

Allan D Cembella

List of Publications by Year in descending order

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83
papers

6,697
citations

57758

44
h-index

60623

81
g-index

85
all docs

85
docs citations

85
times ranked

4287
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in Understanding Harmful Algal Blooms: Paradigm Shifts and New Technologies for Research, Monitoring, and Management. Annual Review of Marine Science, 2012, 4, 143-176.	11.6	808
2	The globally distributed genus <i>Alexandrium</i> : Multifaceted roles in marine ecosystems and impacts on human health. Harmful Algae, 2012, 14, 10-35.	4.8	577
3	The Utilization of Inorganic and Organic Phosphorous Compounds as Nutrients by Eukaryotic Microalgae: A Multidisciplinary Perspective: Part I. CRC Critical Reviews in Microbiology, 1982, 10, 317-391.	4.8	421
4	<i>Azadinium spinosum</i> gen. et sp. nov. (Dinophyceae) identified as a primary producer of azaspiracid toxins. European Journal of Phycology, 2009, 44, 63-79.	2.0	250
5	Chemical ecology of eukaryotic microalgae in marine ecosystems. Phycologia, 2003, 42, 420-447.	1.4	236
6	Variation in paralytic shellfish toxin composition within the <i>Protogonyaulax tamarensis</i> / <i>catenella</i> species complex; red tide dinoflagellates. Biochemical Systematics and Ecology, 1987, 15, 171-186.	1.3	180
7	Characterization of Spirolides A, C, and 13-Desmethyl C, New Marine Toxins Isolated from Toxic Plankton and Contaminated Shellfish. Journal of Natural Products, 2001, 64, 308-312.	3.0	174
8	The Smallest Known Genomes of Multicellular and Toxic Cyanobacteria: Comparison, Minimal Gene Sets for Linked Traits and the Evolutionary Implications. PLoS ONE, 2010, 5, e9235.	2.5	168
9	The Utilization of Inorganic and Organic Phosphorous Compounds as Nutrients by Eukaryotic Microalgae: A Multidisciplinary Perspective: Part 2. CRC Critical Reviews in Microbiology, 1984, 11, 13-81.	4.8	163
10	Grazing of toxic dinoflagellates, <i>Alexandrium</i> spp., by adult copepods of coastal Maine: Implications for the fate of paralytic shellfish toxins in marine food webs. Journal of Experimental Marine Biology and Ecology, 1996, 196, 145-176.	1.5	131
11	THE MARINE DINOFLAGELLATE <i>ALEXANDRIUM OSTENFELDII</i> : PARALYTIC SHELLFISH TOXIN CONCENTRATION, COMPOSITION, AND TOXICITY TO A TINTINNID CILIATE. Journal of Phycology, 1992, 28, 597-603.	2.3	129
12	Characterization of azaspiracids in plankton size-fractions and isolation of an azaspiracid-producing dinoflagellate from the North Sea. Harmful Algae, 2009, 8, 254-263.	4.8	127
13	Harmful algal blooms and their effects in coastal seas of Northern Europe. Harmful Algae, 2021, 102, 101989.	4.8	127
14	Discrimination of the toxigenic dinoflagellates <i>Alexandrium tamarense</i> and <i>A. ostenfeldii</i> in co-occurring natural populations from Scottish coastal waters. European Journal of Phycology, 2003, 38, 25-40.	2.0	121
15	Allelochemical interactions and short-term effects of the dinoflagellate <i>Alexandrium</i> on selected photoautotrophic and heterotrophic protists. Harmful Algae, 2008, 7, 52-64.	4.8	119
16	On the allelochemical potency of the marine dinoflagellate <i>Alexandrium ostenfeldii</i> against heterotrophic and autotrophic protists. Journal of Plankton Research, 2007, 29, 527-543.	1.8	118
17	The Relevance of Marine Chemical Ecology to Plankton and Ecosystem Function: An Emerging Field. Marine Drugs, 2011, 9, 1625-1648.	4.6	106
18	PHENOTYPIC VARIATION AND GENOTYPIC DIVERSITY IN A PLANKTONIC POPULATION OF THE TOXIGENIC MARINE DINOFLAGELLATE <i>ALEXANDRIUM TAMARENSE</i> (DINOPHYCEAE). Journal of Phycology, 2010, 46, 18-32.	2.3	102

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19	LC-MS-MS aboard ship: tandem mass spectrometry in the search for phycotoxins and novel toxigenic plankton from the North Sea. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 797-803.	3.7	99
20	Intra-population clonal variability in allelochemical potency of the toxigenic dinoflagellate <i>Alexandrium tamarense</i> . <i>Harmful Algae</i> , 2009, 8, 759-769.	4.8	99
21	Toxin profile of <i>Alexandrium catenella</i> from the Chilean coast as determined by liquid chromatography with fluorescence detection and liquid chromatography coupled with tandem mass spectrometry. <i>Harmful Algae</i> , 2007, 6, 734-744.	4.8	96
22	Comparative Genomic and Transcriptomic Characterization of the Toxigenic Marine Dinoflagellate <i>Alexandrium ostenfeldii</i> . <i>PLoS ONE</i> , 2011, 6, e28012.	2.5	92
23	Sequestering and putative biotransformation of paralytic shellfish toxins by the sea scallop <i>Placopecten magellanicus</i> : seasonal and spatial scales in natural populations. <i>Journal of Experimental Marine Biology and Ecology</i> , 1994, 180, 1-22.	1.5	91
24	Spirolides Isolated from Danish Strains of the Toxigenic Dinoflagellate <i>Alexandrium ostenfeldii</i> . <i>Journal of Natural Products</i> , 2006, 69, 983-987.	3.0	90
25	Distribution and toxicity of <i>Alexandrium ostenfeldii</i> (Dinophyceae) in the Gulf of Maine, USA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2745-2763.	1.4	84
26	Comparative gene expression in toxic versus non-toxic strains of the marine dinoflagellate <i>Alexandrium minutum</i> . <i>BMC Genomics</i> , 2010, 11, 248.	2.8	73
27	Preliminary Characterization of Extracellular Allelochemicals of the Toxic Marine Dinoflagellate <i>Alexandrium tamarense</i> Using a <i>Rhodomonas salina</i> Bioassay. <i>Marine Drugs</i> , 2009, 7, 497-522.	4.6	70
28	The impact of toxic algae on scallop culture and fisheries. <i>Reviews in Fisheries Science</i> , 1993, 1, 121-150.	2.1	67
29	Implications of life-history transitions on the population genetic structure of the toxigenic marine dinoflagellate <i>Alexandrium tamarense</i> . <i>Molecular Ecology</i> , 2009, 18, 2122-2133.	3.9	66
30	<i>Azadinium obesum</i> (Dinophyceae), a new nontoxic species in the genus that can produce azaspiracid toxins. <i>Phycologia</i> , 2010, 49, 169-182.	1.4	65
31	North Atlantic right whales, <i>Eubalaena glacialis</i> , exposed to paralytic shellfish poisoning (PSP) toxins via a zooplankton vector, <i>Calanus finmarchicus</i> . <i>Harmful Algae</i> , 2002, 1, 243-251.	4.8	63
32	Swimming speed of three species of <i>Alexandrium</i> (Dinophyceae) as determined by digital in-line holography. <i>Phycologia</i> , 2006, 45, 61-70.	1.4	63
33	Novel Insights into Evolution of Protistan Polyketide Synthases through Phylogenomic Analysis. <i>Protist</i> , 2008, 159, 21-30.	1.5	63
34	Guanidinium Toxins and Their Interactions with Voltage-Gated Sodium Ion Channels. <i>Marine Drugs</i> , 2017, 15, 303.	4.6	59
35	Ocean urea fertilization for carbon credits poses high ecological risks. <i>Marine Pollution Bulletin</i> , 2008, 56, 1049-1056.	5.0	58
36	In vitro transformation of paralytic shellfish toxins in the clams <i>Mya arenaria</i> and <i>Protothaca staminea</i> . <i>Harmful Algae</i> , 2006, 5, 79-90.	4.8	57

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37	Reassessment of the toxin profile of <i>Cylindrospermopsis raciborskii</i> T3 and function of putative sulfotransferases in synthesis of sulfated and sulfonated PSP toxins. <i>Toxicon</i> , 2010, 56, 1350-1361.	1.6	56
38	Biosynthesis of 13-Desmethyl Spirolide C by the Dinoflagellate <i>Alexandrium mostenfeldii</i> . <i>Journal of Organic Chemistry</i> , 2006, 71, 8724-8731.	3.2	55
39	Intercalibration of classical and molecular techniques for identification of <i>Alexandrium fundyense</i> (Dinophyceae) and estimation of cell densities. <i>Harmful Algae</i> , 2007, 6, 56-72.	4.8	54
40	SINGAPORE ISOLATES OF THE DINOFLAGELLATE <i>GYMNODINIUM CATENATUM</i> (DINOPHYCEAE) PRODUCE A UNIQUE PROFILE OF PARALYTIC SHELLFISH POISONING TOXINS1. <i>Journal of Phycology</i> , 2002, 38, 96-106.	2.3	52
41	CYST FORMATION IN THE RED TIDE DINOFLAGELLATE <i>ALEXANDRIUM TAMARENSE</i> (DINOPHYCEAE): EFFECTS OF IRON STRESS1. <i>Journal of Phycology</i> , 1989, 25, 721-731.	2.3	50
42	Diversity and regional distribution of harmful algal events along the Atlantic margin of Europe. <i>Harmful Algae</i> , 2021, 102, 101976.	4.8	50
43	Electrophoretic variability within the <i>Protogonyaulax tamarensis/catenella</i> species complex: Pyridine linked dehydrogenases. <i>Biochemical Systematics and Ecology</i> , 1986, 14, 311-323.	1.3	49
44	Growth- and nutrient-dependent gene expression in the toxigenic marine dinoflagellate <i>Alexandrium minutum</i> . <i>Harmful Algae</i> , 2011, 12, 55-69.	4.8	49
45	Rapid detection of cyanobacterial toxins in precursor ion mode by liquid chromatography tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1238-1250.	1.6	48
46	PSP toxin release from the cyanobacterium <i>Raphidiopsis brookii</i> D9 (Nostocales) can be induced by sodium and potassium ions. <i>Toxicon</i> , 2012, 60, 1324-1334.	1.6	45
47	Molecular discrimination of toxic and non-toxic <i>Alexandrium</i> species (Dinophyta) in natural phytoplankton assemblages from the Scottish coast of the North Sea. <i>European Journal of Phycology</i> , 2013, 48, 12-26.	2.0	42
48	Mode of action of membrane-disruptive lytic compounds from the marine dinoflagellate <i>Alexandrium tamarense</i> . <i>Toxicon</i> , 2011, 58, 247-258.	1.6	41
49	Molecular discrimination of taxa within the dinoflagellate genus <i>Azadinium</i> , the source of azaspiracid toxins. <i>Journal of Plankton Research</i> , 2013, 35, 225-230.	1.8	40
50	Impact of Nitrogen Sources on Gene Expression and Toxin Production in the Diazotroph <i>Cylindrospermopsis raciborskii</i> CS-505 and Non-Diazotroph <i>Raphidiopsis brookii</i> D9. <i>Toxins</i> , 2014, 6, 1896-1915.	3.4	40
51	Transcriptomic characterisation and genomic glimps into the toxigenic dinoflagellate <i>Azadinium spinosum</i> , with emphasis on polyketide synthase genes. <i>BMC Genomics</i> , 2015, 16, 27.	2.8	40
52	Accumulation of paralytic shellfish toxins by surfclams, <i>Spisula solidissima</i> (Dillwyn, 1897) in the gulf of maine: Seasonal changes, distribution between tissues, and notes on feeding habits. <i>Natural Toxins</i> , 1994, 2, 236-251.	1.0	35
53	Isolation of activity and partial characterization of large non-proteinaceous lytic allelochemicals produced by the marine dinoflagellate <i>Alexandrium tamarense</i> . <i>Harmful Algae</i> , 2011, 11, 65-72.	4.8	35
54	Distribution of <i>Dinophysis</i> species and their association with lipophilic phycotoxins in plankton from the Argentine Sea. <i>Harmful Algae</i> , 2016, 59, 31-41.	4.8	34

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55	A Review on the Biodiversity and Biogeography of Toxigenic Benthic Marine Dinoflagellates of the Coasts of Latin America. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	33
56	Harmful Algal Blooms and Their Assessment in Fjords and Coastal Embayments. <i>Oceanography</i> , 2005, 18, 158-171.	1.0	33
57	Molecular diversity patterns among various phytoplankton size-fractions in West Greenland in late summer. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 121, 54-69.	1.4	30
58	Species occurrence of the potentially toxigenic diatom genus <i>Pseudo-nitzschia</i> and the associated neurotoxin domoic acid in the Argentine Sea. <i>Harmful Algae</i> , 2017, 63, 45-55.	4.8	29
59	Morphological, molecular, and toxin analysis of field populations of <i>Alexandrium</i> genus from the Argentine Sea. <i>Journal of Phycology</i> , 2017, 53, 1206-1222.	2.3	28
60	Molecular phylogeny and toxin profiles of <i>Alexandrium tamarense</i> (Lebour) Balech (Dinophyceae) from the west coast of Greenland. <i>Harmful Algae</i> , 2012, 19, 108-116.	4.8	26
61	Zooplankton grazing impacts on <i>Alexandrium</i> spp. in the nearshore environment of the Gulf of Maine. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2817-2833.	1.4	25
62	Toxigenic algae and associated phycotoxins in two coastal embayments in the Ebro Delta (NW Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	4.8	23
63	Toxigenic phytoplankton and concomitant toxicity in the mussel <i>Choromytilus meridionalis</i> off the west coast of South Africa. <i>Harmful Algae</i> , 2012, 20, 30-41.	4.8	22
64	Genomic characterisation of the ichthyotoxic prymnesiophyte <i>Chrysochromulina polylepis</i> and the expression of polyketide synthase genes in synchronized cultures. <i>European Journal of Phycology</i> , 2010, 45, 215-229.	2.0	21
65	Bioactive compounds of marine dinoflagellate isolates from western Greenland and their phylogenetic association within the genus <i>Alexandrium</i> . <i>Harmful Algae</i> , 2016, 51, 67-80.	4.8	21
66	LC-MS/MS Detection of Karlotoxins Reveals New Variants in Strains of the Marine Dinoflagellate <i>Karlodinium veneficum</i> from the Ebro Delta (NW Mediterranean). <i>Marine Drugs</i> , 2017, 15, 391.	4.6	20
67	Docking Simulation of the Binding Interactions of Saxitoxin Analogs Produced by the Marine Dinoflagellate <i>Gymnodinium catenatum</i> to the Voltage-Gated Sodium Channel Nav1.4. <i>Toxins</i> , 2016, 8, 129.	3.4	19
68	Cyanotoxins are not implicated in the etiology of coral black band disease outbreaks on Pelorus Island, Great Barrier Reef. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	2.7	16
69	Effects of salinity variation on growth and yessotoxin composition in the marine dinoflagellate <i>Lingulodinium polyedra</i> from a Skagerrak fjord system (western Sweden). <i>Harmful Algae</i> , 2018, 78, 9-17.	4.8	16
70	Spatial and biological oceanographic insights into the massive fish-killing bloom of the haptophyte <i>Chrysochromulina leadbeateri</i> in northern Norway. <i>Harmful Algae</i> , 2022, 118, 102287.	4.8	16
71	Trait changes induced by species interactions in two phenotypically distinct strains of a marine dinoflagellate. <i>ISME Journal</i> , 2016, 10, 2658-2668.	9.8	15
72	Distribution of <i>Alexandrium fundyense</i> (Dinophyceae) cysts in Greenland and Iceland, with an emphasis on viability and growth in the Arctic. <i>Marine Ecology - Progress Series</i> , 2016, 547, 33-46.	1.9	14

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73	Phycotoxin composition and distribution in plankton fractions from the German Bight and western Danish coast. <i>Journal of Plankton Research</i> , 2013, 35, 1093-1108.	1.8	13
74	Associated Bacteria and Their Effects on Growth and Toxicity of the Dinoflagellate <i>Prorocentrum lima</i> Species Complex From Epibenthic Substrates Along Mexican Coasts. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	13
75	Paralytic toxin profile of the marine dinoflagellate <i>Gymnodinium catenatum</i> Graham from the Mexican Pacific as revealed by LC-MS/MS. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2015, 32, 1-14.	2.3	12
76	Association of the Toxicogenic Dinoflagellate <i>Alexandrium ostenfeldii</i> With Spirolide Accumulation in Cultured Mussels (<i>Mytilus galloprovincialis</i>) From Northwest Mexico. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	6
77	Key Questions and Recent Research Advances on Harmful Algal Blooms in Fjords and Coastal Embayments. <i>Ecological Studies</i> , 2018, , 187-203.	1.2	5
78	Toxicity Bioassay and Cytotoxic Effects of the Benthic Marine Dinoflagellate <i>Amphidinium operculatum</i> . <i>Journal of Xenobiotics</i> , 2021, 11, 33-45.	6.7	4
79	Phylogeography and Diversity Among Populations of the Toxicogenic Benthic Dinoflagellate <i>Prorocentrum</i> From Coastal Reef Systems in Mexico. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
80	Marine guanidinium neurotoxins: Biogenic origins and interactions, biosynthesis and pharmacology. <i>Advances in Neurotoxicology</i> , 2021, 6, 1-47.	1.9	3
81	Diversity of Bacterioplankton and Bacteriobenthos from the Veracruz Reef System, Southwestern Gulf of Mexico. <i>Microorganisms</i> , 2021, 9, 619.	3.6	2
82	Biodiversity of Harmful Marine Algae. , 2013, , 470-484.		0
83	Harmful Algal Species Fact Sheets. , 0, , 561-638.		0