

Gerd B Müller

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5318/gerd-b-muller-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

3,198
citations

24
h-index

51
g-index

51
ext. papers

3,697
ext. citations

5.7
avg, IF

5.5
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 46 | Does evolutionary theory need a rethink?. <i>Nature</i> , 2014 , 514, 161-4 | 50.4 | 530 |
| 45 | The extended evolutionary synthesis: its structure, assumptions and predictions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20151019 | 4.4 | 528 |
| 44 | Evo-devo: extending the evolutionary synthesis. <i>Nature Reviews Genetics</i> , 2007 , 8, 943-9 | 30.1 | 377 |
| 43 | Epigenetic mechanisms of character origination. <i>The Journal of Experimental Zoology</i> , 2000 , 288, 304-17 | | 185 |
| 42 | 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, 213-21 | | 125 |
| 41 | The innovation triad: an EvoDevo agenda. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005 , 304, 487-503 | 1.8 | 125 |
| 40 | Before programs: the physical origination of multicellular forms. <i>International Journal of Developmental Biology</i> , 2006 , 50, 289-99 | 1.9 | 113 |
| 39 | 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 | 1.6 | 96 |
| 38 | A comparative study of stereolithographically modelled skulls of <i>Petralona</i> and Broken Hill: implications for future studies of middle Pleistocene hominid evolution. <i>Journal of Human Evolution</i> , 1997 , 33, 691-703 | 3.1 | 88 |
| 37 | Computer-based three-dimensional visualization of developmental gene expression. <i>Nature Genetics</i> , 2000 , 25, 147-52 | 36.3 | 74 |
| 36 | External marker-based automatic congruencing: a new method of 3D reconstruction from serial sections. <i>The Anatomical Record</i> , 1997 , 248, 583-602 | | 73 |
| 35 | Embryonic motility: environmental influences and evolutionary innovation. <i>Evolution & Development</i> , 2003 , 5, 56-60 | 2.6 | 71 |
| 34 | Why an extended evolutionary synthesis is necessary. <i>Interface Focus</i> , 2017 , 7, 20170015 | 3.9 | 64 |
| 33 | Homology, Hox Genes, and Developmental Integration. <i>American Zoologist</i> , 1996 , 36, 4-13 | | 62 |
| 32 | A new episcopic method for rapid 3-D reconstruction: applications in anatomy and embryology. <i>Anatomy and Embryology</i> , 1998 , 197, 341-8 | | 60 |
| 31 | 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; discussion 7-8 | 2.6 | 51 |
| 30 | Is Non-genetic Inheritance Just a Proximate Mechanism? A Corroboration of the Extended Evolutionary Synthesis. <i>Biological Theory</i> , 2013 , 7, 189-195 | 1.7 | 49 |

| | | | |
|----|---|------|----|
| 29 | MicroCT for molecular imaging: quantitative visualization of complete three-dimensional distributions of gene products in embryonic limbs. <i>Developmental Dynamics</i> , 2011 , 240, 2301-8 | 2.9 | 39 |
| 28 | The morphometrics of "masculinity" in human faces. <i>PLoS ONE</i> , 2015 , 10, e0118374 | 3.7 | 37 |
| 27 | Ancestral patterns in bird limb development: A new look at Huxley's experiment. <i>Journal of Evolutionary Biology</i> , 1989 , 2, 31-47 | 2.3 | 36 |
| 26 | The parasellar region of human infants: cavernous sinus topography and surgical approaches. <i>Journal of Neurosurgery</i> , 1999 , 90, 484-90 | 3.2 | 29 |
| 25 | Past climate change on Sky Islands drives novelty in a core developmental gene network and its phenotype. <i>BMC Evolutionary Biology</i> , 2015 , 15, 183 | 3 | 27 |
| 24 | Natural and experimental reduction of the avian fibula: Developmental thresholds and evolutionary constraint. <i>Journal of Morphology</i> , 1992 , 214, 269-285 | 1.6 | 24 |
| 23 | 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 | 3 | 24 |
| 22 | 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, 161-8 | 1.8 | 22 |
| 21 | Experimental Strategies in Evolutionary Embryology. <i>American Zoologist</i> , 1991 , 31, 605-615 | | 22 |
| 20 | Anatomical compartments of the parasellar region: adipose tissue bodies represent intracranial continuations of extracranial spaces. <i>Journal of Anatomy</i> , 1997 , 191 (Pt 2), 269-75 | 2.9 | 21 |
| 19 | 3D modelling of gene expression patterns. <i>Trends in Biotechnology</i> , 2001 , 19, 145-8 | 15.1 | 19 |
| 18 | Biased Polyphenism in Polydactylous Cats Carrying a Single Point Mutation: The Hemingway Model for Digit Novelty. <i>Evolutionary Biology</i> , 2014 , 41, 262-275 | 3 | 18 |
| 17 | Generation, integration, autonomy: three steps in the evolution of homology. <i>Novartis Foundation Symposium</i> , 1999 , 222, 65-73; discussion 73-9 | | 18 |
| 16 | Studying developmental variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , 2014 , 9, e115076 | 3.7 | 17 |
| 15 | Polydactyly in Development, Inheritance, and Evolution. <i>Quarterly Review of Biology</i> , 2017 , 92, 1-38 | 5.4 | 11 |
| 14 | The cephalopod arm crown: appendage formation and differentiation in the Hawaiian bobtail squid. <i>Frontiers in Zoology</i> , 2016 , 13, 44 | 2.8 | 10 |
| 13 | Lindsay Craig The So-Called Extended Synthesis and Population Genetics (Biological Theory 5: 117-123, 2010). <i>Biological Theory</i> , 2010 , 5, 275-276 | 1.7 | 10 |
| 12 | A threshold model for polydactyly. <i>Progress in Biophysics and Molecular Biology</i> , 2018 , 137, 1-11 | 4.7 | 9 |

| | | | |
|----|---|-----|---|
| 11 | Three-dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. <i>Journal of Anatomy</i> , 2008 , 212, 636-44 | 2.9 | 9 |
| 10 | Heterochrony and early left-right asymmetry in the development of the cardiorespiratory system of snakes. <i>PLoS ONE</i> , 2015 , 10, e116416 | 3.7 | 9 |
| 9 | Developmental finite element analysis of cichlid pharyngeal jaws: Quantifying the generation of a key innovation. <i>PLoS ONE</i> , 2018 , 13, e0189985 | 3.7 | 7 |
| 8 | The lateral mesodermal divide: an epigenetic model of the origin of paired fins. <i>Evolution & Development</i> , 2014 , 16, 38-48 | 2.6 | 7 |
| 7 | Pere Alberch: Originator of EvoDevo. <i>Biological Theory</i> , 2008 , 3, 351-356 | 1.7 | 5 |
| 6 | External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections 1997 , 248, 583 | | 5 |
| 5 | Beyond Spandrels: Stephen J. Gould, EvoDevo, and the Extended Synthesis 2013 , 85-99 | | 4 |
| 4 | Bio. Gerd B. Müller. <i>Evolution & Development</i> , 2011 , 13, 243-6 | 2.6 | 1 |
| 3 | Evo-Devo Contributions to the Extended Evolutionary Synthesis 2020 , 1-12 | | 1 |
| 2 | Rupert Riedel Path of Cognition. <i>Biological Theory</i> , 2006 , 1, 188-190 | 1.7 | 0 |
| 1 | Evo-Devo Contributions to the Extended Evolutionary Synthesis 2021 , 1127-1138 | | 0 |