Charles F Delwiche

List of Publications by Year
in descending order

96 papers	10,713 citations	47006 47 h-index	43889 91 g-index
101 all docs	101 docs citations	101 times ranked	9727 citing authors

#	Article	IF	Citations
1	A Plastid of Probable Green Algal Origin in Apicomplexan Parasites. Science, 1997, 275, 1485-1489.	12.6	726
2	Phylogeny and Molecular Evolution of the Green Algae. Critical Reviews in Plant Sciences, 2012, 31, 1-46.	5.7	723
3	Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9188-9193.	7.1	622
4	The tiny eukaryote Ostreococcus provides genomic insights into the paradox of plankton speciation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7705-7710.	7.1	563
5	The Closest Living Relatives of Land Plants. Science, 2001, 294, 2351-2353.	12.6	521
6	Pan genome of the phytoplankton Emiliania underpins its global distribution. Nature, 2013, 499, 209-213.	27.8	448
7	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. Cell, 2018, 174, 448-464.e24.	28.9	420
8	Tracing the Thread of Plastid Diversity through the Tapestry of Life. American Naturalist, 1999, 154, S164-S177.	2.1	354
9	Rampant horizontal transfer and duplication of rubisco genes in eubacteria and plastids. Molecular Biology and Evolution, 1996, 13, 873-882.	8.9	293
10	The Evolutionary Origin of a Terrestrial Flora. Current Biology, 2015, 25, R899-R910.	3.9	284
11	Origin of strigolactones in the green lineage. New Phytologist, 2012, 195, 857-871.	7.3	258
12	Broad Phylogenomic Sampling and the Sister Lineage of Land Plants. PLoS ONE, 2012, 7, e29696.	2.5	234
13	Charophyte algae and land plant origins. Trends in Ecology and Evolution, 2004, 19, 661-666.	8.7	233
14	Phylogenetic Analyses Indicate that the 19â€²Hexanoyloxy-fucoxanthin-Containing Dinoflagellates Have Tertiary Plastids of Haptophyte Origin. Molecular Biology and Evolution, 2000, 17, 718-729.	8.9	226
15	Conservation of ethylene as a plant hormone over 450 million years of evolution. Nature Plants, 2015, 1, 14004.	9.3	207
16	Major transitions in dinoflagellate evolution unveiled by phylotranscriptomics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E171-E180.	7.1	201
17	Retention of transcriptionally active cryptophyte nuclei by the ciliate Myrionecta rubra. Nature, 2007, 445, 426-428.	27.8	193
18	Conserved and Diversified Gene Families of Monovalent Cation/H+ Antiporters from Algae to Flowering Plants. Frontiers in Plant Science, 2012, 3, 25.	3.6	192

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19	Multigene Phylogeny of the Green Lineage Reveals the Origin and Diversification of Land Plants. Current Biology, 2010, 20, 2217-2222.	3.9	178
20	Lignin-Like Compounds and Sporopollenin Coleochaete, an Algal Model for Land Plant Ancestry. Science, 1989, 245, 399-401.	12.6	176
21	Phylogenetic Relationships of the "Green Algae" and "Bryophytes". Annals of the Missouri Botanical Garden, 1994, 81, 451.	1.3	176
22	Dinoflagellate Expressed Sequence Tag Data Indicate Massive Transfer of Chloroplast Genes to the Nuclear Genome. Protist, 2004, 155, 65-78.	1.5	154
23	Gene phylogenies and the endosymbiotic origin of plastids. BioSystems, 1992, 28, 75-90.	2.0	137
24	Phylogenetic Analysis of tufA Sequences Indicates a Cyanobacterial Origin of All Plastids. Molecular Phylogenetics and Evolution, 1995, 4, 110-128.	2.7	127
25	Heteroduplex mobility assay-guided sequence discovery: Elucidation of the small subunit (18S) rDNA sequences of Pfiesteria piscicida and related dinoflagellates from complex algal culture and environmental sample DNA pools. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4303-4308.	7.1	127
26	The Phylogeny of Rosoideae (Rosaceae) Based on Sequences of the Internal Transcribed Spacers (ITS) of Nuclear Ribosomal DNA and the trnL/F Region of Chloroplast DNA. International Journal of Plant Sciences, 2003, 164, 197-211.	1.3	126
27	The origin of plastids and their spread via secondary symbiosis. Plant Systematics and Evolution Supplementum = Entwicklungsgeschichte Und Systematik Der Pflanzen Supplementum, 1997, , 53-86.	1.5	123
28	Second-hand chloroplasts and the case of the disappearing nucleus.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7432-7435.	7.1	113
29	Directional Auxin Transport Mechanisms in Early Diverging Land Plants. Current Biology, 2014, 24, 2786-2791.	3.9	113
30	Origin and evolution of PIN auxin transporters in the green lineage. Trends in Plant Science, 2013, 18, 5-10.	8.8	109
31	Spatially heterogeneous impact of climate change on small mammals of montane California. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141857.	2.6	103
32	A HYPOTHESIS FOR PLASTID EVOLUTION IN CHROMALVEOLATES¹. Journal of Phycology, 2008, 44, 1097-1107.	2.3	99
33	Uncovering the evolutionary origin of plant molecular processes: comparison of Coleochaete (Coleochaetales) and Spirogyra (Zygnematales) transcriptomes. BMC Plant Biology, 2010, 10, 96.	3.6	91
34	Plastid Genes in a Non-Photosynthetic Dinoflagellate. Protist, 2007, 158, 105-117.	1.5	90
35	Chlorophyll câ€“Containing Plastid Relationships Based on Analyses of a Multigene Data Set with All Four Chromalveolate Lineages. Molecular Biology and Evolution, 2005, 22, 1772-1782.	8.9	86
36	The Complete Plastid Genome Sequence of the Haptophyte Emiliania huxleyi: a Comparison to Other Plastid Genomes. DNA Research, 2005, 12, 151-156.	3.4	86

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37	Neoproterozoic origin and multiple transitions to macroscopic growth in green seaweeds. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2551-2559.	7.1	85
38	PHYLOGENY OF THE CONJUGATING GREEN ALGAE BASED ON CHLOROPLAST AND MITOCHONDRIAL NUCLEOTIDE SEQUENCE DATA¹. Journal of Phycology, 2008, 44, 467-477.	2.3	80
39	Dinoflagellate phylogeny revisited: Using ribosomal proteins to resolve deep branching dinoflagellate clades. Molecular Phylogenetics and Evolution, 2014, 70, 314-322.	2.7	70
40	Ultrastructure of Amoebophrya sp. and its Changes during the Course of Infection. Protist, 2012, 163, 720-745.	1.5	64
41	The Biochemistry of Isoprene Emission from Leaves during Photosynthesis. , 1991, , 153-184.		63
42	PHYLOGENY OF THE GENUS COLEOCHAETE (COLEOCHAETALES, CHAROPHYTA) AND RELATED TAXA INFERRED BY ANALYSIS OF THE CHLOROPLAST GENE rbcL 1. Journal of Phycology, 2002, 38, 394-403.	2.3	60
43	Highly Divergent SSU rRNA Genes Found in the Marine Ciliates Myrionecta rubra and Mesodinium pulex. Protist, 2004, 155, 347-359.	1.5	60
44	Novel Exchangeable Effector Loci Associated with the Pseudomonas syringae hrp Pathogenicity Island: Evidence for Integron-Like Assembly from Transposed Gene Cassettes. Molecular Plant-Microbe Interactions, 2003, 16, 495-507.	2.6	58
45	Molecular phylogeny of ocelloid-bearing dinoflagellates (Warnowiaceae) as inferred from SSU and LSU rDNA sequences. BMC Evolutionary Biology, 2009, 9, 116.	3.2	54
46	The Complete Mitochondrial Genome Sequence of the Haptophyte Emiliania huxleyi and its Relation to Heterokonts. DNA Research, 2004, 11, 1-10.	3.4	53
47	Transcriptome Profiling of the Green Alga Spirogyra pratensis (Charophyta) Suggests an Ancestral Role for Ethylene in Cell Wall Metabolism, Photosynthesis, and Abiotic Stress Responses. Plant Physiology, 2016, 172, 533-545.	4.8	52
48	Heterotachy Processes in Rhodophyte-Derived Secondhand Plastid Genes: Implications for Addressing the Origin and Evolution of Dinoflagellate Plastids. Molecular Biology and Evolution, 2006, 23, 1504-1515.	8.9	50
49	Alveolate Phylogeny Inferred using Concatenated Ribosomal Proteins. Journal of Eukaryotic Microbiology, 2011, 58, 223-233.	1.7	49
50	The Origin and Evolution of Plastids and Their Genomes. , 1998, , 375-409.		48
51	Reconstructing trait evolution in plant evoâ€“devo studies. Current Biology, 2019, 29, R1110-R1118.	3.9	47
52	Metatranscriptome profiling of a harmful algal bloom. Harmful Algae, 2014, 37, 75-83.	4.8	45
53	Fractionation of Carbon Isotopes during Biogenesis of Atmospheric Isoprene. Plant Physiology, 1991, 97, 463-466.	4.8	44
54	Evolution of light-harvesting complex proteins from Chl c-containing algae. BMC Evolutionary Biology, 2011, 11, 101.	3.2	44

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55	Microbial Diversity in the Eukaryotic SAR Clade: Illuminating the Darkness Between Morphology and Molecular Data. BioEssays, 2018, 40, e1700198.	2.5	43
56	Sorting wheat from chaff in multi-gene analyses of chlorophyll c-containing plastids. Molecular Phylogenetics and Evolution, 2007, 44, 885-897.	2.7	41
57	Molecular Systematics of the Green Algae. , 1998, , 508-540.		41
58	Molecular Diversity of the Syndinean Genus Euduboscquella Based on Single-Cell PCR Analysis. Applied and Environmental Microbiology, 2012, 78, 334-345.	3.1	40
59	Genetic Analysis of DEFECTIVE KERNEL1 Loop Function in Three-Dimensional Body Patterning in Physcomitrella patens Â Â Â Â. Plant Physiology, 2014, 166, 903-919.	4.8	40
60	Revision of the Family <scp>D</scp>uboscquellidae with Description of <scp>E</scp>uduboscquella crenulata n. gen., n. sp. (<scp>D</scp>inoflagellata,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (Kofoid & Campbell,. Journal of Eukaryotic Microbiology, 2012, 59, 1-11.	1.7	36
61	Tintinnophagus acutus n. g., n. sp. (Phylum Dinoflagellata), an Ectoparasite of the Ciliate Tintinnopsis cylindrica Daday 1887, and Its Relationship to Duboscquodinium collini GrassÃ© 1952. Journal of Eukaryotic Microbiology, 2010, 57, 468-482.	1.7	34
62	PHYLOGENY OF FOUR DINOPHYSIACEAN GENERA (DINOPHYCEAE, DINOPHYSIALES) BASED ON rDNA SEQUENCES FROM SINGLE CELLS AND ENVIRONMENTAL SAMPLES¹. Journal of Phycology, 2009, 45, 1163-1174.	2.3	33
63	Dynamics of Actin Evolution in Dinoflagellates. Molecular Biology and Evolution, 2011, 28, 1469-1480.	8.9	28
64	PHYLOGENY OF SPIROGYRA AND SIROGONIUM (ZYGNEMATOPHYCEAE) BASED ON RBCL SEQUENCE DATA1. Journal of Phycology, 2005, 41, 1055-1064.	2.3	26
65	Evolutionary relatedness does not predict competition and co-occurrence in natural or experimental communities of green algae. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141745.	2.6	26
66	Ecological interactions and coexistence are predicted by gene expression similarity in freshwater green algae. Journal of Ecology, 2017, 105, 580-591.	4.0	25
67	Empowering 21st Century Biology. BioScience, 2010, 60, 923-930.	4.9	24
68	New phylogenetic hypotheses for the core Chlorophyta based on chloroplast sequence data. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	23
69	Patterns of cell division in the filamentous Desmidiaceae, close green algal relatives of land plants. American Journal of Botany, 2008, 95, 643-654.	1.7	21
70	MOLECULAR AND MORPHOLOGICAL DATA IDENTIFY A CRYPTIC SPECIES COMPLEX IN ENDOPHYTIC MEMBERS OF THE GENUSCOLEOCHAETEBRÃ‰B. (CHAROPHYTA: COLEOCHAETACEAE)1. Journal of Phycology, 2002, 38, 1213-1221.	2.3	20
71	The Origin and Evolution of Dinoflagellates. , 2007, , 191-205.		19
72	Rate Variation as a Function of Gene Origin in Plastid-Derived Genes of Peridinin-Containing Dinoflagellates. Journal of Molecular Evolution, 2006, 62, 42-52.	1.8	18

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73	Evaluation of BLAST-based edge-weighting metrics used for homology inference with the Markov Clustering algorithm. BMC Bioinformatics, 2015, 16, 218.	2.6	18
74	Dinoflagellate Gene Structure and Intron Splice Sites in a Genomic Tandem Array. Journal of Eukaryotic Microbiology, 2015, 62, 679-687.	1.7	18
75	Complex Ancestries of Isoprenoid Synthesis in Dinoflagellates. Journal of Eukaryotic Microbiology, 2016, 63, 123-137.	1.7	17
76	The Complete Mitochondrial Genome Sequence of the Haptophyte Emiliania huxleyi and its Relation to Heterokonts (Supplement). DNA Research, 2004, 11, 67-68.	3.4	15
77	Plants. Current Biology, 2011, 21, R417-R422.	3.9	15
78	Land Plant Model Systems Branch Out. Cell, 2017, 171, 265-266.	28.9	13
79	Response from Roos and Delwiche. Trends in Microbiology, 1998, 6, 345-346.	7.7	12
80	A genetic element in the SARS-CoV-2 genome is shared with multiple insect species. Journal of General Virology, 2021, 102, .	2.9	12
81	Evolution of Photorespiratory Glycolate Oxidase among Archaeplastida. Plants, 2020, 9, 106.	3.5	9
82	Phylogenomic analysis of Emiliania huxleyi provides evidence for haptophyteâ€“stramenopile association and a chimeric haptophyte nuclear genome. Marine Genomics, 2015, 21, 31-42.	1.1	8
83	New Efficient Algorithm for Modeling Partial and Complete Gene Transfer Scenarios. , 2006, , 341-349.		8
84	In the shadow of giants. Systematics Association Special Volume, 2007, , 155-169.	0.2	8
85	Using RDNA sequences to define dinoflagellate species. PLoS ONE, 2022, 17, e0264143.	2.5	8
86	The Genomic Palimpsest: Genomics in Evolution and Ecology. BioScience, 2004, 54, 991.	4.9	7
87	The role of ionâ€transporting proteins in the evolution of salt tolerance in charophyte algae. Journal of Phycology, 2021, 57, 1014-1025.	2.3	7
88	Salinityâ€induced Changes in Gene Expression in the Streptophyte Alga Chara: The Critical Role of a Rare Na⁺â€ATPase. Journal of Phycology, 2021, 57, 1004-1013.	2.3	6
89	Phylogenetic Perspective on Microbial Life in Hydrothermal Ecosystems, Past and Present. Novartis Foundation Symposium, 1996, 202, 24-39.	1.1	6
90	An Evolutionary Perspective on the Plant Hormone Ethylene. , 2015, , 109-134.		4

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91	An artifact in the small subunit rdna sequence of Chaetosphaeridium globosum (Charophyceae,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	3
92	(1569-1570) Proposals to conserve the name Coleochaete soluta against C. prostrata and the name C. orbicularis against Phyllactidium pulchellum with a note on the name C. nitellarum (Coleochaetaceae) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	2
93	Microbial biodiversity: A newly isolated cyanobacterium sheds light on the evolution ofÂphotosynthesis. Current Biology, 2021, 31, R843-R845.	3.9	3
94	Griffins and Chimeras: Evolution and Horizontal Gene Transfer. BioScience, 2000, 50, 85.	4.9	1
95	Evaluating short-read sequence data from the highly redundant, novel transcriptome of Polarella glacialis. Genome Biology, 2011, 12, .	9.6	0
96	A Nutshell Guide to the Changing Biological Sciences. BioScience, 2016, 66, 253-254.	4.9	0