

Gerd B MÃ¼ller

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

4,188
citations

218381

26
h-index

253896

43
g-index

51
all docs

51
docs citations

51
times ranked

3145
citing authors

#	ARTICLE	IF	CITATIONS
1	The extended evolutionary synthesis: its structure, assumptions and predictions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151019.	1.2	755
2	Does evolutionary theory need a rethink?. <i>Nature</i> , 2014, 514, 161-164.	13.7	727
3	EvoDevo: extending the evolutionary synthesis. <i>Nature Reviews Genetics</i> , 2007, 8, 943-949.	7.7	481
4	Epigenetic mechanisms of character origination. <i>The Journal of Experimental Zoology</i> , 2000, 288, 304-317.	1.4	241
5	The innovation triad: an EvoDevo agenda. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 487-503.	0.6	151
6	Before programs: The physical origination of multicellular forms. <i>International Journal of Developmental Biology</i> , 2006, 50, 289-299.	0.3	149
7	High-resolution episcopic microscopy: a rapid technique for high detailed 3D analysis of gene activity in the context of tissue architecture and morphology. <i>Anatomy and Embryology</i> , 2006, 211, 213-221.	1.5	147
8	Ontogeny of the limb skeleton in <i>Alligator mississippiensis</i> : Developmental invariance and change in the evolution of archosaur limbs. <i>Journal of Morphology</i> , 1990, 203, 151-164.	0.6	116
9	Evolution evolves: physiology returns to centre stage. <i>Journal of Physiology</i> , 2014, 592, 2237-2244.	1.3	102
10	Why an extended evolutionary synthesis is necessary. <i>Interface Focus</i> , 2017, 7, 20170015.	1.5	102
11	A comparative study of stereolithographically modelled skulls of <i>Petalona</i> and Broken Hill: implications for future studies of middle Pleistocene hominid evolution. <i>Journal of Human Evolution</i> , 1997, 33, 691-703.	1.3	96
12	External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections. , 1997, 248, 583-602.		89
13	Embryonic motility: environmental influences and evolutionary innovation. <i>Evolution & Development</i> , 2003, 5, 56-60.	1.1	83
14	Computer-based three-dimensional visualization of developmental gene expression. <i>Nature Genetics</i> , 2000, 25, 147-152.	9.4	81
15	Homology, Hox Genes, and Developmental Integration. <i>American Zoologist</i> , 1996, 36, 4-13.	0.7	79
16	A new episcopic method for rapid 3-D reconstruction: applications in anatomy and embryology. <i>Anatomy and Embryology</i> , 1998, 197, 341-348.	1.5	69
17	Is Non-genetic Inheritance Just a Proximate Mechanism? A Corroboration of the Extended Evolutionary Synthesis. <i>Biological Theory</i> , 2013, 7, 189-195.	0.8	63
18	MicroCT for molecular imaging: Quantitative visualization of complete three-dimensional distributions of gene products in embryonic limbs. <i>Developmental Dynamics</i> , 2011, 240, 2301-2308.	0.8	59

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19	Evolutionary innovations overcome ancestral constraints: a re-examination of character evolution in male sepsid flies (Diptera: Sepsidae). <i>Evolution & Development</i> , 2002, 4, 1-6.	1.1	55
20	The Morphometrics of "Masculinity" in Human Faces. <i>PLoS ONE</i> , 2015, 10, e0118374.	1.1	55
21	Ancestral patterns in bird limb development: A new look at Hampe's experiment. <i>Journal of Evolutionary Biology</i> , 1989, 2, 31-47.	0.8	46
22	Past climate change on Sky Islands drives novelty in a core developmental gene network and its phenotypic. <i>BMC Evolutionary Biology</i> , 2015, 15, 183.	3.2	36
23	The parasellar region of human infants: cavernous sinus topography and surgical approaches. <i>Journal of Neurosurgery</i> , 1999, 90, 484-490.	0.9	33
24	Phenotypic Novelty in EvoDevo: The Distinction Between Continuous and Discontinuous Variation and Its Importance in Evolutionary Theory. <i>Evolutionary Biology</i> , 2016, 43, 314-335.	0.5	31
25	Natural and experimental reduction of the avian fibula: Developmental thresholds and evolutionary constraint. <i>Journal of Morphology</i> , 1992, 214, 269-285.	0.6	30
26	Experimental Strategies in Evolutionary Embryology. <i>American Zoologist</i> , 1991, 31, 605-615.	0.7	29
27	Polydactyly in Development, Inheritance, and Evolution. <i>Quarterly Review of Biology</i> , 2017, 92, 1-38.	0.0	29
28	Generation, Integration, Autonomy: Three Steps in the Evolution of Homology. <i>Novartis Foundation Symposium</i> , 1999, 222, 65-79.	1.2	26
29	Anatomical compartments of the parasellar region: adipose tissue bodies represent intracranial continuations of extracranial spaces. <i>Journal of Anatomy</i> , 1997, 191, 269-275.	0.9	25
30	Limb development in a primitive crustacean, <i>Triops longicaudatus</i> : subdivision of the early limb bud gives rise to multibranching limbs. <i>Development Genes and Evolution</i> , 1996, 206, 161-168.	0.4	24
31	3D modelling of gene expression patterns. <i>Trends in Biotechnology</i> , 2001, 19, 145-148.	4.9	21
32	Biased Polyphenism in Polydactylous Cats Carrying a Single Point Mutation: The Hemingway Model for Digit Novelty. <i>Evolutionary Biology</i> , 2014, 41, 262-275.	0.5	21
33	Studying Developmental Variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , 2014, 9, e115076.	1.1	19
34	The cephalopod arm crown: appendage formation and differentiation in the Hawaiian bobtail squid <i>Euprymna scolopes</i> . <i>Frontiers in Zoology</i> , 2016, 13, 44.	0.9	14
35	Heterochrony and Early Left-Right Asymmetry in the Development of the Cardiorespiratory System of Snakes. <i>PLoS ONE</i> , 2015, 10, e116416.	1.1	14
36	Three-dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. <i>Journal of Anatomy</i> , 2008, 212, 636-644.	0.9	13

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37	A threshold model for polydactyly. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 137, 1-11.	1.4	13
38	Lindsay Craig "The So-Called Extended Synthesis and Population Genetics (<i>Biological Theory</i> 5: 117-123.) <i>Trends in Ecology & Evolution</i> / <i>Overlooked</i>	0.8	11
39	The lateral mesodermal divide: an epigenetic model of the origin of paired fins. <i>Evolution & Development</i> , 2014, 16, 38-48.	1.1	10
40	Developmental finite element analysis of cichlid pharyngeal jaws: Quantifying the generation of a key innovation. <i>PLoS ONE</i> , 2018, 13, e0189985.	1.1	10
41	Pere Alberch: Originator of EvoDevo. <i>Biological Theory</i> , 2008, 3, 351-356.	0.8	6
42	EvoDevo Shapes the Extended Synthesis. <i>Biological Theory</i> , 2014, 9, 119-121.	0.8	5
43	External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections. , 1997, 248, 583.		5
44	Beyond Spandrels: Stephen J. Gould, EvoDevo, and the Extended Synthesis. , 2013, , 85-99.		5
45	Evo-Devo's Contributions to the Extended Evolutionary Synthesis. , 2021, , 1127-1138.		4
46	BIO. <i>Evolution & Development</i> , 2011, 13, 243-246.	1.1	2
47	Rupert Riedl's Path of Cognition. <i>Biological Theory</i> , 2006, 1, 188-190.	0.8	1
48	Evo-Devo's Contributions to the Extended Evolutionary Synthesis. , 2020, , 1-12.		1