Matthew D Herron

List of Publications by Year in descending order

34 papers	2,386 citations	430843 18 h-index	395678 33 g-index
39 all docs	39 docs citations	39 times ranked	2840 citing authors

#	Article	IF	Citations
1	Phylotranscriptomics points to multiple independent origins of multicellularity and cellular differentiation in the volvocine algae. BMC Biology, 2021, 19, 182.	3.8	15
2	Green Algal Models for Multicellularity. Annual Review of Genetics, 2021, 55, 603-632.	7.6	23
3	What are the major transitions?. Biology and Philosophy, 2021, 36, 1.	1.4	10
4	Cryopreservation of clonal and polyclonal populations of Chlamydomonas reinhardtii. Biology Methods and Protocols, 2021, 6, bpab011.	2.2	1
5	Evolution of altruistic cooperation among nascent multicellular organisms. Evolution; International Journal of Organic Evolution, 2019, 73, 1012-1024.	2.3	7
6	De novo origins of multicellularity in response to predation. Scientific Reports, 2019, 9, 2328.	3.3	107
7	Repeated evolution and reversibility of selfâ€fertilization in the volvocine green algae*. Evolution; International Journal of Organic Evolution, 2018, 72, 386-398.	2.3	39
8	Genetics of a de novo origin of undifferentiated multicellularity. Royal Society Open Science, 2018, 5, 180912.	2.4	9
9	Trait heritability in major transitions. BMC Biology, 2018, 16, 145.	3.8	9
10	Multicellularity Drives the Evolution of Sexual Traits. American Naturalist, 2018, 192, E93-E105.	2.1	31
11	Analysis of motility in multicellular Chlamydomonas reinhardtii evolved under predation. PLoS ONE, 2018, 13, e0192184.	2.5	10
12	Rediscovery of the â€œancestral Volvoxâ€•species: Morphology and phylogenetic position of Pleodorina sphaerica (Volvocales, Chlorophyceae) from Thailand. Phycologia, 2017, 56, 469-475.	1.4	6
13	Nascent life cycles and the emergence of higher-level individuality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160420.	4.0	32
14	Origins of multicellular complexity: Volvox and the volvocine algae. Molecular Ecology, 2016, 25, 1213-1223.	3.9	60
15	Fitness and Individuality in Complex Life Cycles. Philosophy of Science, 2016, 83, 828-834.	1.0	1
16	Volvocine Algae: From Simple to Complex Multicellularity. Advances in Marine Genomics, 2015, , 129-152.	1.2	27
17	Morphology and reproduction ofVolvox capensis(Volvocales, Chlorophyceae) from Montana, USA. Phycologia, 2015, 54, 316-320.	1.4	15
18	Fitness trade-offs and developmental constraints in the evolution of soma: an experimental study in a volvocine alga. Evolutionary Ecology Research, 2014, 16, 203-221.	2.0	4

#	Article	IF	Citations
19	Cellular differentiation and individuality in the â€˜minorâ€™ multicellular taxa. Biological Reviews, 2013, 88, 844-861.	10.4	70
20	Parallel Evolutionary Dynamics of Adaptive Diversification in Escherichia coli. PLoS Biology, 2013, 11, e1001490.	5.6	180
21	Experimental evolution of an alternating uni- and multicellular life cycle in Chlamydomonas reinhardtii. Nature Communications, 2013, 4, 2742.	12.8	146
22	Phylogeny and Molecular Evolution of the Green Algae. Critical Reviews in Plant Sciences, 2012, 31, 1-46.	5.7	723
23	Adaptive diversification of a plastic trait in a predictably fluctuating environment. Journal of Theoretical Biology, 2011, 285, 58-68.	1.7	10
24	EVOLUTION OF DEVELOPMENTAL PROGRAMS INVOLVOX(CHLOROPHYTA). Journal of Phycology, 2010, 46, 316-324.	2.3	32
25	Many from one. Communicative and Integrative Biology, 2009, 2, 368-370.	1.4	6
26	Triassic origin and early radiation of multicellular volvocine algae. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3254-3258.	7.1	224
27	EVOLUTION OF COMPLEXITY IN THE VOLVOCINE ALGAE: TRANSITIONS IN INDIVIDUALITY THROUGH DARWIN'S EYE. Evolution; International Journal of Organic Evolution, 2008, 62, 436-451.	2.3	160
28	Does Biology Need an Organism Concept?. Biological Reviews, 2008, 83, 621-627.	10.4	106
29	Comparative mitochondrial genomics of snakes: extraordinary substitution rate dynamics and functionality of the duplicate control region. BMC Evolutionary Biology, 2007, 7, 123.	3.2	96
30	Cooperation and conflict during evolutionary transitions in individuality. Journal of Evolutionary Biology, 2006, 19, 1406-1409.	1.7	61
31	Phylogeny and historical biogeography of African ground squirrels: the role of climate change in the evolution of Xerus. Molecular Ecology, 2005, 14, 2773-2788.	3.9	28
32	Xerus erythropus. Mammalian Species, 2004, 748, 1-4.	0.7	6
33	Sciurid phylogeny and the paraphyly of Holarctic ground squirrels (Spermophilus). Molecular Phylogenetics and Evolution, 2004, 31, 1015-1030.	2.7	116
34	Xerus princeps. Mammalian Species, 2004, 751, 1-3.	0.7	0