

Christian Peter Klingenberg

List of Publications by Year in descending order

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95
papers

15,494
citations

36203

51
h-index

45213

90
g-index

101
all docs

101
docs citations

101
times ranked

9040
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>Morpho</scp>: an integrated software package for geometric morphometrics. <i>Molecular Ecology Resources</i> , 2011, 11, 353-357.	2.2	2,884
2	SHAPE ANALYSIS OF SYMMETRIC STRUCTURES: QUANTIFYING VARIATION AMONG INDIVIDUALS AND ASYMMETRY. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1909-1920.	1.1	804
3	Size, shape, and form: concepts of allometry in geometric morphometrics. <i>Development Genes and Evolution</i> , 2016, 226, 113-137.	0.4	654
4	Morphological Integration and Developmental Modularity. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008, 39, 115-132.	3.8	641
5	Evolution and development of shape: integrating quantitative approaches. <i>Nature Reviews Genetics</i> , 2010, 11, 623-635.	7.7	571
6	Heterochrony and allometry: the analysis of evolutionary change in ontogeny. <i>Biological Reviews</i> , 1998, 73, 79-123.	4.7	549
7	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.	1.1	509
8	Morphometric integration and modularity in configurations of landmarks: tools for evaluating a priori hypotheses. <i>Evolution & Development</i> , 2009, 11, 405-421.	1.1	409
9	Distances and Directions in Multidimensional Shape Spaces: Implications for Morphometric Applications. <i>Systematic Biology</i> , 2005, 54, 678-688.	2.7	354
10	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, 71-76.	1.2	330
11	Testing and Quantifying Phylogenetic Signals and Homoplasy in Morphometric Data. <i>Systematic Biology</i> , 2010, 59, 245-261.	2.7	327
12	Geometric Morphometrics of Developmental Instability: Analyzing Patterns of Fluctuating Asymmetry with Procrustes Methods. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1363.	1.1	319
13	Large-scale Diversification of Skull Shape in Domestic Dogs: Disparity and Modularity. <i>American Naturalist</i> , 2010, 175, 289-301.	1.0	317
14	Evolutionary Covariation in Geometric Morphometric Data: Analyzing Integration, Modularity, and Allometry in a Phylogenetic Context. <i>Systematic Biology</i> , 2013, 62, 591-610.	2.7	316
15	Analyzing Fluctuating Asymmetry with Geometric Morphometrics: Concepts, Methods, and Applications. <i>Symmetry</i> , 2015, 7, 843-934.	1.1	295
16	Developmental integration in a complex morphological structure: how distinct are the modules in the mouse mandible?. <i>Evolution & Development</i> , 2003, 5, 522-531.	1.1	282
17	Multivariate Allometry. , 1996, , 23-49.		268
18	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.	1.8	261

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19	The Genetics and Evolution of Fluctuating Asymmetry. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 1-21.	3.8	236
20	Inferring Developmental Modularity from Morphological Integration: Analysis of Individual Variation and Asymmetry in Bumblebee Wings. <i>American Naturalist</i> , 2001, 157, 11-23.	1.0	221
21	Genetic Architecture of Mandible Shape in Mice: Effects of Quantitative Trait Loci Analyzed by Geometric Morphometrics. <i>Genetics</i> , 2001, 157, 785-802.	1.2	213
22	Integration and Modularity of Quantitative Trait Locus Effects on Geometric Shape in the Mouse Mandible. <i>Genetics</i> , 2004, 166, 1909-1921.	1.2	209
23	Static, Ontogenetic, and Evolutionary Allometry: A Multivariate Comparison in Nine Species of Water Striders. <i>American Naturalist</i> , 1992, 140, 601-620.	1.0	204
24	MORPHOLOGICAL INTEGRATION BETWEEN DEVELOPMENTAL COMPARTMENTS IN THE DROSOPHILA WING. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1273-1285.	1.1	199
25	QUANTITATIVE GENETICS OF GEOMETRIC SHAPE IN THE MOUSE MANDIBLE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2342-2352.	1.1	197
26	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.	0.7	161
27	Morphometrics and the role of the phenotype in studies of the evolution of developmental mechanisms. <i>Gene</i> , 2002, 287, 3-10.	1.0	140
28	Evolution of sexual dimorphism of wing shape in the <i>Drosophila melanogaster</i> subgroup. <i>BMC Evolutionary Biology</i> , 2009, 9, 110.	3.2	137
29	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, 115-129.	0.8	137
30	On the role of body size for life-history evolution. <i>Ecological Entomology</i> , 1997, 22, 55-68.	1.1	135
31	A Single Basis for Developmental Buffering of <i>Drosophila</i> Wing Shape. <i>PLoS ONE</i> , 2006, 1, e7.	1.1	129
32	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, 439-443.	2.2	128
33	Functional evo-devo. <i>Trends in Ecology and Evolution</i> , 2006, 21, 488-492.	4.2	126
34	Developmental Constraints, Modules, and Evolvability. , 2005, , 219-247.		117
35	Left-right asymmetry of fly wings and the evolution of body axes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 1255-1259.	1.2	114
36	Evolution of Cranial Shape in Caecilians (Amphibia: Gymnophiona). <i>Evolutionary Biology</i> , 2014, 41, 528-545.	0.5	108

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37	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.	0.7	105
38	Beyond bilateral symmetry: geometric morphometric methods for any type of symmetry. <i>BMC Evolutionary Biology</i> , 2011, 11, 280.	3.2	105
39	GENETICS OF FLUCTUATING ASYMMETRY: A DEVELOPMENTAL MODEL OF DEVELOPMENTAL INSTABILITY. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 358-375.	1.1	102
40	Morphological evolution through integration: A quantitative study of cranial integration in <i>Homo</i> , <i>Pan</i> , <i>Gorilla</i> and <i>Pongo</i> . <i>Journal of Human Evolution</i> , 2012, 62, 155-164.	1.3	96
41	Heterochrony and allometry: the analysis of evolutionary change in ontogeny. <i>Biological Reviews</i> , 1998, 73, 79-123.	4.7	93
42	Competition among growing organs and developmental control of morphological asymmetry. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 1135-1139.	1.2	92
43	Prenatal alcohol exposure alters the patterns of facial asymmetry. <i>Alcohol</i> , 2010, 44, 649-657.	0.8	90
44	THE RELATIONSHIP BETWEEN FLUCTUATING ASYMMETRY AND ENVIRONMENTAL VARIANCE IN RHESUS MACAQUE SKULLS. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 898-909.	1.1	89
45	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2529-2538.	1.1	86
46	PERVASIVE GENETIC INTEGRATION DIRECTS THE EVOLUTION OF HUMAN SKULL SHAPE. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1010-1023.	1.1	86
47	Novelty and "Homology-free" Morphometrics: What's in a Name?. <i>Evolutionary Biology</i> , 2008, 35, 186-190.	0.5	84
48	Phenotypic Plasticity, Developmental Instability, and Robustness: The Concepts and How They Are Connected. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	77
49	HETEROCHRONY AND ALLOMETRY: LESSONS FROM THE WATER STRIDER GENUS <i>LIMNOPORUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1834-1853.	1.1	73
50	QUANTITATIVE GENETICS OF SHAPE IN CRICKET WINGS: DEVELOPMENTAL INTEGRATION IN A FUNCTIONAL STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, no-no.	1.1	66
51	QUANTITATIVE GENETICS OF GEOMETRIC SHAPE: HERITABILITY AND THE PITFALLS OF THE UNIVARIATE APPROACH. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 191-195.	1.1	59
52	Dyar's rule and multivariate allometric growth in nine species of waterstriders (Heteroptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	0.8	56
53	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.	3.5	56
54	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.	1.4	54

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55	Genetics of Fluctuating Asymmetry: A Developmental Model of Developmental Instability. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 358.	1.1	52
56	A search for quantitative trait loci exhibiting imprinting effects on mouse mandible size and shape. <i>Heredity</i> , 2008, 101, 518-526.	1.2	49
57	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.	1.8	48
58	MORPHOLOGICAL INTEGRATION BETWEEN DEVELOPMENTAL COMPARTMENTS IN THE DROSOPHILA WING. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1273.	1.1	46
59	A Multivariate Comparison of Allometric Growth Patterns. <i>Systematic Zoology</i> , 1991, 40, 410.	1.6	44
60	SHAPE ANALYSIS OF SYMMETRIC STRUCTURES: QUANTIFYING VARIATION AMONG INDIVIDUALS AND ASYMMETRY. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1909.	1.1	43
61	Heterochrony and Allometry: Lessons from the Water Strider Genus <i>Limnopus</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1834.	1.1	42
62	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2529.	1.1	41
63	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.	1.1	41
64	INDIVIDUAL VARIATION OF ONTOGENIES: A LONGITUDINAL STUDY OF GROWTH AND TIMING. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 2412-2428.	1.1	39
65	Ontogeny and Individual Variation: Analysis of Patterned Covariance Matrices with Common Principal Components. <i>Systematic Biology</i> , 1996, 45, 135-150.	2.7	39
66	Integration and Modularity of Quantitative Trait Locus Effects on Geometric Shape in the Mouse Mandible. <i>Genetics</i> , 2004, 166, 1909-1921.	1.2	34
67	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.	0.8	33
68	There's something afoot in the evolution of ontogenies. <i>BMC Evolutionary Biology</i> , 2010, 10, 221.	3.2	31
69	Geometric morphometrics of symmetry and allometry in <i>Micrasterias rotata</i> (Zygnemophyceae.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	0.2	27
70	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, 308B, 454-463.	0.6	25
71	QUANTITATIVE GENETICS OF GEOMETRIC SHAPE IN THE MOUSE MANDIBLE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2342.	1.1	23
72	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.	1.1	22

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73	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, 937-947.	1.4	22
74	Evolutionary relationships of wing venation and wing size and shape in Aphidiinae (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.7	21
75	Walking on Kendall's Shape Space: Understanding Shape Spaces and Their Coordinate Systems. <i>Evolutionary Biology</i> , 2020, 47, 334-352.	0.5	20
76	The evolution of floral ontogenetic allometry in the Andean genus <i>Caiophora</i> (Loasaceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.1	19
77	Developmental buffering: how many genes?. <i>Evolution & Development</i> , 2007, 9, 525-526.	1.1	18
78	Development of the mouse mandible. , 2012, , 135-149.		18
79	Influence of gut parasites on growth performance in the water strider <i>Gerris buenoi</i> (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.1	17
80	The relationship between fluctuating asymmetry and environmental variance in rhesus macaque skulls. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 898-909.	1.1	17
81	Individual Variation of Ontogenies: A Longitudinal Study of Growth and Timing. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 2412.	1.1	15
82	Automatic identification of landmarks in digital images. <i>IET Computer Vision</i> , 2010, 4, 247.	1.3	15
83	Estimating Phylogenies from Shape and Similar Multidimensional Data: Why It Is Not Reliable. <i>Systematic Biology</i> , 2020, 69, 863-883.	2.7	15
84	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.	0.7	15
85	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.	0.5	14
86	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.	0.8	12
87	Methods for studying allometry in geometric morphometrics: a comparison of performance. <i>Evolutionary Ecology</i> , 2022, 36, 439-470.	0.5	12
88	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.	1.8	9
89	The potential influence of morphology on the evolutionary divergence of an acoustic signal. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2163-2176.	0.8	7
90	THE RELATIONSHIP BETWEEN FLUCTUATING ASYMMETRY AND ENVIRONMENTAL VARIANCE IN RHESUS MACAQUE SKULLS. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 898.	1.1	5

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91	Impacts of Predation and Intra-cohort Cannibalism in the Water Strider <i>Gerris buenoi</i> (Heteroptera: Gerridae) <i>Trends in Ecology and Evolution</i> , 2011, 26, 10, 585-591.	1.2	4
92	Directional asymmetry and direction-giving factors: Lessons from flowers with complex symmetry. <i>Evolution & Development</i> , 2003, 5, 1, 1-10.	1.1	3
93	Shape asymmetry – what's new?. <i>Emerging Topics in Life Sciences</i> , 2022, 6, 285-294.	1.1	3
94	QUANTITATIVE GENETICS OF GEOMETRIC SHAPE: HERITABILITY AND THE PITFALLS OF THE UNIVARIATE APPROACH. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 191.	1.1	0
95	Evo-devo on the piazza. <i>Trends in Ecology and Evolution</i> , 2010, 25, 67.	4.2	0