

Christian Peter Klingenberg

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.

90
papers

12,130
citations

50
h-index

98
g-index

98
ext. papers

13,915
ext. citations

4.6
avg, IF

7.46
L-index

#	Paper	IF	Citations
90	MorphoJ: an integrated software package for geometric morphometrics. <i>Molecular Ecology Resources</i> , 2011 , 11, 353-7	8.4	2159
89	Shape analysis of symmetric structures: quantifying variation among individuals and asymmetry. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1909-20	3.8	684
88	Morphological Integration and Developmental Modularity. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008 , 39, 115-132	13.5	489
87	Heterochrony and allometry: the analysis of evolutionary change in ontogeny. <i>Biological Reviews</i> , 1998 , 73, 79-123	13.5	463
86	Evolution and development of shape: integrating quantitative approaches. <i>Nature Reviews Genetics</i> , 2010 , 11, 623-35	30.1	419
85	Size, shape, and form: concepts of allometry in geometric morphometrics. <i>Development Genes and Evolution</i> , 2016 , 226, 113-37	1.8	418
84	GEOMETRIC MORPHOMETRICS OF DEVELOPMENTAL INSTABILITY: ANALYZING PATTERNS OF FLUCTUATING ASYMMETRY WITH PROCRUSTES METHODS. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1363-1375	3.8	413
83	Morphometric integration and modularity in configurations of landmarks: tools for evaluating a priori hypotheses. <i>Evolution & Development</i> , 2009 , 11, 405-21	2.6	331
82	Distances and directions in multidimensional shape spaces: implications for morphometric applications. <i>Systematic Biology</i> , 2005 , 54, 678-88	8.4	279
81	The pace of morphological change: historical transformation of skull shape in St Bernard dogs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008 , 275, 71-6	4.4	266
80	Testing and quantifying phylogenetic signals and homoplasy in morphometric data. <i>Systematic Biology</i> , 2010 , 59, 245-61	8.4	265
79	Large-scale diversification of skull shape in domestic dogs: disparity and modularity. <i>American Naturalist</i> , 2010 , 175, 289-301	3.7	259
78	Geometric Morphometrics of Developmental Instability: Analyzing Patterns of Fluctuating Asymmetry with Procrustes Methods. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1363	3.8	258
77	Developmental integration in a complex morphological structure: how distinct are the modules in the mouse mandible?. <i>Evolution & Development</i> , 2003 , 5, 522-31	2.6	246
76	Evolutionary covariation in geometric morphometric data: analyzing integration, modularity, and allometry in a phylogenetic context. <i>Systematic Biology</i> , 2013 , 62, 591-610	8.4	245
75	Multivariate Allometry 1996 , 23-49		219
74	Analyzing Fluctuating Asymmetry with Geometric Morphometrics: Concepts, Methods, and Applications. <i>Symmetry</i> , 2015 , 7, 843-934	2.7	213

73	The Genetics and Evolution of Fluctuating Asymmetry. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005 , 36, 1-21	13.5	204
72	Inferring developmental modularity from morphological integration: analysis of individual variation and asymmetry in bumblebee wings. <i>American Naturalist</i> , 2001 , 157, 11-23	3.7	188
71	Studying morphological integration and modularity at multiple levels: concepts and analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130249	5.8	187
70	Morphological intergration between development compartments in the Drosophila wing. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 1273-85	3.8	187
69	Genetic architecture of mandible shape in mice: effects of quantitative trait loci analyzed by geometric morphometrics. <i>Genetics</i> , 2001 , 157, 785-802	4	179
68	Integration and modularity of quantitative trait locus effects on geometric shape in the mouse mandible. <i>Genetics</i> , 2004 , 166, 1909-21	4	178
67	Static, Ontogenetic, and Evolutionary Allometry: A Multivariate Comparison in Nine Species of Water Striders. <i>American Naturalist</i> , 1992 , 140, 601-620	3.7	176
66	Quantitative genetics of geometric shape in the mouse mandible. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 2342-52	3.8	172
65	A combined morphometric and phylogenetic analysis of an ecomorphological trend: pelagization in Antarctic fishes (Perciformes: Nototheniidae). <i>Biological Journal of the Linnean Society</i> , 1996 , 59, 143-177	7.9	133
64	On the role of body size for life-history evolution. <i>Ecological Entomology</i> , 1997 , 22, 55-68	2.1	118
63	Morphometrics and the role of the phenotype in studies of the evolution of developmental mechanisms. <i>Gene</i> , 2002 , 287, 3-10	3.8	114
62	What accounts for the wide variation in life span of genetically identical organisms reared in a constant environment?. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 439-43	5.6	111
61	Functional evo-devo. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 488-92	10.9	109
60	A single basis for developmental buffering of Drosophila wing shape. <i>PLoS ONE</i> , 2006 , 1, e7	3.7	107
59	Developmental plasticity, morphological variation and evolvability: a multilevel analysis of morphometric integration in the shape of compound leaves. <i>Journal of Evolutionary Biology</i> , 2012 , 25, 115-29	2.3	104
58	Evolution of sexual dimorphism of wing shape in the Drosophila melanogaster subgroup. <i>BMC Evolutionary Biology</i> , 2009 , 9, 110	3	102
57	Body shape variation in cichlid fishes of the <i>Amphilophus citrinellus</i> species complex. <i>Biological Journal of the Linnean Society</i> , 2003 , 80, 397-408	1.9	97
56	Left-right asymmetry of fly wings and the evolution of body axes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998 , 265, 1255-9	4.4	95

55	GENETICS OF FLUCTUATING ASYMMETRY: A DEVELOPMENTAL MODEL OF DEVELOPMENTAL INSTABILITY. <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 358-375	3.8	88
54	Developmental Constraints, Modules, and Evolvability 2005 , 219-247		85
53	Beyond bilateral symmetry: geometric morphometric methods for any type of symmetry. <i>BMC Evolutionary Biology</i> , 2011 , 11, 280	3	82
52	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529-2538	3.8	80
51	Evolution of Cranial Shape in Caecilians (Amphibia: Gymnophiona). <i>Evolutionary Biology</i> , 2014 , 41, 528-545	3.5	79
50	Competition among growing organs and developmental control of morphological asymmetry. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998 , 265, 1135-1139	4.4	77
49	Morphological evolution through integration: a quantitative study of cranial integration in Homo, Pan, Gorilla and Pongo. <i>Journal of Human Evolution</i> , 2012 , 62, 155-64	3.1	76
48	Prenatal alcohol exposure alters the patterns of facial asymmetry. <i>Alcohol</i> , 2010 , 44, 649-57	2.7	76
47	Heterochrony and allometry: the analysis of evolutionary change in ontogeny. <i>Biological Reviews</i> , 2007 , 73, 79-123	13.5	73
46	THE RELATIONSHIP BETWEEN FLUCTUATING ASYMMETRY AND ENVIRONMENTAL VARIANCE IN RHESUS MACAQUE SKULLS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 898-909	3.8	71
45	Pervasive genetic integration directs the evolution of human skull shape. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 1010-23	3.8	70
44	Novelty and Homology-free Morphometrics: What's in a Name?. <i>Evolutionary Biology</i> , 2008 , 35, 186-190	3	67
43	HETEROCHRONY AND ALLOMETRY: LESSONS FROM THE WATER STRIDER GENUS LIMNOPORUS. <i>Evolution; International Journal of Organic Evolution</i> , 1993 , 47, 1834-1853	3.8	59
42	Quantitative genetics of shape in cricket wings: developmental integration in a functional structure. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 2935-51	3.8	51
41	Dyar's rule and multivariate allometric growth in nine species of waterstriders (Heteroptera: Gerridae). <i>Journal of Zoology</i> , 1992 , 227, 453-464	2	50
40	Genetics of Fluctuating Asymmetry: A Developmental Model of Developmental Instability. <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 358	3.8	45
39	Quantitative genetics of geometric shape: heritability and the pitfalls of the univariate approach. <i>Evolution; International Journal of Organic Evolution</i> , 2003 , 57, 191-5	3.8	44
38	A search for quantitative trait loci exhibiting imprinting effects on mouse mandible size and shape. <i>Heredity</i> , 2008 , 101, 518-26	3.6	42

37	Phenotypic Plasticity, Developmental Instability, and Robustness: The Concepts and How They Are Connected. <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	39
36	A Multivariate Comparison of Allometric Growth Patterns. <i>Systematic Zoology</i> , 1991 , 40, 410		39
35	Hsp90 and the quantitative variation of wing shape in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529-38	3.8	39
34	Geometric morphometrics of corolla shape: dissecting components of symmetric and asymmetric variation in <i>Erysimum mediohispanicum</i> (Brassicaceae). <i>New Phytologist</i> , 2012 , 196, 945-954	9.8	38
33	Heterochrony and Allometry: Lessons from the Water Strider Genus <i>Limnopus</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993 , 47, 1834	3.8	38
32	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529	3.8	37
31	The role of pollinator diversity in the evolution of corolla-shape integration in a pollination-generalist plant clade. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130257	5.8	35
30	The role of pollinators in the evolution of corolla shape variation, disparity and integration in a highly diversified plant family with a conserved floral bauplan. <i>Annals of Botany</i> , 2016 , 117, 889-904	4.1	34
29	INDIVIDUAL VARIATION OF ONTOGENESIS: A LONGITUDINAL STUDY OF GROWTH AND TIMING. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 2412-2428	3.8	34
28	Ontogeny and Individual Variation: Analysis of Patterned Covariance Matrices with Common Principal Components. <i>Systematic Biology</i> , 1996 , 45, 135-150	8.4	33
27	SHAPE ANALYSIS OF SYMMETRIC STRUCTURES: QUANTIFYING VARIATION AMONG INDIVIDUALS AND ASYMMETRY. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1909	3.8	27
26	Geometric morphometrics of symmetry and allometry in <i>Micrasterias rotata</i> (Zygnemophyceae, Viridiplantae). <i>Nova Hedwigia</i> , 2010 , 136, 43-54	2.3	25
25	Integration of wings and their eyespots in the speckled wood butterfly <i>Pararge aegeria</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007 , 308, 454-63	1.8	19
24	MORPHOLOGICAL INTEGRATION BETWEEN DEVELOPMENTAL COMPARTMENTS IN THE <i>DROSOPHILA</i> WING. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 1273	3.8	19
23	QUANTITATIVE GENETICS OF GEOMETRIC SHAPE IN THE MOUSE MANDIBLE. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 2342	3.8	18
22	Exploring the ontogenetic scaling hypothesis during the diversification of pollination syndromes in <i>Caiophora</i> (Loasaceae, subfam. Loasoideae). <i>Annals of Botany</i> , 2016 , 117, 937-47	4.1	18
21	The Genetic Architecture of Fluctuating Asymmetry of Mandible Size and Shape in a Population of Mice: Another Look. <i>Symmetry</i> , 2015 , 7, 146-163	2.7	17
20	The evolution of floral ontogenetic allometry in the Andean genus <i>Caiophora</i> (Loasaceae, subfam. Loasoideae). <i>Evolution & Development</i> , 2018 , 20, 29-39	2.6	16

19	Phenotypic plasticity in response to environmental heterogeneity contributes to fluctuating asymmetry in plants: first empirical evidence. <i>Journal of Evolutionary Biology</i> , 2018 , 31, 197-210	2.3	16
18	Influence of gut parasites on growth performance in the water strider <i>Gerris buenoi</i> (Hemiptera: Gerridae). <i>Ecography</i> , 1997 , 20, 29-36	6.5	15
17	Developmental buffering: how many genes?. <i>Evolution & Development</i> , 2007 , 9, 525-6	2.6	15
16	The relationship between fluctuating asymmetry and environmental variance in rhesus macaque skulls. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 898-909	3.8	15
15	Development of the mouse mandible:135-149		14
14	Automatic identification of landmarks in digital images. <i>IET Computer Vision</i> , 2010 , 4, 247	1.4	14
13	Individual Variation of Ontogenies: A Longitudinal Study of Growth and Timing. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 2412	3.8	14
12	Morphometric variation in a hybrid zone of two subspecies of <i>Gerris costae</i> (Heteroptera: Gerridae) in the Maritime Alps. <i>Journal of Evolutionary Biology</i> , 1994 , 7, 697-712	2.3	12
11	Integration and Modularity of Quantitative Trait Locus Effects on Geometric Shape in the Mouse Mandible. <i>Genetics</i> , 2004 , 166, 1909-1921	4	11
10	Evolutionary relationships of wing venation and wing size and shape in Aphidiinae (Hymenoptera: Braconidae). <i>Organisms Diversity and Evolution</i> , 2017 , 17, 607-617	1.7	9
9	Walking on Kendall's Shape Space: Understanding Shape Spaces and Their Coordinate Systems. <i>Evolutionary Biology</i> , 2020 , 47, 334-352	3	8
8	Estimating Phylogenies from Shape and Similar Multidimensional Data: Why It Is Not Reliable. <i>Systematic Biology</i> , 2020 , 69, 863-883	8.4	6
7	The potential influence of morphology on the evolutionary divergence of an acoustic signal. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 2163-76	2.3	6
6	An Informational Measure of Association and Dimension Reduction for Multiple Sets and Groups With Applications in Morphometric Analysis. <i>Journal of the American Statistical Association</i> , 2008 , 103, 1166-1176	2.8	6
5	THE RELATIONSHIP BETWEEN FLUCTUATING ASYMMETRY AND ENVIRONMENTAL VARIANCE IN RHESUS MACAQUE SKULLS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 898	3.8	5
4	Impacts of Predation and Intracohort Cannibalism in the Water Strider <i>Gerris buenoi</i> (Heteroptera: Gerridae). <i>Oikos</i> , 1996 , 75, 391	4	4
3	How Exactly Did the Nose Get That Long? A Critical Rethinking of the Pinocchio Effect and How Shape Changes Relate to Landmarks. <i>Evolutionary Biology</i> , 2021 , 48, 115-127	3	3
2	Methods for studying allometry in geometric morphometrics: a comparison of performance. <i>Evolutionary Ecology</i> , 1	1.8	0

- 1 QUANTITATIVE GENETICS OF GEOMETRIC SHAPE: HERITABILITY AND THE PITFALLS OF THE UNIVARIATE APPROACH. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 191 3.8