

Gregory L Owens

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,933
citations

331670

21
h-index

315739

38
g-index

49
all docs

49
docs citations

49
times ranked

4295
citing authors

#	ARTICLE	IF	CITATIONS
1	The sunflower genome provides insights into oil metabolism, flowering and Asterid evolution. <i>Nature</i> , 2017, 546, 148-152.	27.8	579
2	Hybridization and extinction. <i>Evolutionary Applications</i> , 2016, 9, 892-908.	3.1	517
3	Massive haplotypes underlie ecotypic differentiation in sunflowers. <i>Nature</i> , 2020, 584, 602-607.	27.8	263
4	Sunflower pan-genome analysis shows that hybridization altered gene content and disease resistance. <i>Nature Plants</i> , 2019, 5, 54-62.	9.3	172
5	Gene flow and selection interact to promote adaptive divergence in regions of low recombination. <i>Molecular Ecology</i> , 2017, 26, 4378-4390.	3.9	121
6	The Genetics of Seasonal Migration and Plumage Color. <i>Current Biology</i> , 2016, 26, 2167-2173.	3.9	101
7	Multiple chromosomal inversions contribute to adaptive divergence of a dune sunflower ecotype. <i>Molecular Ecology</i> , 2020, 29, 2535-2549.	3.9	100
8	Opsin gene duplication and divergence in ray-finned fish. <i>Molecular Phylogenetics and Evolution</i> , 2012, 62, 986-1008.	2.7	99
9	Recurrent selection explains parallel evolution of genomic regions of high relative but low absolute differentiation in a ring species. <i>Molecular Ecology</i> , 2016, 25, 4488-4507.	3.9	98
10	Shared selective pressure and local genomic landscape lead to repeatable patterns of genomic divergence in sunflowers. <i>Molecular Ecology</i> , 2014, 23, 311-324.	3.9	74
11	Origins and evolution of extreme life span in Pacific Ocean rockfishes. <i>Science</i> , 2021, 374, 842-847.	12.6	71
12	The molecular basis of color vision in colorful fish: Four Long Wave-Sensitive (LWS) opsins in guppies (<i>Poecilia reticulata</i>) are defined by amino acid substitutions at key functional sites. <i>BMC Evolutionary Biology</i> , 2008, 8, 210.	3.2	60
13	Revisiting a classic case of introgression: hybridization and gene flow in Californian sunflowers. <i>Molecular Ecology</i> , 2016, 25, 2630-2643.	3.9	49
14	Genome-wide genotyping-by-sequencing data provide a high-resolution view of wild <i>Helianthus</i> diversity, genetic structure, and interspecies gene flow. <i>American Journal of Botany</i> , 2016, 103, 2170-2177.	1.7	48
15	Parallel Ecological Speciation in Plants?. <i>International Journal of Ecology</i> , 2012, 2012, 1-17.	0.8	47
16	Hybridization speeds adaptive evolution in an eight-year field experiment. <i>Scientific Reports</i> , 2019, 9, 6746.	3.3	47
17	Rapid adaptive evolution of colour vision in the threespine stickleback radiation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160242.	2.6	42
18	A Fish Eye Out of Water: Ten Visual Opsins in the Four-Eyed Fish, <i>Anableps anableps</i> . <i>PLoS ONE</i> , 2009, 4, e5970.	2.5	36

#	ARTICLE	IF	CITATIONS
19	BSA-seq mapping reveals major QTL for broomrape resistance in four sunflower lines. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	34
20	Genomic sequence and copy number evolution during hybrid crop development in sunflowers. <i>Evolutionary Applications</i> , 2019, 12, 54-65.	3.1	27
21	There and back again; historical perspective and future directions for <i>Vaccinium</i> breeding and research studies. <i>Horticulture Research</i> , 2022, 9, .	6.3	27
22	HYBRID INCOMPATIBILITY IS ACQUIRED FASTER IN ANNUAL THAN IN PERENNIAL SPECIES OF SUNFLOWER AND TARWEED. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 893-900.	2.3	26
23	A novel post hoc method for detecting index switching finds no evidence for increased switching on the Illumina HiSeq X. <i>Molecular Ecology Resources</i> , 2018, 18, 169-175.	4.8	25
24	Contemporary evolution of maize landraces and their wild relatives influenced by gene flow with modern maize varieties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21302-21311.	7.1	25
25	Genetic basis and dual adaptive role of floral pigmentation in sunflowers. <i>ELife</i> , 2022, 11, .	6.0	24
26	Gene flow in Argentinian sunflowers as revealed by genotyping-by-sequencing data. <i>Evolutionary Applications</i> , 2018, 11, 193-204.	3.1	23
27	In the four-eyed fish (<i>Anableps anableps</i>), the regions of the retina exposed to aquatic and aerial light do not express the same set of opsin genes. <i>Biology Letters</i> , 2012, 8, 86-89.	2.3	22
28	Intra-retinal variation of opsin gene expression in the guppy (<i>Poecilia reticulata</i>). <i>Journal of Experimental Biology</i> , 2011, 214, 3248-3254.	1.7	20
29	Adaptive introgression during environmental change can weaken reproductive isolation. <i>Nature Climate Change</i> , 2020, 10, 58-62.	18.8	20
30	The genetic architecture of UV floral patterning in sunflower. <i>Annals of Botany</i> , 2017, 120, 39-50.	2.9	19
31	Mutation Load in Sunflower Inversions Is Negatively Correlated with Inversion Heterozygosity. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	18
32	Shared Patterns of Genome-Wide Differentiation Are More Strongly Predicted by Geography Than by Ecology. <i>American Naturalist</i> , 2020, 195, 192-200.	2.1	17
33	Standing variation rather than recent adaptive introgression probably underlies differentiation of the <i>texasus</i> subspecies of <i>Helianthus annuus</i> . <i>Molecular Ecology</i> , 2021, 30, 6229-6245.	3.9	13
34	Expression complementation of gene presence/absence polymorphisms in hybrids contributes importantly to heterosis in sunflower. <i>Journal of Advanced Research</i> , 2022, 42, 83-98.	9.5	12
35	The opsin repertoire of <i>Jenynsia onca</i> : a new perspective on gene duplication and divergence in livebearers. <i>BMC Research Notes</i> , 2009, 2, 159.	1.4	11
36	Evolutionary ecology of opsin gene sequence, expression and repertoire. <i>Molecular Ecology</i> , 2017, 26, 1207-1210.	3.9	8

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37	Hybrid evolution repeats itself across environmental contexts in Texas sunflowers () Tj ETQq1 1 0.784314 rgBT /Overlock 10 If 50 742	2.3	5
38	Parallel shifts of visual sensitivity and body coloration in replicate populations of extremophile fish. Molecular Ecology, 2022, 31, 946-958.	3.9	3
39	From common gardens to candidate genes: an elegant case of homoploid hybrid speciation. Molecular Plant, 2021, 14, 200-201.	8.3	0