

Juan Carlos Villarreal Aguilar

List of Publications by Year in descending order

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70
papers

5,811
citations

201674

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110387

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docs citations

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times ranked

5974
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryptic speciation shapes the biogeographic history of a northern distributed moss. <i>Botanical Journal of the Linnean Society</i> , 2023, 201, 114-134.	1.6	2
2	Unveiling the nature of a miniature world: a horizon scan of fundamental questions in bryology. <i>Journal of Bryology</i> , 2022, 44, 1-34.	1.2	12
3	Co-dispersal of symbionts in the lichen <i>Cladonia stellaris</i> inferred from genomic data. <i>Fungal Ecology</i> , 2022, 60, 101165.	1.6	2
4	The hornworts: morphology, evolution and development. <i>New Phytologist</i> , 2021, 229, 735-754.	7.3	72
5	Population genomics of a reindeer lichen species from North American lichen woodlands. <i>American Journal of Botany</i> , 2021, 108, 159-171.	1.7	8
6	<i>Stigonema</i> associated with boreal <i>Stereocaulon</i> possesses the alternative vanadium nitrogenase. <i>Lichenologist</i> , 2021, 53, 215-220.	0.8	6
7	A novel thylakoid-less isolate fills a billion-year gap in the evolution of Cyanobacteria. <i>Current Biology</i> , 2021, 31, 2857-2867.e4.	3.9	30
8	A target enrichment probe set for resolving the flagellate land plant tree of life. <i>Applications in Plant Sciences</i> , 2021, 9, e11406.	2.1	42
9	Organellomic data sets confirm a cryptic consensus on (unrooted) land-plant relationships and provide new insights into bryophyte molecular evolution. <i>American Journal of Botany</i> , 2020, 107, 91-115.	1.7	38
10	Contrasting bacteriome of the hornwort <i>Leiosporoceros dussii</i> in two nearby sites with emphasis on the hornwort-cyanobacterial symbiosis. <i>Symbiosis</i> , 2020, 81, 39-52.	2.3	24
11	Population Genomics and Phylogeography of a Clonal Bryophyte With Spatially Separated Sexes and Extreme Sex Ratios. <i>Frontiers in Plant Science</i> , 2020, 11, 495.	3.6	7
12	<i>Anthoceros</i> genomes illuminate the origin of land plants and the unique biology of hornworts. <i>Nature Plants</i> , 2020, 6, 259-272.	9.3	225
13	Specialized bacteriome uncovered in the coralloid roots of the epiphytic gymnosperm, <i>Zamia pseudoparasitica</i> . <i>Environmental DNA</i> , 2020, 2, 418-428.	5.8	22
14	Genomic Diversity Evaluation of <i>Populus trichocarpa</i> Germplasm for Rare Variant Genetic Association Studies. <i>Frontiers in Genetics</i> , 2020, 10, 1384.	2.3	11
15	Extremely low genetic diversity in the European clade of the model bryophyte <i>Anthoceros agrestis</i> . <i>Plant Systematics and Evolution</i> , 2020, 306, 1.	0.9	1
16	Extremely low genetic diversity of <i>Stigonema</i> associated with <i>Stereocaulon</i> in eastern Canada. <i>Bryologist</i> , 2020, 123, 188.	0.6	12
17	DESCRIPCIÓN MORFOLÓGICA DE DOS POBLACIONES DE <i>Leiosporoceros dussii</i> (STEPHANI) HÅSSEL (LEIOSPOROCEROTACEAE) DE PANAMÁ. <i>TECNOCENCIA (Panamá)</i> , 2020, 23, 61-81.	0.1	0
18	Complete Genomes of Symbiotic Cyanobacteria Clarify the Evolution of Vanadium-Nitrogenase. <i>Genome Biology and Evolution</i> , 2019, 11, 1959-1964.	2.5	45

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19	Chemical Profiling of Volatile Components of the Gametophyte and Sporophyte Stages of the Hornwort <i>Leiosporoceros dussii</i> (Leiosporocerotaceae) From Panama by HS-SPME-GC-MS. <i>Natural Product Communications</i> , 2019, 14, 1934578X1986887.	0.5	3
20	Phylogenetic and morphological infrageneric classification of the genus <i>Dendroceros</i> (Dendrocerotaceae; Anthocerotophyta), with the addition of two new subgenera. <i>Systematics and Biodiversity</i> , 2019, 17, 712-727.	1.2	4
21	One thousand plant transcriptomes and the phylogenomics of green plants. <i>Nature</i> , 2019, 574, 679-685.	27.8	1,162
22	Genome-wide organellar analyses from the hornwort <i>Leiosporoceros dussii</i> show low frequency of RNA editing. <i>PLoS ONE</i> , 2018, 13, e0200491.	2.5	24
23	Morphology supports the setaphyte hypothesis: mosses plus liverworts form a natural group. <i>Bryophyte Diversity and Evolution</i> , 2018, 40, 11.	1.1	31
24	Divergence time analyses suggest a Miocene origin of the narrow Amazonian endemic rheophytic <i>Ceratolejeunea temnantha</i> (Spruce) Reiner-Drehwald (Porellales, Lejeuneaceae). <i>Bryophyte Diversity and Evolution</i> , 2018, 40, 55.	1.1	0
25	Hornworts: An Overlooked Window into Carbon-Concentrating Mechanisms. <i>Trends in Plant Science</i> , 2017, 22, 275-277.	8.8	25
26	Morphology, ultrastructure and phylogenetic affinities of the single-island endemic <i>Anthoceros cristatus</i> Steph. (Ascension Island). <i>Journal of Bryology</i> , 2017, 39, 226-234.	1.2	9
27	Hornwort Stomata: Architecture and Fate Shared with 400-Million-Year-Old Fossil Plants without Leaves. <i>Plant Physiology</i> , 2017, 174, 788-797.	4.8	54
28	Future directions and priorities for Arctic bryophyte research. <i>Arctic Science</i> , 2017, 3, 475-497.	2.3	20
29	World checklist of hornworts and liverworts. <i>PhytoKeys</i> , 2016, 59, 1-828.	1.0	478
30	Divergence times and the evolution of morphological complexity in an early land plant lineage (Marchantiopsida) with a slow molecular rate. <i>New Phytologist</i> , 2016, 209, 1734-1746.	7.3	89
31	The genus <i>Aitchisoniella</i> Kashyap (Marchantiopsida, Cleveaceae) new to China, and its taxonomic placement. <i>Journal of Bryology</i> , 2016, 38, 308-311.	1.2	5
32	Taxonomic changes in Marchantiaceae, Corsiniaceae and Cleveaceae (Marchantiidae). <i>Trends in Plant Science</i> , 2016, 21, 222-224.	0.3	24
33	Two New Records of Sri Lankan Hornworts, <i>Notothylas javanica</i> (Notothyladaceae) and <i>Megaceros flagellaris</i> (Dendrocerotaceae). <i>Cryptogamie, Bryologie</i> , 2016, 37, 435-444.	0.2	4
34	Notes on Early Land Plants Today. 70. Nomenclatural notes in hornworts (Anthocerotophyta). <i>Phytotaxa</i> , 2015, 208, 92.	0.3	9
35	On <i>Monocarpus</i> (Monocarpaceae, Marchantiopsida), an isolated salt-pan complex thalloid liverwort. <i>Australian Systematic Botany</i> , 2015, 28, 137.	0.9	6
36	Taxonomic notes on <i>Phaeoceros himalayensis</i> , with lectotypification of <i>Anthoceros himalayensis</i> . <i>Phytotaxa</i> , 2015, 231, 193.	0.3	1

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37	The origin and evolution of phototropins. <i>Frontiers in Plant Science</i> , 2015, 6, 637.	3.6	68
38	The hornworts: important advancements in early land plant evolution. <i>Journal of Bryology</i> , 2015, 37, 157-170.	1.2	32
39	Spores of relictual bryophytes: Diverse adaptations to life on land. <i>Review of Palaeobotany and Palynology</i> , 2015, 216, 1-17.	1.5	30
40	Phytochrome diversity in green plants and the origin of canonical plant phytochromes. <i>Nature Communications</i> , 2015, 6, 7852.	12.8	139
41	Biogeography and diversification rates in hornworts: The limitations of diversification modeling. <i>Taxon</i> , 2015, 64, 229-238.	0.7	24
42	Morphometric tools for sexing loggerhead shrikes in California. <i>Southwestern Naturalist</i> , 2014, 59, 562-569.	0.1	4
43	Phylogenetic affinities and conservation status of <i>Telaranea murphyae</i> Paton in Britain. <i>Journal of Bryology</i> , 2014, 36, 191-199.	1.2	10
44	Data access for the 1,000 Plants (1KP) project. <i>GigaScience</i> , 2014, 3, 17.	6.4	582
45	A review of molecular-clock calibrations and substitution rates in liverworts, mosses, and hornworts, and a timeframe for a taxonomically cleaned-up genus <i>Nothoceros</i> . <i>Molecular Phylogenetics and Evolution</i> , 2014, 78, 25-35.	2.7	68
46	Extant diversity of bryophytes emerged from successive post-Mesozoic diversification bursts. <i>Nature Communications</i> , 2014, 5, 5134.	12.8	154
47	Phylotranscriptomic analysis of the origin and early diversification of land plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4859-68.	7.1	1,123
48	Horizontal transfer of an adaptive chimeric photoreceptor from bryophytes to ferns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6672-6677.	7.1	146
49	Diffusion Limitation and CO ₂ Concentrating Mechanisms in Bryophytes. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 95-111.	1.0	22
50	Genome size increases in recently diverged hornwort clades. <i>Genome</i> , 2013, 56, 431-435.	2.0	26
51	Fungal symbioses in hornworts: a chequered history. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130207.	2.6	87
52	Correlates of monoicy and dioicy in hornworts, the apparent sister group to vascular plants. <i>BMC Evolutionary Biology</i> , 2013, 13, 239.	3.2	60
53	The plastid genome of the hornwort <i>Nothoceros aenigmaticus</i> (Dendrocerotaceae): Phylogenetic signal in inverted repeat expansion, pseudogenization, and intron gain. <i>American Journal of Botany</i> , 2013, 100, 467-477.	1.7	19
54	Hornwort pyrenoids, carbon-concentrating structures, evolved and were lost at least five times during the last 100 million years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18873-18878.	7.1	103

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55	The Hornworts <i>Dendroceros</i> Nees and <i>Megaceros</i> Campb. in São Tomé e Príncipe (Africa, Gulf of Guinea) with the Description of <i>Dendroceros paiva</i> sp. nov.. <i>Cryptogamie, Bryologie</i> , 2012, 33, 3-21.	0.2	18
56	Chloroplast, mitochondrial, and nuclear microsatellites from the southern Appalachian hornwort, <i>Nothoceros aenigmaticus</i> (Dendrocerotaceae). <i>American Journal of Botany</i> , 2012, 99, e88-e90.	1.7	8
57	Evaluating Methods for Isolating Total RNA and Predicting the Success of Sequencing Phylogenetically Diverse Plant Transcriptomes. <i>PLoS ONE</i> , 2012, 7, e50226.	2.5	172
58	Parallel Evolution of Endospory within Hornworts: <i>Nothoceros renzagliensis</i> (Dendrocerotaceae), sp. nov.. <i>Systematic Botany</i> , 2012, 37, 31-37.	0.5	23
59	Recent origin, active speciation and dispersal for the lichen genus <i>Nephroma</i> (Peltigerales) in Macaronesia. <i>Journal of Biogeography</i> , 2011, 38, 1138-1151.	3.0	44
60	A synthesis of hornwort diversity: Patterns, causes and future work. <i>Phytotaxa</i> , 2010, 9, 150.	0.3	80
61	Phylogenetic delineation of <i>Nothoceros</i> and <i>Megaceros</i> (Dendrocerotaceae). <i>Bryologist</i> , 2010, 113, 106-113.	0.6	24
62	Student Project. <i>Evansia</i> , 2010, 27, 115-115.	0.1	0
63	<i>Phaeomegaceros squamuliger</i> subspecies <i>hassellii</i> (Dendrocerotaceae, Anthocerotophyta), a new taxon from the Southern Hemisphere. <i>Nova Hedwigia</i> , 2010, 91, 349-360.	0.4	11
64	<i>Nothoceros superbus</i> (Dendrocerotaceae), a new hornwort from Costa Rica. <i>Bryologist</i> , 2007, 110, 279-285.	0.6	10
65	Progress and challenges toward developing a phylogeny and classification of the hornworts. <i>Bryologist</i> , 2007, 110, 214-243.	0.6	81
66	Structure and development of <i>Nostoc</i> strands in <i>Leiosporoceros dussii</i> (Anthocerotophyta): a novel symbiosis in land plants. <i>American Journal of Botany</i> , 2006, 93, 693-705.	1.7	54
67	Sporophyte Structure in the Neotropical Hornwort <i>Phaeomegaceros fimbriatus</i> : Implications for Phylogeny, Taxonomy, and Character Evolution. <i>International Journal of Plant Sciences</i> , 2006, 167, 413-427.	1.3	23
68	Generic concepts within hornworts: historical review, contemporary insights and future directions. <i>Australian Systematic Botany</i> , 2005, 18, 7.	0.9	23
69	New insights into morphology, anatomy, and systematics of hornworts. , 0, , 139-172.		20
70	Bacterial community of reindeer lichens differs between northern and southern lichen woodlands. <i>Canadian Journal of Forest Research</i> , 0, , .	1.7	5