

# Philipp Mitteroecker

## List of Publications by Citations

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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.

82

papers

5,051

citations

34

h-index

71

g-index

86

ext. papers

5,878

ext. citations

4.8

avg, IF

6.06

L-index

#	Paper	IF	Citations
82	Advances in Geometric Morphometrics. <i>Evolutionary Biology</i> , <b>2009</b> , 36, 235-247	3	763
81	Comparison of cranial ontogenetic trajectories among great apes and humans. <i>Journal of Human Evolution</i> , <b>2004</b> , 46, 679-97	3.1	413
80	Semilandmarks in Three Dimensions <b>2005</b> , 73-98		357
79	Linear Discrimination, Ordination, and the Visualization of Selection Gradients in Modern Morphometrics. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 100-114	3	341
78	Principles for the virtual reconstruction of hominin crania. <i>Journal of Human Evolution</i> , <b>2009</b> , 57, 48-62	3.1	299
77	Cranial integration in Homo: singular warps analysis of the midsagittal plane in ontogeny and evolution. <i>Journal of Human Evolution</i> , <b>2003</b> , 44, 167-87	3.1	292
76	The conceptual and statistical relationship between modularity and morphological integration. <i>Systematic Biology</i> , <b>2007</b> , 56, 818-36	8.4	188
75	The evolutionary role of modularity and integration in the hominoid cranium. <i>Evolution; International Journal of Organic Evolution</i> , <b>2008</b> , 62, 943-58	3.8	183
74	Heterochrony and geometric morphometrics: a comparison of cranial growth in <i>Pan paniscus</i> versus <i>Pan troglodytes</i> . <i>Evolution &amp; Development</i> , <b>2005</b> , 7, 244-58	2.6	175
73	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> , <b>2009</b> , 106, 6094-8	11.5	164
72	Ontogeny of facial dimorphism and patterns of individual development within one human population. <i>American Journal of Physical Anthropology</i> , <b>2006</b> , 131, 432-43	2.5	146
71	Second to fourth digit ratio and face shape. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 1995-2001	4.4	113
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> , <b>2009</b> , 63, 727-37	3.8	91
69	The Concept of Morphospaces in Evolutionary and Developmental Biology: Mathematics and Metaphors. <i>Biological Theory</i> , <b>2009</b> , 4, 54-67	1.7	77
68	Sexual dimorphism of the human mandible and its association with dental development. <i>American Journal of Physical Anthropology</i> , <b>2011</b> , 145, 192-202	2.5	72
67	Dental arch asymmetry in an isolated Adriatic community. <i>American Journal of Physical Anthropology</i> , <b>2006</b> , 129, 132-42	2.5	69
66	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> , <b>2015</b> , 112, 5655-60	11.5	67

65	How to Explore Morphological Integration in Human Evolution and Development?. <i>Evolutionary Biology</i> , <b>2012</b> , 39, 536-553	3	63
64	The Developmental Basis of Variational Modularity: Insights from Quantitative Genetics, Morphometrics, and Developmental Biology. <i>Evolutionary Biology</i> , <b>2009</b> , 36, 377-385	3	56
63	Functional morphology of the first cervical vertebra in humans and nonhuman primates. <i>The Anatomical Record Part B: the New Anatomist</i> , <b>2006</b> , 289, 184-94		53
62	Nonlinear effects of temperature on body form and developmental canalization in the threespine stickleback. <i>Journal of Evolutionary Biology</i> , <b>2014</b> , 27, 497-507	2.3	50
61	Craniofacial sexual dimorphism patterns and allometry among extant hominids. <i>Annals of Anatomy</i> , <b>2004</b> , 186, 471-8	2.9	50
60	Regional dissociated heterochrony in multivariate analysis. <i>Annals of Anatomy</i> , <b>2004</b> , 186, 463-70	2.9	48
59	Invariance and Meaningfulness in Phenotype spaces. <i>Evolutionary Biology</i> , <b>2011</b> , 38, 335-351	3	46
58	Sexual dimorphism and population divergence in the Lake Tanganyika cichlid fish genus <i>Tropheus</i> . <i>Frontiers in Zoology</i> , <b>2010</b> , 7, 4	2.8	44
57	Virtual anthropology: the digital evolution in anthropological sciences. <i>Journal of Physiological Anthropology and Applied Human Science</i> , <b>2001</b> , 20, 69-80		44
56	The floral morphospace--a modern comparative approach to study angiosperm evolution. <i>New Phytologist</i> , <b>2014</b> , 204, 841-53	9.8	43
55	Cliff-edge model of obstetric selection in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 14680-14685	11.5	42
54	Evolution of the human pelvis and obstructed labor: new explanations of an old obstetrical dilemma. <i>American Journal of Obstetrics and Gynecology</i> , <b>2020</b> , 222, 3-16	6.4	39
53	Evolution of eye morphology and rhodopsin expression in the <i>Drosophila melanogaster</i> species subgroup. <i>PLoS ONE</i> , <b>2012</b> , 7, e37346	3.7	38
52	The morphometrics of "masculinity" in human faces. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118374	3.7	37
51	Visualizing facial shape regression upon 2nd to 4th digit ratio and testosterone. <i>Collegium Antropologicum</i> , <b>2005</b> , 29, 415-9	0.1	37
50	Allometry and Sexual Dimorphism in the Human Pelvis. <i>Anatomical Record</i> , <b>2017</b> , 300, 698-705	2.1	36
49	The Developmental Basis of Quantitative Craniofacial Variation in Humans and Mice. <i>Evolutionary Biology</i> , <b>2012</b> , 39, 554-567	3	35
48	Comparing Covariance Matrices by Relative Eigenanalysis, with Applications to Organismal Biology. <i>Evolutionary Biology</i> , <b>2014</b> , 41, 336-350	3	34

47	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> , <b>2020</b> , 6, eaax9935	14.3	30
46	Facial aging trajectories: A common shape pattern in male and female faces is disrupted after menopause. <i>American Journal of Physical Anthropology</i> , <b>2019</b> , 169, 678-688	2.5	25
45	Geometric morphometric footprint analysis of young women. <i>Journal of Foot and Ankle Research</i> , <b>2013</b> , 6, 27	3.2	25
44	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> , <b>2013</b> , 222, 178-92	2.9	24
43	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> , <b>2013</b> , 15, 257-67	2.6	22
42	BMI and WHR Are Reflected in Female Facial Shape and Texture: A Geometric Morphometric Image Analysis. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169336	3.7	19
41	Multivariate Analysis of Genotype-Phenotype Association. <i>Genetics</i> , <b>2016</b> , 202, 1345-63	4	18
40	Psychomorphospace From Biology to Perception, and Back: Towards an Integrated Quantification of Facial Form Variation. <i>Biological Theory</i> , <b>2009</b> , 4, 98-106	1.7	18
39	A combined morphometric analysis of foot form and its association with sex, stature, and body mass. <i>American Journal of Physical Anthropology</i> , <b>2015</b> , 157, 582-91	2.5	17
38	Studying developmental variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , <b>2014</b> , 9, e115076	3.7	17
37	Humans as inverted bats: A comparative approach to the obstetric conundrum. <i>American Journal of Human Biology</i> , <b>2019</b> , 31, e23227	2.7	16
36	Genetic structure of phenotypic robustness in the collaborative cross mouse diallel panel. <i>Journal of Evolutionary Biology</i> , <b>2016</b> , 29, 1737-51	2.3	15
35	From Jumbo to Dumbo: Cranial Shape Changes in Elephants and Hippos During Phyletic Dwarfing. <i>Evolutionary Biology</i> , <b>2018</b> , 45, 303-317	3	14
34	Adult pelvic shape change is an evolutionary side effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3596	11.5	13
33	Evolution of body shape in sympatric versus non-sympatric <i>Tropheus</i> populations of Lake Tanganyika. <i>Heredity</i> , <b>2014</b> , 112, 89-98	3.6	13
32	Short faces, big tongues: developmental origin of the human chin. <i>PLoS ONE</i> , <b>2013</b> , 8, e81287	3.7	13
31	Three-dimensional surface scanning methods in osteology: A topographical and geometric morphometric comparison. <i>American Journal of Physical Anthropology</i> , <b>2021</b> , 174, 846-858	2.5	12
30	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> , <b>2017</b> , 114, 11669-11672	11.5	11

29	Coral architecture affects the habitat choice and form of associated gobiid fishes. <i>Marine Biology</i> , <b>2014</b> , 161, 521-530	2.5	10
28	How human bodies are evolving in modern societies. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 324-326	12.3	10
27	Multivariate comparison of variance in R. <i>Methods in Ecology and Evolution</i> , <b>2019</b> , 10, 1380-1392	7.7	9
26	Morphometric Variation at Different Spatial Scales: Coordination and Compensation in the Emergence of Organismal Form. <i>Systematic Biology</i> , <b>2020</b> , 69, 913-926	8.4	7
25	Examining modularity via partial correlations: a rejoinder to a comment by Paul Magwene. <i>Systematic Biology</i> , <b>2009</b> , 58, 346-8	8.4	7
24	Digital South African fossils: morphological studies using reference-based reconstruction and electronic preparation 298-316		7
23	Secular changes in body height predict global rates of caesarean section. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20182425	4.4	6
22	Second premolar agenesis is associated with mandibular form: a geometric morphometric analysis of mandibular cross-sections. <i>International Journal of Oral Science</i> , <b>2016</b> , 8, 254-260	27.9	6
21	Variation at genes influencing facial morphology are not associated with developmental imprecision in human faces. <i>PLoS ONE</i> , <b>2014</b> , 9, e99009	3.7	6
20	Respiratory adaptation to climate in modern humans and Upper Palaeolithic individuals from Sungir and Mladeč. <i>Scientific Reports</i> , <b>2021</b> , 11, 7997	4.9	6
19	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> , <b>2016</b> , 326, 474-488	1.8	6
18	A multivariate ecogeographic analysis of macaque craniodental variation. <i>American Journal of Physical Anthropology</i> , <b>2018</b> , 166, 386-400	2.5	5
17	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> , <b>2021</b> , 118,	11.5	5
16	The association of parturition scars and pelvic shape: A geometric morphometric study. <i>American Journal of Physical Anthropology</i> , <b>2021</b> , 174, 519-531	2.5	5
15	Morphometrics in Evolutionary Developmental Biology <b>2020</b> , 1-11		3
14	Sex differences in the pelvis did not evolve de novo in modern humans. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 625-630	12.3	3
13	The Fetal Origin of the Human Chin. <i>Evolutionary Biology</i> , <b>2017</b> , 44, 295-311	3	2
12	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> , <b>2017</b> , 114, E1305	11.5	2

11	Systems mapping has potential to overcome inherent problems of genetic mapping: Comment on "Mapping complex traits as a dynamic system" by L. Sun and R. Wu. <i>Physics of Life Reviews</i> , <b>2015</b> , 13, 190-197	2.1	2
10	Evolution of the Mammalian Ear: An Evolvability Hypothesis. <i>Evolutionary Biology</i> , <b>2020</b> , 47, 187-192	3	2
9	Human EvoDevo. <i>Evolutionary Biology</i> , <b>2012</b> , 39, 443-446	3	2
8	Are parturition scars truly signs of birth? The estimation of parity in a well-documented modern sample. <i>International Journal of Osteoarchaeology</i> ,	1.1	2
7	The evolution of pelvic canal shape and rotational birth in humans. <i>BMC Biology</i> , <b>2021</b> , 19, 224	7.3	2
6	Detecting Phylogenetic Signal and Adaptation in Papionin Cranial Shape by Decomposing Variation at Different Spatial Scales. <i>Systematic Biology</i> , <b>2021</b> , 70, 694-706	8.4	2
5	Sacrum morphology supports taxonomic heterogeneity of "Australopithecus africanus" at Sterkfontein Member 4. <i>Communications Biology</i> , <b>2021</b> , 4, 347	6.7	2
4	A model of developmental canalization, applied to human cranial form. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008381	5	0
3	The microstructure and the origin of the Venus from Willendorf.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2926	4.9	0
2	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> , <b>2016</b> , 113, E259	11.5	
1	Craniofacial morphology in Austrian Early Bronze Age populations reflects sex-specific migration patterns. <i>Journal of Anthropological Sciences</i> , <b>2011</b> , 89, 139-51	0.6	