Shauna A Murray

List of Publications by Year
in descending order

111 papers	5,173 citations	101496 36 h-index	102432 66 g-index
119 all docs	119 docs citations	119 times ranked	4678 citing authors

#	Article	IF	Citations
1	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.	2.6	885
2	A modified ecological footprint method and its application to Australia. Ecological Economics, 2001, 37, 229-255.	2.9	347
3	Formal Revision of the Alexandrium tamarense Species Complex (Dinophyceae) Taxonomy: The Introduction of Five Species with Emphasis on Molecular-based (rDNA) Classification. Protist, 2014, 165, 779-804.	0.6	283
4	Discovery of Nuclear-Encoded Genes for the Neurotoxin Saxitoxin in Dinoflagellates. PLoS ONE, 2011, 6, e20096.	1.1	172
5	Taxonomy and phylogeny of the benthic Prorocentrum species (Dinophyceae)â€"A proposal and review. Harmful Algae, 2013, 27, 1-28.	2.2	128
6	Environmental impact assessment including indirect effectsâ€"a case study using inputâ€"output analysis. Environmental Impact Assessment Review, 2003, 23, 263-282.	4.4	117
7	sxtA -Based Quantitative Molecular Assay To Identify Saxitoxin-Producing Harmful Algal Blooms in Marine Waters. Applied and Environmental Microbiology, 2011, 77, 7050-7057.	1.4	104
8	Extraordinary Conservation, Gene Loss, and Positive Selection in the Evolution of an Ancient Neurotoxin. Molecular Biology and Evolution, 2011, 28, 1173-1182.	3.5	103
9	AMPHIDINIUM REVISITED. I. REDEFINITION OF AMPHIDINIUM (DINOPHYCEAE) BASED ON CLADISTIC AND MOLECULAR PHYLOGENETIC ANALYSES1. Journal of Phycology, 2004, 40, 351-365.	1.0	97
10	When Naked Became Armored: An Eight-Gene Phylogeny Reveals Monophyletic Origin of Theca in Dinoflagellates. PLoS ONE, 2012, 7, e50004.	1.1	86
11	Improving the Analysis of Dinoflagellate Phylogeny based on rDNA. Protist, 2005, 156, 269-286.	0.6	85
12	Evolutionary distinctiveness of fatty acid and polyketide synthesis in eukaryotes. ISME Journal, 2016, 10, 1877-1890.	4.4	72
13	AMPHIDINIUM REVISITED. II. RESOLVING SPECIES BOUNDARIES IN THE AMPHIDINIUM OPERCULATUM SPECIES COMPLEX (DINOPHYCEAE), INCLUDING THE DESCRIPTIONS OF AMPHIDINIUM TRULLA SP. NOV. AND AMPHIDINIUM GIBBOSUM. COMB. NOV.1. Journal of Phycology, 2004, 40, 366-382.	1.0	71
14	Evolutionary Acquisition and Loss of Saxitoxin Biosynthesis in Dinoflagellates: the Second â€œCoreâ€• Gene, sxtG. Applied and Environmental Microbiology, 2013, 79, 2128-2136.	1.4	70
15	Genetic Diversity, Morphological Uniformity and Polyketide Production in Dinoflagellates (Amphidinium, Dinoflagellata). PLoS ONE, 2012, 7, e38253.	1.1	68
16	Biosynthesis of toxic naturally-occurring seafood contaminants. Toxicon, 2010, 56, 244-258.	0.8	63
17	SPECIES BOUNDARIES IN THE TOXIC DINOFLAGELLATE PROROCENTRUM LIMA (DINOPHYCEAE,) Tj ETQq1 1 0.784314 rgBT /Ov of Phycology, 2011, 47, 178-189.	1.0	62
18	High abundance of the potentially maitotoxic dinoflagellate Gambierdiscus carpenteri in temperate waters of New South Wales, Australia. Harmful Algae, 2014, 39, 134-145.	2.2	60

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19	A new Gambierdiscus species (Dinophyceae) from Rarotonga, Cook Islands: Gambierdiscus cheloniae sp. nov. Harmful Algae, 2016, 60, 45-56.	2.2	60
20	Assessment of the metabarcoding approach for community analysis of benthic-epiphytic dinoflagellates using mock communities. New Zealand Journal of Marine and Freshwater Research, 2017, 51, 555-576.	0.8	59
21	Ocean urea fertilization for carbon credits poses high ecological risks. Marine Pollution Bulletin, 2008, 56, 1049-1056.	2.3	58
22	Evolution and Distribution of Saxitoxin Biosynthesis in Dinoflagellates. Marine Drugs, 2013, 11, 2814-2828.	2.2	58
23	Polyketide synthesis genes associated with toxin production in two species of Gambierdiscus (Dinophyceae). BMC Genomics, 2015, 16, 410.	1.2	56
24	A new species of Gambierdiscus (Dinophyceae) from the south-west Pacific: Gambierdiscus honu sp. nov.. Harmful Algae, 2017, 65, 61-70.	2.2	56
25	Characterization of Gambierdiscus lapillus sp. nov. (Gonyaulacales, Dinophyceae): a new toxic dinoflagellate from the Great Barrier Reef (Australia). Journal of Phycology, 2017, 53, 283-297.	1.0	56
26	Are Prorocentroid Dinoflagellates Monophyletic? A Study of 25 Species Based on Nuclear and Mitochondrial Genes. Protist, 2009, 160, 245-264.	0.6	53
27	The benthic dinoflagellate genus Amphidinium in south-eastern Australian waters, including three new species. European Journal of Phycology, 2002, 37, 279-298.	0.9	52
28	Gene duplication, loss and selection in the evolution of saxitoxin biosynthesis in alveolates. Molecular Phylogenetics and Evolution, 2015, 92, 165-180.	1.2	48
29	The Genetic Basis of Toxin Biosynthesis in Dinoflagellates. Microorganisms, 2019, 7, 222.	1.6	47
30	Recent Trends in Marine Phycotoxins from Australian Coastal Waters. Marine Drugs, 2017, 15, 33.	2.2	45
31	Toxicology of Gambierdiscus spp. (Dinophyceae) from Tropical and Temperate Australian Waters. Marine Drugs, 2018, 16, 7.	2.2	44
32	A feeding study to probe the uptake of Maitotoxin by snapper (Pagrus auratus). Harmful Algae, 2014, 37, 125-132.	2.2	43
33	The Taxonomic Significance of Species That Have Only Been Observed Once: The Genus Gymnodinium (Dinoflagellata) as an Example. PLoS ONE, 2012, 7, e44015.	1.1	43
34	Unravelling the functional genetics of dinoflagellates: a review of approaches and opportunities. Perspectives in Phycology, 2016, 3, 37-52.	1.9	42
35	Molecular and phylogenetic characterization of Ostreopsis (Dinophyceae) and the description of a new species, Ostreopsis rhodesae sp. nov., from a subtropical Australian lagoon. Harmful Algae, 2016, 60, 116-130.	2.2	42
36	Transient Receptor Potential Ion Channels Control Thermoregulatory Behaviour in Reptiles. PLoS ONE, 2007, 2, e281.	1.1	42

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37	A reinvestigation of saxitoxin production and sxtA in the â€˜non-toxicâ€™ Alexandrium tamarense Group V clade. Harmful Algae, 2012, 18, 96-104.	2.2	41
38	A fish kill associated with a bloom of Amphidinium carterae in a coastal lagoon in Sydney, Australia. Harmful Algae, 2015, 49, 19-28.	2.2	40
39	Phylogenetic study of benthic, spine-bearing prorocentroids, including Prorocentrum fukuyoi sp. nov.. Phycological Research, 2007, 55, 91-102.	0.8	36
40	The Microbiome of the Cosmopolitan Diatom Leptocylindrus Reveals Significant Spatial and Temporal Variability. Frontiers in Microbiology, 2018, 9, 2758.	1.5	35
41	qPCR Assays for the Detection and Quantification of Multiple Paralytic Shellfish Toxin-Producing Species of Alexandrium. Frontiers in Microbiology, 2018, 9, 3153.	1.5	34
42	A new genus of athecate interstitial dinoflagellates, Togula gen. nov., previously encompassed within Amphidinium sensu lato: Inferred from light and electron microscopy and phylogenetic analyses of partial large subunit ribosomal DNA sequences. Phycological Research, 2004, 52, 284-299.	0.8	33
43	Thermal Acclimation and Regulation of Metabolism in a Reptile (Crocodylus porosus): The Importance of Transcriptional Mechanisms and Membrane Composition. Physiological and Biochemical Zoology, 2009, 82, 766-775.	0.6	32
44	The diatom genus <scp>P</scp>seudoâ€nitzschia (<scp>B</scp>acillariophyceae) in <scp>N</scp>ew <scp>S</scp>outh <scp>W</scp>ales, <scp>A</scp>ustralia: morphotaxonomy, molecular phylogeny, toxicity, and distribution. Journal of Phycology, 2013, 49, 765-785.	1.0	32
45	Historical accountability and cumulative impacts: the treatment of time in corporate sustainability reporting. Ecological Economics, 2004, 51, 237-250.	2.9	31
46	Role of Modular Polyketide Synthases in the Production of Polyether Ladder Compounds in Ciguatoxinâ€Producing Gambierdiscus polynesiensis and G. excentricus (Dinophyceae). Journal of Eukaryotic Microbiology, 2017, 64, 691-706.	0.8	31
47	Characterisation of Two Toxic Gambierdiscus spp. (Gonyaulacales, Dinophyceae) from the Great Barrier Reef (Australia): G. lewisii sp. nov. and G. holmesii sp. nov.. Protist, 2019, 170, 125699.	0.6	31
48	Cabra matta, gen. nov., sp. nov., a new benthic, heterotrophic dinoflagellate. European Journal of Phycology, 2004, 39, 229-234.	0.9	29
49	Cob gene pyrosequencing enables characterization of benthic dinoflagellate diversity and biogeography. Environmental Microbiology, 2014, 16, 467-485.	1.8	29
50	(2302) Proposal to reject the name Gonyaulax catenella (Alexandrium catenella) (Dinophyceae). Taxon, 2014, 63, 932-933.	0.4	29
51	Evaluation of sxtA and rDNA qPCR assays through monitoring of an inshore bloom of Alexandrium catenella Group 1. Scientific Reports, 2019, 9, 14532.	1.6	29
52	Amphidiniopsis korewalensis sp. nov., a new heterotrophic benthic dinoflagellate. Phycologia, 2002, 41, 382-388.	0.6	28
53	PHYLOGENETICS OFRHINODINIUM BROOMEENSEGEN. ET SP. NOV., A PERIDINIOID, SAND-DWELLING DINOFLAGELLATE (DINOPHYCEAE). Journal of Phycology, 2006, 42, 934-942.	1.0	28
54	Both modular and singleâ€domain Type I polyketide synthases are expressed in the brevetoxinâ€producing dinoflagellate, Karenia brevis (Dinophyceae). Journal of Phycology, 2017, 53, 1325-1339.	1.0	28

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55	Revealing RNA virus diversity and evolution in unicellular algae transcriptomes. Virus Evolution, 2021, 7, .	2.2	28
56	Population ecology of Noctiluca scintillans Macartney, a red-tide-forming dinoflagellate. Marine and Freshwater Research, 1999, 50, 243.	0.7	27
57	Molecular phylogenetics and morphology of Gambierdiscus yasumotoi from tropical eastern Australia. Harmful Algae, 2014, 39, 242-252.	2.2	26
58	Distribution of the genus Alexandrium (Halim) and paralytic shellfish toxins along the coastline of New South Wales, Australia. Marine Pollution Bulletin, 2013, 72, 133-145.	2.3	25
59	High Specificity of a Quantitative PCR Assay Targeting a Saxitoxin Gene for Monitoring Toxic Algae Associated with Paralytic Shellfish Toxins in the Yellow Sea. Applied and Environmental Microbiology, 2015, 81, 6973-6981.	1.4	25
60	Qualitative and quantitative assessment of the presence of ciguatoxin, P-CTX-1B, in Spanish Mackerel (Scomberomorus commerson) from waters in New South Wales (Australia). Toxicology Reports, 2017, 4, 328-334.	1.6	25
61	Thermal adaptation in endotherms: climate and phylogeny interact to determine populationâ€level responses in a wild rat. Functional Ecology, 2012, 26, 390-398.	1.7	24
62	Gene expression and molecular evolution of sxtA4 in a saxitoxin producing dinoflagellate Alexandrium catenella. Toxicon, 2014, 92, 102-112.	0.8	24
63	A new genus of athecate interstitial dinoflagellates, Togula gen. nov., previously encompassed within Amphidinium sensu lato: Inferred from light and electron microscopy and phylogenetic analyses of partial large subunit ribosomal DNA sequences. Phycological Research, 2004, 52, 284-299.	0.8	22
64	Differential accumulation of paralytic shellfish toxins from Alexandrium minutum in the pearl oyster, Pinctada imbricata. Toxicon, 2009, 54, 217-223.	0.8	22
65	Alexandrium diversaporum sp. nov., a new non-saxitoxin producing species: Phylogeny, morphology and sxtA genes. Harmful Algae, 2014, 31, 54-65.	2.2	22
66	A database of marine phytoplankton abundance, biomass and species composition in Australian waters. Scientific Data, 2016, 3, 160043.	2.4	22
67	Management of Ciguatoxin Risk in Eastern Australia. Toxins, 2017, 9, 367.	1.5	22
68	A new diatom species P. hallegraeffii sp. nov. belonging to the toxic genus Pseudo-nitzschia (Bacillariophyceae) from the East Australian Current. PLoS ONE, 2018, 13, e0195622.	1.1	22
69	Morphological and phylogenetic data do not support the split of Alexandrium into four genera. Harmful Algae, 2020, 98, 101902.	2.2	21
70	Phylogenetic study of Gymnodinium dorsalisulcum comb. nov. from tropical Australian coastal waters (Dinophyceae). Phycological Research, 2007, 55, 176-184.	0.8	19
71	Novel reptilian uncoupling proteins: molecular evolution and gene expression during cold acclimation. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 979-985.	1.2	19
72	Molecular phylogeny, morphology and toxigenicity of Ostreopsis cf. siamensis (Dinophyceae) from temperate southâ€east Australia. Phycological Research, 2016, 64, 146-159.	0.8	19

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73	Bloom drivers of the potentially harmful dinoflagellate Prorocentrum minimum (Pavillard) Schiller in a south eastern temperate Australian estuary. Estuarine, Coastal and Shelf Science, 2018, 215, 161-171.	0.9	19
74	First reports of <scp>P</scp>seudoâ€nitzschia micropora and <scp>P</scp>. hasleana (<scp>B</scp>acillariaceae) from the <scp>S</scp>outhern <scp>H</scp>emisphere: Morphological, molecular and toxicological characterization. Phycological Research, 2013, 61, 237-248.	0.8	19
75	Surface and Flagella Morphology of the Motile Form of Chromera velia Revealed by Field-Emission Scanning Electron Microscopy. Protist, 2011, 162, 142-153.	0.6	18
76	MORPHOLOGY AND MOLECULAR PHYLOGENY OF ANKISTRODINIUM GEN. NOV. (DINOPHYCEAE), A NEW GENUS OF MARINE SANDâ€DWELLING DINOFLAGELLATES FORMERLY CLASSIFIED WITHIN AMPHIDINIUM¹. Journal of Phycology, 2012, 48, 1143-1152.	1.0	18
77	Diversity, temporal distribution and physiology of the centric diatomLeptocylindrusCleve (Bacillariophyta) from a southern hemisphere upwelling system. Diatom Research, 2016, 31, 351-365.	0.5	17
78	Comparative performance of four immunological test kits for the detection of Paralytic Shellfish Toxins in Tasmanian shellfish. Toxicon, 2017, 125, 110-119.	0.8	17
79	Phenotypic trait variability as an indication of adaptive capacity in a cosmopolitan marine diatom. Environmental Microbiology, 2021, 23, 207-223.	1.8	17
80	The Contrasting Ecology of Temperate Macrotidal and Microtidal Estuaries. Oceanography and Marine Biology, 2016, , 387-412.	1.0	17
81	Warm temperature acclimation impacts metabolism of paralytic shellfish toxins from Alexandrium minutum in commercial oysters. Global Change Biology, 2015, 21, 3402-3413.	4.2	16
82	Development of a quantitative PCR assay for the detection and enumeration of a potentially ciguatoxin-producing dinoflagellate, Gambierdiscus lapillus (Gonyaulacales, Dinophyceae). PLoS ONE, 2019, 14, e0224664.	1.1	16
83	Morphological and molecular phylogenetic identification and record verification of Gambierdiscus excentricus (Dinophyceae) from Madeira Island (NE Atlantic Ocean). Marine Biodiversity Records, 2019, 12, .	1.2	16
84	Fifteen years of Pseudo-nitzschia in an Australian estuary, including the first potentially toxic P. delicatissima bloom in the southern hemisphere. Estuarine, Coastal and Shelf Science, 2020, 236, 106651.	0.9	15
85	Bysmatrum teres sp. nov., a new sand-dwelling dinoflagellate from north-western Australia. Phycologia, 2006, 45, 161-167.	0.6	14
86	Diarrhetic Shellfish Toxin Monitoring in Commercial Wild Harvest Bivalve Shellfish in New South Wales, Australia. Toxins, 2018, 10, 446.	1.5	13
87	Impacts of harmful algal blooms on marine aquaculture in a low-carbon future. Harmful Algae, 2021, 110, 102143.	2.2	13
88	Transcriptomic investigation into polyketide toxin synthesis in Ostreopsis (Dinophyceae) species. Environmental Microbiology, 2019, 21, 4196-4211.	1.8	12
89	Transcriptomics and microbial eukaryote diversity: a way forward. Trends in Ecology and Evolution, 2012, 27, 651-652.	4.2	11
90	Accumulation and depuration of paralytic shellfish toxins by Australian abalone Haliotis rubra : Conclusive association with Gymnodinium catenatum dinoflagellate blooms. Food Control, 2017, 73, 971-980.	2.8	11

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91	Morphology and Phylogenetics of Benthic Prorocentrum Species (Dinophyceae) from Tropical Northwestern Australia. Toxins, 2019, 11, 571.	1.5	11
92	Functional significance of phylogeographic structure in a toxic benthic marine microbial eukaryote over a latitudinal gradient along the East Australian Current. Ecology and Evolution, 2020, 10, 6257-6273.	0.8	11
93	9. Gambierdiscus, the cause of ciguatera fish poisoning: an increased human health threat influenced by climate change. , 2015, , 273-312.		9
94	Molecular Detection of theSxtaGene from Saxitoxin-ProducingAlexandrium minutumin Commercial Oysters. Journal of Shellfish Research, 2016, 35, 169-177.	0.3	8
95	The first report of the potentially harmful diatom Pseudoâ€nitzschia caciantha from Australian coastal waters. Phycological Research, 2016, 64, 312-317.	0.8	8
96	First Detection of Paralytic Shellfish Toxins from Alexandrium pacificum above the Regulatory Limit in Blue Mussels (Mytilus galloprovincialis) in New South Wales, Australia. Microorganisms, 2020, 8, 905.	1.6	8
97	Sexual reproduction and genetic polymorphism within the cosmopolitan marine diatom Pseudo-nitzschia pungens. Scientific Reports, 2020, 10, 10653.	1.6	7
98	Assessing the Use of Molecular Barcoding and qPCR for Investigating the Ecology of Prorocentrum minimum (Dinophyceae), a Harmful Algal Species. Microorganisms, 2021, 9, 510.	1.6	7
99	Using qPCR and high-resolution sensor data to model a multi-species Pseudo-nitzschia (Bacillariophyceae) bloom in southeastern Australia. Harmful Algae, 2021, 108, 102095.	2.2	7
100	Morphology and molecular phylogeny of Bindiferia gen. nov. (Dinophyceae), a new marine, sand-dwelling dinoflagellate genus formerly classified within Amphidinium. Phycologia, 0, , 1-13.	0.6	6
101	4. Alexandrium spp.: genetic and ecological factors influencing saxitoxin production and proliferation. , 2015, , 125-154.		4
102	First report of the potentially toxic marine diatom Pseudoâ€nitzschia simulans (Bacillariophyceae) from the East Australian Current. Phycological Research, 2020, 68, 254-259.	0.8	4
103	Mapping the development of a Dinophysis bloom in a shellfish aquaculture area using a novel molecular qPCR assay. Harmful Algae, 2022, 116, 102253.	2.2	4
104	A Comparative Analysis of Methods (LC-MS/MS, LC-MS and Rapid Test Kits) for the Determination of Diarrhetic Shellfish Toxins in Oysters, Mussels and Pipis. Toxins, 2021, 13, 563.	1.5	3
105	4 Alexandrium spp.: genetic and ecological factors influencing saxitoxin production and proliferation. , 2020, , 133-166.		3
106	Temperature variability interacts with mean temperature to influence the predictability of microbial phenotypes. Global Change Biology, 2022, 28, 5741-5754.	4.2	3
107	<scp>A</scp>nkistrodinium armigerum sp. nov. (<scp>D</scp>inophyceae), a new species of heterotrophic marine sandâ€dwelling dinoflagellate from <scp>J</scp>apan and <scp>A</scp>ustralia. Phycological Research, 2014, 62, 125-135.	0.8	2
108	Response to â€œMore surprises in the global greenhouse: Human health impacts form recent toxic marine aerosol formulations, due to centennial alterations or world-wide coastal food websâ€• Marine Pollution Bulletin, 2017, 123, 415-417.	2.3	0

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109	Phylogenetics, Molecular Biology and Ecological Impacts of a Group of Highly Unusual Protists. Cellular Origin and Life in Extreme Habitats, 2007, , 125-140.	0.3	0
110	Genomic Contributions to Understanding the Evolution of Red Algal Plastids and Pigment Biosynthesis. Cellular Origin and Life in Extreme Habitats, 2010, , 261-273.	0.3	0
111	9 Gambierdiscus, the cause of ciguatera fish poisoning: an increased human health threat influenced by climate change. , 2020, , 303-368.		0