Megan L Porter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1430058/publications.pdf

Version: 2024-02-01

35 papers	1,151 citations	430874 18 h-index	414414 32 g-index
39 all docs	39 docs citations	39 times ranked	1439 citing authors

#	Article	IF	Citations
1	Shedding new light on opsin evolution. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3-14.	2.6	206
2	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. Genome Biology, 2019, 20, 64.	8.8	114
3	The molecular basis of mechanisms underlying polarization vision. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 627-637.	4.0	67
4	Using phylogenetically-informed annotation (PIA) to search for light-interacting genes in transcriptomes from non-model organisms. BMC Bioinformatics, 2014, 15, 350.	2.6	62
5	Biological Sunscreens Tune Polychromatic Ultraviolet Vision in Mantis Shrimp. Current Biology, 2014, 24, 1636-1642.	3.9	61
6	Molecular diversity of visual pigments in Stomatopoda (Crustacea). Visual Neuroscience, 2009, 26, 255-265.	1.0	55
7	Opsin Repertoire and Expression Patterns in Horseshoe Crabs: Evidence from the Genome ofLimulus polyphemus(Arthropoda: Chelicerata). Genome Biology and Evolution, 2016, 8, 1571-1589.	2.5	50
8	Phenotypic plasticity as a mechanism of cave colonization and adaptation. ELife, 2020, 9, .	6.0	48
9	The Evolution of Complexity in the Visual Systems of Stomatopods: Insights from Transcriptomics. Integrative and Comparative Biology, 2013, 53, 39-49.	2.0	45
10	Melanization in response to wounding is ancestral in arthropods and conserved in albino cave species. Scientific Reports, 2017, 7, 17148.	3.3	38
11	Characterization of the Long-Wavelength Opsin from Mecoptera and Siphonaptera: Does a Flea See?. Molecular Biology and Evolution, 2005, 22, 1165-1174.	8.9	30
12	Taxonomic Review of the Orders Mysida and Stygiomysida (Crustacea, Peracarida). PLoS ONE, 2015, 10, e0124656.	2.5	30
13	The Evolution of Invertebrate Photopigments and Photoreceptors. , 2014, , 105-135.		26
14	Exceptional Variation on a Common Theme: The Evolution of Crustacean Compound Eyes. Evolution: Education and Outreach, 2008, 1, 463-475.	0.8	25
15	Out of the blue: the evolution of horizontally polarized signals inHaptosquilla(Crustacea,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	24
16	Beyond the Eye: Molecular Evolution of Extraocular Photoreception. Integrative and Comparative Biology, 2016, 56, 842-852.	2.0	24
17	Spectral sensitivity, visual pigments and screening pigments in two life history stages of the ontogenetic migrator Gnathophausia ingens. Journal of the Marine Biological Association of the United Kingdom, 2009, 89, 119-129.	0.8	22
18	Exceptional diversity of opsin expression patterns in Neogonodactylus oerstedii (Stomatopoda) retinas. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8948-8957.	7.1	22

#	Article	IF	Citations
19	Animal Polarization Imaging and Implications for Optical Processing. Proceedings of the IEEE, 2014, 102, 1427-1434.	21.3	21
20	Ultraviolet filters in stomatopod crustaceans: diversity, ecology, and evolution. Journal of Experimental Biology, 2015, 218, 2055-66.	1.7	19
21	Phototransduction in fan worm radiolar eyes. Current Biology, 2017, 27, R698-R699.	3.9	17
22	Evolution in the Dark: Unifying our Understanding of Eye Loss. Integrative and Comparative Biology, 2018, 58, 367-371.	2.0	15
23	Light organ photosensitivity in deep-sea shrimp may suggest a novel role in counterillumination. Scientific Reports, 2020, 10, 4485.	3.3	14
24	Surf and turf vision: Patterns and predictors of visual acuity in compound eye evolution. Arthropod Structure and Development, 2021, 60, 101002.	1.4	14
25	Expression of extraocular opsin genes and light-dependent basal activity of blind cavefish. PeerJ, 2019, 7, e8148.	2.0	14
26	Visual pigments, oil droplets, lens, and cornea characterization in the whooping crane (Grus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.7	13
27	Evolution under pressure and the adaptation of visual pigment compressibility in deep-sea environments. Molecular Phylogenetics and Evolution, 2016, 105, 160-165.	2.7	13
28	Using larval barcoding to estimate stomatopod species richness at Lizard Island, Australia for conservation monitoring. Scientific Reports, 2020, 10, 10990.	3.3	11
29	Instructional Models for Course-Based Research Experience (CRE) Teaching. CBE Life Sciences Education, 2022, 21, ar8.	2.3	7
30	Sequence, Structure, and Expression of Opsins in the Monochromatic Stomatopod Squilla empusa. Integrative and Comparative Biology, 2018, 58, 386-397.	2.0	6
31	Ultraviolet vision in larval Neogonodactylus oerstedii. Journal of Experimental Biology, 2022, , .	1.7	6
32	The Leopard Mantis Shrimp, Ankersquilla pardus, a new genus and species of eurysquillid from Indo-West Pacific coral reefs. Records of the Australian Museum, 2020, 72, 1-8.	0.2	3
33	Collecting and processing mysids, stygiomysids, and lophogastrids. Journal of Crustacean Biology, 2016, 36, 592-595.	0.8	2
34	Visual system characterization of the obligate bat ectoparasite Trichobius frequens (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	1.4	2
35	Complete mitochondrial genomes and phylogenetic analysis of the Hawaiian planthoppers Iolania perkinsi and Oliarus cf. filicicola (Hemiptera: Cixiidae). Mitochondrial DNA Part B: Resources, 2022, 7, 1015-1017.	0.4	1