphometrics: a comparison of cranial growth in <i>Pan paniscus</i> versus <i>Pan troglodytes</i> . <i>Evolution &amp; Development</i> , 2005, 7, 244-258.	1.1	200
10	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
11	Ontogeny of facial dimorphism and patterns of individual development within one human population. <i>American Journal of Physical Anthropology</i> , 2006, 131, 432-443.	2.1	177
12	Second to fourth digit ratio and face shape. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1995-2001.	1.2	132
13	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
14	The Concept of Morphospaces in Evolutionary and Developmental Biology: Mathematics and Metaphors. <i>Biological Theory</i> , 2009, 4, 54-67.	0.8	102
15	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
16	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
17	Dental Arch Asymmetry in an Isolated Adriatic Community. <i>American Journal of Physical Anthropology</i> , 2006, 129, 132-142.	2.1	90
18	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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19	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
20	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
21	Craniofacial sexual dimorphism patterns and allometry among extant hominids. <i>Annals of Anatomy</i> , 2004, 186, 471-478.	1.0	64
22	The floral morphospace – a modern comparative approach to study angiosperm evolution. <i>New Phytologist</i> , 2014, 204, 841-853.	3.5	64
23	Cliff-edge model of obstetric selection in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14680-14685.	3.3	62
24	Functional morphology of the first cervical vertebra in humans and nonhuman primates. <i>The Anatomical Record Part B: the New Anatomist</i> , 2006, 289B, 184-194.	1.3	60
25	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
26	Allometry and Sexual Dimorphism in the Human Pelvis. <i>Anatomical Record</i> , 2017, 300, 698-705.	0.8	60
27	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
28	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
29	Facial aging trajectories: A common shape pattern in male and female faces is disrupted after menopause. <i>American Journal of Physical Anthropology</i> , 2019, 169, 678-688.	2.1	56
30	The Morphometrics of “Masculinity” in Human Faces. <i>PLoS ONE</i> , 2015, 10, e0118374.	1.1	55
31	Regional dissociated heterochrony in multivariate analysis. <i>Annals of Anatomy</i> , 2004, 186, 463-470.	1.0	54
32	Invariance and Meaningfulness in Phenotype spaces. <i>Evolutionary Biology</i> , 2011, 38, 335-351.	0.5	54
33	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
34	Virtual Anthropology: The Digital Evolution in Anthropological Sciences.. <i>Journal of Physiological Anthropology and Applied Human Science</i> , 2001, 20, 69-80.	0.4	52
35	Comparing Covariance Matrices by Relative Eigenanalysis, with Applications to Organismal Biology. <i>Evolutionary Biology</i> , 2014, 41, 336-350.	0.5	48
36	Visualizing facial shape regression upon 2nd to 4th digit ratio and testosterone. <i>Collegium Antropologicum</i> , 2005, 29, 415-9.	0.1	42

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37	The Developmental Basis of Quantitative Craniofacial Variation in Humans and Mice. <i>Evolutionary Biology</i> , 2012, 39, 554-567.	0.5	41
38	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
39	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
40	Geometric morphometric footprint analysis of young women. <i>Journal of Foot and Ankle Research</i> , 2013, 6, 27.	0.7	34
41	Genetic and developmental analysis of differences in eye and face morphology between <i>Drosophila simulans</i> and <i>Drosophila mauritiana</i> . <i>Evolution &amp; Development</i> , 2013, 15, 257-267.	1.1	33
42	Multivariate Analysis of Genotype-Phenotype Association. <i>Genetics</i> , 2016, 202, 1345-1363.	1.2	33
43	BMI and WHR Are Reflected in Female Facial Shape and Texture: A Geometric Morphometric Image Analysis. <i>PLoS ONE</i> , 2017, 12, e0169336.	1.1	30
44	Humans as inverted bats: A comparative approach to the obstetric conundrum. <i>American Journal of Human Biology</i> , 2019, 31, e23227.	0.8	29
45	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
46	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
47	From Jumbo to Dumbo: Cranial Shape Changes in Elephants and Hippos During Phyletic Dwarfing. <i>Evolutionary Biology</i> , 2018, 45, 303-317.	0.5	22
48	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
49	Genetic structure of phenotypic robustness in the collaborative cross mouse diallel panel. <i>Journal of Evolutionary Biology</i> , 2016, 29, 1737-1751.	0.8	19
50	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
51	Studying Developmental Variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , 2014, 9, e115076.	1.1	19
52	Cliff-edge model predicts intergenerational predisposition to dystocia and Caesarean delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11669-11672.	3.3	18
53	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
54	Short Faces, Big Tongues: Developmental Origin of the Human Chin. <i>PLoS ONE</i> , 2013, 8, e81287.	1.1	18

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55	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
56	Adult pelvic shape change is an evolutionary side effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3596-E3596.	3.3	15
57	Multivariate comparison of variance in <i>R</i> . <i>Methods in Ecology and Evolution</i> , 2019, 10, 1380-1392.	2.2	15
58	Second premolar agenesis is associated with mandibular form: a geometric morphometric analysis of mandibular cross-sections. <i>International Journal of Oral Science</i> , 2016, 8, 254-260.	3.6	14
59	How human bodies are evolving in modern societies. <i>Nature Ecology and Evolution</i> , 2019, 3, 324-326.	3.4	14
60	The evolution of pelvic canal shape and rotational birth in humans. <i>BMC Biology</i> , 2021, 19, 224.	1.7	14
61	Coral architecture affects the habitat choice and form of associated gobiid fishes. <i>Marine Biology</i> , 2014, 161, 521-530.	0.7	13
62	A multivariate ecogeographic analysis of macaque craniodental variation. <i>American Journal of Physical Anthropology</i> , 2018, 166, 386-400.	2.1	13
63	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
64	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
65	Examining Modularity via Partial Correlations: A Rejoinder to a Comment by Paul Magwene. <i>Systematic Biology</i> , 2009, 58, 346-348.	2.7	11
66	Development Shapes a Consistent Inbreeding Effect in Mouse Crania of Different Line Crosses. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 474-488.	0.6	11
67	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
68	Secular changes in body height predict global rates of caesarean section. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182425.	1.2	10
69	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
70	The microstructure and the origin of the Venus from Willendorf. <i>Scientific Reports</i> , 2022, 12, 2926.	1.6	9
71	Digital South African fossils: morphological studies using reference-based reconstruction and electronic preparation. , 0, , 298-316.		8
72	Evolution of the Mammalian Ear: An Evolvability Hypothesis. <i>Evolutionary Biology</i> , 2020, 47, 187-192.	0.5	7

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73	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
74	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
75	Sacrum morphology supports taxonomic heterogeneity of "Australopithecus africanus" at Sterkfontein Member 4. <i>Communications Biology</i> , 2021, 4, 347.	2.0	5
76	Morphometrics in Evolutionary Developmental Biology. , 2020, , 1-11.		5
77	The Fetal Origin of the Human Chin. <i>Evolutionary Biology</i> , 2017, 44, 295-311.	0.5	4
78	Reply to Grossman: The role of natural selection for the increase of Caesarean section rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1305.	3.3	3
79	A model of developmental canalization, applied to human cranial form. <i>PLoS Computational Biology</i> , 2021, 17, e1008381.	1.5	3
80	Age dependent changes in pelvic shape during adulthood. <i>Anthropologischer Anzeiger</i> , 2022, 79, 143-156.	0.2	3
81	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
82	Human EvoDevo. <i>Evolutionary Biology</i> , 2012, 39, 443-446.	0.5	2
83	Systems mapping has potential to overcome inherent problems of genetic mapping. <i>Physics of Life Reviews</i> , 2015, 13, 190-191.	1.5	2
84	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
85	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