

Todd H Oakley

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

8,102
citations

71102

41
h-index

51608

86
g-index

110
all docs

110
docs citations

110
times ranked

9792
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ecoresponsive Genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011, 331, 555-561.	12.6	1,086
2	The <i>Amphimedon queenslandica</i> genome and the evolution of animal complexity. <i>Nature</i> , 2010, 466, 720-726.	27.8	917
3	Using Phylogenetic, Functional and Trait Diversity to Understand Patterns of Plant Community Productivity. <i>PLoS ONE</i> , 2009, 4, e5695.	2.5	558
4	Evolutionary history and the effect of biodiversity on plant productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17012-17017.	7.1	503
5	Reconstructing ancestral character states: a critical reappraisal. <i>Trends in Ecology and Evolution</i> , 1998, 13, 361-366.	8.7	484
6	Phylogenetic diversity metrics for ecological communities: integrating species richness, abundance and evolutionary history. <i>Ecology Letters</i> , 2010, 13, 96-105.	6.4	340
7	Phylotranscriptomics to Bring the Understudied into the Fold: Monophyletic Ostracoda, Fossil Placement, and Pancrustacean Phylogeny. <i>Molecular Biology and Evolution</i> , 2013, 30, 215-233.	8.9	218
8	A Post-Synaptic Scaffold at the Origin of the Animal Kingdom. <i>PLoS ONE</i> , 2007, 2, e506.	2.5	215
9	Experimental evidence that evolutionary relatedness does not affect the ecological mechanisms of coexistence in freshwater green algae. <i>Ecology Letters</i> , 2013, 16, 1373-1381.	6.4	158
10	INDEPENDENT CONTRASTS SUCCEED WHERE ANCESTOR RECONSTRUCTION FAILS IN A KNOWN BACTERIOPHAGE PHYLOGENY. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 397-405.	2.3	155
11	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a re-examination of 16 grassland biodiversity studies. <i>Functional Ecology</i> , 2015, 29, 615-626.	3.6	124
12	Symbiotic organs shaped by distinct modes of genome evolution in cephalopods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3030-3035.	7.1	123
13	Molecular phylogenetic evidence for the independent evolutionary origin of an arthropod compound eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1426-1430.	7.1	119
14	Phylogeny of Salmonine Fishes Based on Growth Hormone Introns: Atlantic (<i>Salmo</i>) and Pacific (<i>Oncorhynchus</i>) Salmon Are Not Sister Taxa. <i>Molecular Phylogenetics and Evolution</i> , 1999, 11, 381-393.	2.7	115
15	Evidence for light perception in a bioluminescent organ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9836-9841.	7.1	99
16	The Origins of Novel Protein Interactions during Animal Opsin Evolution. <i>PLoS ONE</i> , 2007, 2, e1054.	2.5	99
17	The last common ancestor of most bilaterian animals possessed at least 9 opsins. <i>Genome Biology and Evolution</i> , 2016, 8, e1248.	2.5	92
18	A multi-gene phylogeny of Cephalopoda supports convergent morphological evolution in association with multiple habitat shifts in the marine environment. <i>BMC Evolutionary Biology</i> , 2012, 12, 129.	3.2	91

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19	Blue-light-receptive cryptochrome is expressed in a sponge eye lacking neurons and opsin. <i>Journal of Experimental Biology</i> , 2012, 215, 1278-1286.	1.7	90
20	Eye-independent, light-activated chromatophore expansion (LACE) and expression of phototransduction genes in the skin of <i>Octopus bimaculoides</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 1513-1520.	1.7	90
21	The Dynamic Evolutionary History of Pancrustacean Eyes and Opsins. <i>Integrative and Comparative Biology</i> , 2015, 55, 830-842.	2.0	89
22	Molecular Evolution of Bat Color Vision Genes. <i>Molecular Biology and Evolution</i> , 2003, 21, 295-302.	8.9	86
23	Genome duplication and multiple evolutionary origins of complex migratory behavior in Salmonidae. <i>Molecular Phylogenetics and Evolution</i> , 2013, 69, 514-523.	2.7	86
24	Molecular clocks indicate turnover and diversification of modern coleoid cephalopods during the Mesozoic Marine Revolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162818.	2.6	86
25	Cnidocyte discharge is regulated by light and opsin-mediated phototransduction. <i>BMC Biology</i> , 2012, 10, 17.	3.8	82
26	Predictable transcriptome evolution in the convergent and complex bioluminescent organs of squid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4736-42.	7.1	77
27	The evolution of phototransduction from an ancestral cyclic nucleotide gated pathway. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1963-1969.	2.6	75
28	Comparative Methods for the Analysis of Gene-Expression Evolution: An Example Using Yeast Functional Genomic Data. <i>Molecular Biology and Evolution</i> , 2005, 22, 40-50.	8.9	68
29	The new biology: beyond the Modern Synthesis. <i>Biology Direct</i> , 2007, 2, 30.	4.6	62
30	Using phylogenetically-informed annotation (PIA) to search for light-interacting genes in transcriptomes from non-model organisms. <i>BMC Bioinformatics</i> , 2014, 15, 350.	2.6	62
31	The Comb Jelly Opsins and the Origins of Animal Phototransduction. <i>Genome Biology and Evolution</i> , 2014, 6, 1964-1971.	2.5	62
32	On Homology of Arthropod Compound Eyes. <i>Integrative and Comparative Biology</i> , 2003, 43, 522-530.	2.0	56
33	High Rates of Species Accumulation in Animals with Bioluminescent Courtship Displays. <i>Current Biology</i> , 2016, 26, 1916-1921.	3.9	55
34	Understanding the dermal light sense in the context of integrative photoreceptor cell biology. <i>Visual Neuroscience</i> , 2011, 28, 265-279.	1.0	54
35	Evolutionary history and the strength of species interactions: testing the phylogenetic limiting similarity hypothesis. <i>Ecology</i> , 2014, 95, 1407-1417.	3.2	54
36	The influence of phylogenetic relatedness on species interactions among freshwater green algae in a mesocosm experiment. <i>Journal of Ecology</i> , 2014, 102, 1288-1299.	4.0	53

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37	Gene duplication and the origins of morphological complexity in pancrustacean eyes, a genomic approach. <i>BMC Evolutionary Biology</i> , 2010, 10, 123.	3.2	52
38	The eye as a replicating and diverging, modular developmental unit. <i>Trends in Ecology and Evolution</i> , 2003, 18, 623-627.	8.7	49
39	Repression and loss of gene expression outpaces activation and gain in recently duplicated fly genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11637-11641.	7.1	49
40	Prolific Origination of Eyes in Cnidaria with Co-option of Non-visual Opsins. <i>Current Biology</i> , 2018, 28, 2413-2419.e4.	3.9	48
41	The Evolution of Complexity in the Visual Systems of Stomatopods: Insights from Transcriptomics. <i>Integrative and Comparative Biology</i> , 2013, 53, 39-49.	2.0	45
42	Key transitions during the evolution of animal phototransduction: novelty, "tree-thinking," co-option, and co-duplication. <i>Integrative and Comparative Biology</i> , 2007, 47, 759-769.	2.0	44
43	Erratic rates of molecular evolution and incongruence of fossil and molecular divergence time estimates in Ostracoda (Crustacea). <i>Molecular Phylogenetics and Evolution</i> , 2008, 48, 157-167.	2.7	44
44	How Complexity Originates: The Evolution of Animal Eyes. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2015, 46, 237-260.	8.3	44
45	Hierarchical phylogenetics as a quantitative analytical framework for evolutionary developmental biology. <i>BioEssays</i> , 2005, 27, 1158-1166.	2.5	43
46	Myodocopa (Crustacea: Ostracoda) as models for evolutionary studies of light and vision: multiple origins of bioluminescence and extreme sexual dimorphism. <i>Hydrobiologia</i> , 2005, 538, 179-192.	2.0	39
47	New insights into the evolutionary history of photoreceptor cells. <i>Trends in Ecology and Evolution</i> , 2005, 20, 465-467.	8.7	39
48	Osiris: accessible and reproducible phylogenetic and phylogenomic analyses within the Galaxy workflow management system. <i>BMC Bioinformatics</i> , 2014, 15, 230.	2.6	36
49	Dispersal between Shallow and Abyssal Seas and Evolutionary Loss and Regain of Compound Eyes in Cylindroleberidid Ostracods: Conflicting Conclusions from Different Comparative Methods. <i>Systematic Biology</i> , 2012, 61, 314.	5.6	35
50	Multi-level convergence of complex traits and the evolution of bioluminescence. <i>Biological Reviews</i> , 2021, 96, 673-691.	10.4	35
51	The shell-eyes of the chiton <i>Acanthopleura granulata</i> (Mollusca, Polyplacophora) use pheomelanin as a screening pigment. <i>Journal of Natural History</i> , 2014, 48, 2899-2911.	0.5	34
52	Furcation, field-splitting, and the evolutionary origins of novelty in arthropod photoreceptors. <i>Arthropod Structure and Development</i> , 2007, 36, 386-400.	1.4	30
53	Type II Opsins: Evolutionary Origin by Internal Domain Duplication?. <i>Journal of Molecular Evolution</i> , 2008, 66, 417-423.	1.8	28
54	Genomics and the evolutionary origins of nervous system complexity. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 479-492.	3.3	27

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55	Differential Expression of Duplicated Opsin Genes in Two Eye Types of Ostracod Crustaceans. <i>Journal of Molecular Evolution</i> , 2004, 59, 239-249.	1.8	26
56	Evolutionary relatedness does not predict competition and co-occurrence in natural or experimental communities of green algae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141745.	2.6	26
57	Eye-specification genes in the bacterial light organ of the bobtail squid <i>Euprymna scolopes</i> , and their expression in response to symbiont cues. <i>Mechanisms of Development</i> , 2014, 131, 111-126.	1.7	25
58	Ecological interactions and coexistence are predicted by gene expression similarity in freshwater green algae. <i>Journal of Ecology</i> , 2017, 105, 580-591.	4.0	25
59	Ocular and Extraocular Expression of Opsins in the Rhopalium of <i>Tripedalia cystophora</i> (Cnidaria: Tj ETQq1 1 0.784314 rgBT JOverlod	2.5	25
60	Myelin sheaths are formed with proteins that originated in vertebrate lineages. <i>Neuron Glia Biology</i> , 2008, 4, 137-152.	1.6	24
61	A Transcriptomic Analysis of Cave, Surface, and Hybrid Isopod Crustaceans of the Species <i>Asellus aquaticus</i> . <i>PLoS ONE</i> , 2015, 10, e0140484.	2.5	24
62	Furcation and fusion: The phylogenetics of evolutionary novelty. <i>Developmental Biology</i> , 2017, 431, 69-76.	2.0	24
63	Evasion of Predators Contributes to the Maintenance of Male Eyes in Sexually Dimorphic <i>Euphilomedes</i> Ostracods (Crustacea). <i>Integrative and Comparative Biology</i> , 2013, 53, 78-88.	2.0	22
64	Evidence supporting the paraphyly of <i>Hucho</i> (Salmonidae) based on ribosomal DNA restriction maps. <i>Journal of Fish Biology</i> , 1995, 47, 956-961.	1.6	20
65	Common Ancestry Is a Poor Predictor of Competitive Traits in Freshwater Green Algae. <i>PLoS ONE</i> , 2015, 10, e0137085.	2.5	20
66	CoMET: A Mesquite Package for Comparing Models of Continuous Character Evolution on Phylogenies. <i>Evolutionary Bioinformatics</i> , 2006, 2, 117693430600200.	1.2	19
67	Phylogenetic analysis of Pacific salmon (<l>genus <i>Oncorhynchus</i> </l>) using nuclear and mitochondrial DNA sequences. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 1865-1872.	1.4	18
68	Ontogeny of sexual dimorphism via tissue duplication in an ostracod (Crustacea). <i>Evolution & Development</i> , 2009, 11, 233-243.	2.0	17
69	The Genome Sizes of Ostracod Crustaceans Correlate with Body Size and Evolutionary History, but not Environment. <i>Journal of Heredity</i> , 2017, 108, 701-706.	2.4	17
70	INDEPENDENT CONTRASTS SUCCEED WHERE ANCESTOR RECONSTRUCTION FAILS IN A KNOWN BACTERIOPHAGE PHYLOGENY. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 397.	2.3	16
71	Reconstructing ancestral genome content based on symmetrical best alignments and Dollo parsimony. <i>Bioinformatics</i> , 2008, 24, 606-612.	4.1	16
72	Opening the "Black Box": The Genetic and Biochemical Basis of Eye Evolution. <i>Evolution: Education and Outreach</i> , 2008, 1, 390-402.	0.8	14

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73	Selection, drift, and constraint in cypridinid luciferases and the diversification of bioluminescent signals in sea fireflies. <i>Molecular Ecology</i> , 2021, 30, 1864-1879.	3.9	14
74	<i>Euphilomedes chupacabra</i> (Ostracoda: Myodocopida: Philomedidae), a new demersal marine species from coastal Puerto Rico with male-biased vespertine swimming activity. <i>Zootaxa</i> , 2008, 1684, 35.	0.5	13
75	Shared ancestry influences community stability by altering competitive interactions: evidence from a laboratory microcosm experiment using freshwater green algae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131548.	2.6	13
76	Further reanalyses looking for effects of phylogenetic diversity on community biomass and stability. <i>Functional Ecology</i> , 2015, 29, 1607-1610.	3.6	13
77	Multimodal sensorimotor system in unicellular zoospores of a fungus. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	13
78	Physical localization and characterization of the BgII element in the genomes of Atlantic salmon (<i>Salmo salar</i> L.) and brown trout (<i>S. trutta</i> L.). <i>Gene</i> , 1997, 194, 9-18.	2.2	12
79	Opsins in <i>Limulus</i> eyes: Characterization of three visible light-sensitive opsins unique to and co-expressed in median eye photoreceptors and a peropsin/RGR that is expressed in all eyes. <i>Journal of Experimental Biology</i> , 2014, 218, 466-79.	1.7	12
80	Occurrence of Hemocyanin in Ostracod Crustaceans. <i>Journal of Molecular Evolution</i> , 2014, 79, 3-11.	1.8	11
81	Collecting and processing marine ostracods. <i>Journal of Crustacean Biology</i> , 2017, 37, 347-352.	0.8	11
82	Today's multiple choice exam: (a) gene duplication; (b) structural mutation; (c) cooption; (d) regulatory mutation; (e) all of the above. <i>Evolution & Development</i> , 2007, 9, 523-524.	2.0	10
83	Light-induced stress as a primary evolutionary driver of eye origins. <i>Integrative and Comparative Biology</i> , 2019, 59, 739-750.	2.0	10
84	Phenotypic evolution shaped by current enzyme function in the bioluminescent courtship signals of sea fireflies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182621.	2.6	10
85	Context-dependent evolution of ostracod morphology along the ecogeographical gradient of ocean depth. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1213-1225.	2.3	9
86	<i>Mixibius parvus</i> sp. nov. and <i>Diphascon ziliense</i> sp. nov., two new species of Eutardigrada from Sicily . <i>Zootaxa</i> , 2014, 3802, 459.	0.5	8
87	Light modulated cnidocyte discharge predates the origins of eyes in Cnidaria. <i>Ecology and Evolution</i> , 2021, 11, 3933-3940.	1.9	8
88	Laboratory culture of the California Sea Firefly <i>Vargula tsujii</i> (Ostracoda: Cypridinidae): Developing a model system for the evolution of marine bioluminescence. <i>Scientific Reports</i> , 2020, 10, 10443.	3.3	7
89	CoMET: a Mesquite package for comparing models of continuous character evolution on phylogenies. <i>Evolutionary Bioinformatics</i> , 2007, 2, 183-6.	1.2	7
90	Different phylogenomic methods support monophyly of enigmatic "Mesozoa" (Dicyemida +) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	2.6	7

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91	Sequence, overproduction and purification of <i>Vibrio proteolyticus</i> ribosomal protein L 18 for in vitro and in vivo studies. <i>Gene</i> , 1996, 183, 237-242.	2.2	6
92	Ecological Engineering Helps Maximize Function in Algal Oil Production. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	6
93	An AluI fragment isolated from lake trout (<i>Salvelinus namaycush</i>), maps to the intergenic spacer region of the rDNA cistron. <i>Gene</i> , 1997, 186, 7-11.	2.2	5
94	<p>Two new sympatric species of Eusarsiella (Ostracoda: Tj ETQqO 0 0 rgBT /Overlock 10 Tf Sarselliinae</p>. <i>Zootaxa</i> , 2014, 3802, 444.	0.5	4
95	Bioluminescent Signals. , 2019, , 449-461.		3
96	Key Transitions During Animal Phototransduction Evolution. , 2010, , 217-237.		1
97	Phylogenetic position of <i>Alternochelata lizardensis</i> Kornicker, 1982 within Rutidermatidae (Ostracoda: Myodocopida), with an investigation into its green coloration. <i>Journal of Crustacean Biology</i> , 2019, 39, 559-566.	0.8	0
98	Evolving witnesses of changing environments: An introduction to the 18th International Symposium on Ostracoda. <i>Journal of Crustacean Biology</i> , 2019, 39, 199-201.	0.8	0