Adriana D Briscoe

List of Publications by Year
in descending order

72 papers	6,192 citations	101543 36 h-index	79698 73 g-index
78 all docs	78 docs citations	78 times ranked	5879 citing authors

#	Article	IF	Citations
1	THEEVOLUTION OFCOLORVISION ININSECTS. Annual Review of Entomology, 2001, 46, 471-510.	11.8	1,230
2	Butterfly genome reveals promiscuous exchange of mimicry adaptations among species. Nature, 2012, 487, 94-98.	27.8	1,086
3	Insect Cryptochromes: Gene Duplication and Loss Define Diverse Ways to Construct Insect Circadian Clocks. Molecular Biology and Evolution, 2007, 24, 948-955.	8.9	345
4	The two CRYs of the butterfly. Current Biology, 2005, 15, R953-R954.	3.9	217
5	Connecting the Navigational Clock to Sun Compass Input in Monarch Butterfly Brain. Neuron, 2005, 46, 457-467.	8.1	183
6	Female Behaviour Drives Expression and Evolution of Gustatory Receptors in Butterflies. PLoS Genetics, 2013, 9, e1003620.	3.5	154
7	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, Manduca sexta. Insect Biochemistry and Molecular Biology, 2016, 76, 118-147.	2.7	154
8	Positive selection of a duplicated UV-sensitive visual pigment coincides with wing pigment evolution in <i>Heliconius</i> butterflies. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3628-3633.	7.1	148
9	Reconstructing the ancestral butterfly eye: focus on the opsins. Journal of Experimental Biology, 2008, 211, 1805-1813.	1.7	110
10	Color discrimination in the red range with only one long-wavelength sensitive opsin. Journal of Experimental Biology, 2006, 209, 1944-1955.	1.7	107
11	Warning signals are seductive: Relative contributions of color and pattern to predator avoidance and mate attraction in<i>Heliconius</i>butterflies. Evolution; International Journal of Organic Evolution, 2014, 68, 3410-3420.	2.3	101
12	Molecular characterization and expression of the UV opsin in bumblebees:three ommatidial subtypes in the retina and a new photoreceptor organ in the lamina. Journal of Experimental Biology, 2005, 208, 2347-2361.	1.7	99
13	Not all butterfly eyes are created equal: Rhodopsin absorption spectra, molecular identification, and localization of ultraviolet-, blue-, and green-sensitive rhodopsin-encoding mRNAs in the retina ofVanessa cardui. Journal of Comparative Neurology, 2003, 458, 334-349.	1.6	98
14	UV Photoreceptors and UV-Yellow Wing Pigments in<i>Heliconius</i>Butterflies Allow a Color Signal to Serve both Mimicry and Intraspecific Communication. American Naturalist, 2012, 179, 38-51.	2.1	98
15	Beauty in the eye of the beholder: the two blue opsins of lycaenid butterflies and the opsin gene-driven evolution of sexually dimorphic eyes. Journal of Experimental Biology, 2006, 209, 3079-3090.	1.7	90
16	Color vision and learning in the monarch butterfly,<i>Danaus plexippus</i>(Nymphalidae). Journal of Experimental Biology, 2011, 214, 509-520.	1.7	85
17	Six Opsins from the Butterfly Papilio glaucus: Molecular Phylogenetic Evidence for Paralogous Origins of Red-Sensitive Visual Pigments in Insects. Journal of Molecular Evolution, 2000, 51, 110-121.	1.8	81
18	Multiple recent co-options of Optix associated with novel traits in adaptive butterfly wing radiations. EvoDevo, 2014, 5, 7.	3.2	79

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19	Evolution of color vision. Current Opinion in Neurobiology, 1999, 9, 622-627.	4.2	73
20	Rapid diversification associated with ecological specialization in Neotropical <i>Adelpha</i> butterflies. Molecular Ecology, 2015, 24, 2392-2405.	3.9	73
21	Adaptive evolution of color vision as seen through the eyes of butterflies. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8634-8640.	7.1	66
22	Gene Duplication Is an Evolutionary Mechanism for Expanding Spectral Diversity in the Long-Wavelength Photopigments of Butterflies. Molecular Biology and Evolution, 2007, 24, 2016-2028.	8.9	66
23	Early Duplication and Functional Diversification of the Opsin Gene Family in Insects. Molecular Biology and Evolution, 2004, 21, 1583-1594.	8.9	65
24	The benefit of being a social butterfly: communal roosting deters predation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2769-2776.	2.6	65
25	Functional Diversification of Lepidopteran Opsins Following Gene Duplication. Molecular Biology and Evolution, 2001, 18, 2270-2279.	8.9	62
26	Episodes in insect evolution. Integrative and Comparative Biology, 2009, 49, 590-606.	2.0	57
27	Sexual dimorphism in the compound eye of <i>Heliconius erato</i>: a nymphalid butterfly with at least five spectral classes of photoreceptor. Journal of Experimental Biology, 2016, 219, 2377-87.	1.7	57
28	Complete Dosage Compensation and Sex-Biased Gene Expression in the Moth Manduca sexta. Genome Biology and Evolution, 2014, 6, 526-537.	2.5	52
29	Infrared optical and thermal properties of microstructures in butterfly wings. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1566-1572.	7.1	51
30	Opsin Clines in Butterflies Suggest Novel Roles for Insect Photopigments. Molecular Biology and Evolution, 2015, 32, 368-379.	8.9	50
31	Ultraviolet and yellow reflectance but not fluorescence is important for visual discrimination of conspecifics by <i>Heliconius erato</i>. Journal of Experimental Biology, 2017, 220, 1267-1276.	1.7	47
32	Phenotypic plasticity in opsin expression in a butterfly compound eye complements sex role reversal. BMC Evolutionary Biology, 2012, 12, 232.	3.2	46
33	Sexual Dimorphism and Retinal Mosaic Diversification following the Evolution of a Violet Receptor in Butterflies. Molecular Biology and Evolution, 2017, 34, 2271-2284.	8.9	46
34	Eyeshine and spectral tuning of long wavelength-sensitive rhodopsins: no evidence for red-sensitive photoreceptors among five Nymphalini butterfly species. Journal of Experimental Biology, 2005, 208, 687-696.	1.7	44
35	The scale-of-choice effect and how estimates of assortative mating in the wild can be biased due to heterogeneous samples. Evolution; International Journal of Organic Evolution, 2015, 69, 1845-1857.	2.3	43
36	Molecular Diversity of Visual Pigments in the Butterfly Papilio glaucus. Die Naturwissenschaften, 1998, 85, 33-35.	1.6	41

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37	The lycaenid butterfly <i>Polyommatus icarus</i> uses a duplicated blue opsin to see green. Journal of Experimental Biology, 2008, 211, 361-369.	1.7	41
38	The spectrum of human rhodopsin disease mutations through the lens of interspecific variation. Gene, 2004, 332, 107-118.	2.2	40
39	Genome-wide analysis of ionotropic receptors provides insight into their evolution in Heliconius butterflies. BMC Genomics, 2016, 17, 254.	2.8	38
40	Contrasting Modes of Evolution of the Visual Pigments in Heliconius Butterflies. Molecular Biology and Evolution, 2010, 27, 2392-2405.	8.9	35
41	Expression of UV-, blue-, long-wavelength-sensitive opsins and melatonin in extraretinal photoreceptors of the optic lobes of hawkmoths. Cell and Tissue Research, 2005, 321, 443-458.	2.9	34
42	Impact of duplicate gene copies on phylogenetic analysis and divergence time estimates in butterflies. BMC Evolutionary Biology, 2009, 9, 99.	3.2	34
43	Transcriptome-Wide Differential Gene Expression inBicyclus anynanaButterflies: Female Vision-Related Genes Are More Plastic. Molecular Biology and Evolution, 2016, 33, 79-92.	8.9	34
44	Evolution of Phototransduction Genes in Lepidoptera. Genome Biology and Evolution, 2019, 11, 2107-2124.	2.5	32
45	Evolution of Sex-Biased Gene Expression and Dosage Compensation in the Eye and Brain of Heliconius Butterflies. Molecular Biology and Evolution, 2018, 35, 2120-2134.	8.9	31
46	Frequency dependence shapes the adaptive landscape of imperfect Batesian mimicry. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172786.	2.6	30
47	Drift and Directional Selection Are the Evolutionary Forces Driving Gene Expression Divergence in Eye and Brain Tissue of<i>Heliconius</i>Butterflies. Genetics, 2019, 213, 581-594.	2.9	29
48	Homology Modeling Suggests a Functional Role for Parallel Amino Acid Substitutions Between Bee and Butterfly Red- and Green-Sensitive Opsins. Molecular Biology and Evolution, 2002, 19, 983-986.	8.9	28
49	Longwing (Heliconius) butterflies combine a restricted set of pigmentary and structural coloration mechanisms. BMC Evolutionary Biology, 2017, 17, 226.	3.2	27
50	A butterfly eye's view of birds. BioEssays, 2008, 30, 1151-1162.	2.5	25
51	Characterisation of the RNA interference response against the long-wavelength receptor of the honeybee. Insect Biochemistry and Molecular Biology, 2013, 43, 959-969.	2.7	24
52	Molecular evolution of a long wavelength-sensitive opsin in mimetic Heliconius butterflies (Lepidoptera: Nymphalidae). Biological Journal of the Linnean Society, 2001, 72, 435-449.	1.6	23
53	Gene Duplication and Gene Expression Changes Play a Role in the Evolution of Candidate Pollen Feeding Genes in<i>Heliconius</i>Butterflies. Genome Biology and Evolution, 2016, 8, 2581-2596.	2.5	21
54	True UV color vision in a female butterfly with two UV opsins. Journal of Experimental Biology, 2021, 224, .	1.7	21

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55	Adult stemmata of the butterfly Vanessa cardui express UV and green opsin mRNAs. Cell and Tissue Research, 2005, 319, 175-179.	2.9	18
56	Multiple Mechanisms of Photoreceptor Spectral Tuning in<i>Heliconius</i>Butterflies. Molecular Biology and Evolution, 2022, 39, .	8.9	17
57	Complex dynamics underlie the evolution of imperfect wing pattern convergence in butterflies. Evolution; International Journal of Organic Evolution, 2017, 71, 949-959.	2.3	15
58	Intron splice sites of Papilio glaucus PglRh3 corroborate insect opsin phylogeny. Gene, 1999, 230, 101-109.	2.2	14
59	Genome Sequence of a Novel Iflavirus from mRNA Sequencing of the Butterfly Heliconius erato. Genome Announcements, 2014, 2, .	0.8	13
60	Molecular evolution and expression of the CRAL_TRIO protein family in insects. Insect Biochemistry and Molecular Biology, 2015, 62, 168-173.	2.7	13
61	Determination of Photoreceptor Cell Spectral Sensitivity in an Insect Model from In Vivo Intracellular Recordings. Journal of Visualized Experiments, 2016, , 53829.	0.3	11
62	From the butterflyâ€™s point of view: learned colour association determines differential pollination of two co-occurring mock verbains by <i>Agraulis vanillae</i> (Nymphalidae). Biological Journal of the Linnean Society, 2020, 130, 715-725.	1.6	9
63	Evolutionary and structural analyses uncover a role for solvent interactions in the diversification of cocoonases in butterflies. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172037.	2.6	8
64	Experimental field tests of Batesian mimicry in the swallowtail butterfly <i>Papilio polytes</i>. Ecology and Evolution, 2018, 8, 7657-7666.	1.9	8
65	Empowering Latina scientists. Science, 2019, 363, 825-826.	12.6	7
66	Air temperature drives the evolution of mid-infrared optical properties of butterfly wings. Scientific Reports, 2021, 11, 24143.	3.3	7
67	Disentangling Population History and Character Evolution among Hybridizing Lineages. Molecular Biology and Evolution, 2020, 37, 1295-1305.	8.9	5
68	The two CRYs of the butterfly. Current Biology, 2006, 16, 730.	3.9	4
69	A two-step method for identifying photopigment opsin and gene sequences underlying human color vision phenotypes. Molecular Vision, 2020, 26, 158-172.	1.1	4
70	Reply to Nozawa et al.: Complementary statistical methods support positive selection of a duplicated UV opsin gene in <i>Heliconius</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, .	7.1	3
71	Copy Number Variation and Expression Analysis Reveals a Nonorthologous Pinta Gene Family Member Involved in Butterfly Vision. Genome Biology and Evolution, 2017, 9, 3398-3412.	2.5	3
72	Molecular evolution of a long wavelength-sensitive opsin in mimetic Heliconius butterflies (Lepidoptera: Nymphalidae). Biological Journal of the Linnean Society, 2001, 72, 435-449.	1.6	3