Kathryn J Coyne

List of Publications by Year
in descending order

64	3,860	172457 29	128289 60
papers	citations	h-index	g-index

67	67	67	4357
all docs	docs citations	times ranked	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.	5.6	885
2	Niche of harmful alga Aureococcus anophagefferens revealed through ecogenomics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4352-4357.	7.1	256
3	Extensible Collagen in Mussel Byssus: A Natural Block Copolymer. Science, 1997, 277, 1830-1832.	12.6	242
4	The peculiar collagens of mussel byssus. Matrix Biology, 1998, 17, 93-106.	3.6	220
5	Interactive influences of nutrient loading, zooplankton grazing, and microcystin synthetase gene expression on cyanobacterial bloom dynamics in a eutrophic New York lake. Harmful Algae, 2007, 6, 119-133.	4.8	164
6	Improved quantitative realâ€time PCR assays for enumeration of harmful algal species in field samples using an exogenous DNA reference standard. Limnology and Oceanography: Methods, 2005, 3, 381-391.	2.0	130
7	Tough Tendons. Journal of Biological Chemistry, 1997, 272, 32623-32627.	3.4	119
8	Assessing temporal and spatial variability in Pfiesteria piscicida distributions using molecular probing techniques. Aquatic Microbial Ecology, 2001, 24, 275-285.	1.8	106
9	Endolithic microbial diversity in sandstone and granite from the McMurdo Dry Valleys, Antarctica. Polar Biology, 2017, 40, 997-1006.	1.2	99
10	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. Nature Methods, 2020, 17, 481-494.	19.0	97
11	Bottom-up controls on a mixed-species HAB assemblage: A comparison of sympatric Chattonella subsalsa and Heterosigma akashiwo (Raphidophyceae) isolates from the Delaware Inland Bays, USA. Harmful Algae, 2006, 5, 310-320.	4.8	94
12	Improved Methods for Capture, Extraction, and Quantitative Assay of Environmental DNA from Asian Bigheaded Carp (Hypophthalmichthys spp.). PLoS ONE, 2014, 9, e114329.	2.5	87
13	A bacterium that inhibits the growth of Pfiesteria piscicida and other dinoflagellates. Harmful Algae, 2005, 4, 221-234.	4.8	79
14	Using quantitative real-time PCR to study competition and community dynamics among Delaware Inland Bays harmful algae in field and laboratory studies. Harmful Algae, 2008, 7, 599-613.	4.8	63
15	Evaluating vertical migration behavior of harmful raphidophytes in the Delaware Inland Bays utilizing quantitative real-time PCR. Aquatic Microbial Ecology, 2005, 40, 121-132.	1.8	60
16	Investigation of the algicidal exudate produced by Shewanella sp. IRI-160 and its effect on dinoflagellates. Harmful Algae, 2012, 19, 23-29.	4.8	60
17	Community-Level and Species-Specific Associations between Phytoplankton and Particle-Associated Vibrio Species in Delaware's Inland Bays. Applied and Environmental Microbiology, 2015, 81, 5703-5713.	3.1	56
18	Demonstration of toxicity to fish and to mammalian cells by Pfiesteria species: Comparison of assay methods and strains. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3471-3476.	7.1	55

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19	Lipid biomarkers of deep-sea hydrothermal vent polychaetesâ€"Alvinella pompejana, A. caudata, Paralvinella grasslei and Hesiolyra bergii. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2333-2352.	1.4	52
20	Lipid composition of deep-sea hydrothermal vent tubeworm Riftia pachyptila, crabs Munidopsis subsquamosa and Bythograea thermydron, mussels Bathymodiolus sp. and limpets Lepetodrilus spp.. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 141, 196-210.	1.6	50
21	Transport of the Harmful Bloom Alga Aureococcus anophagefferens by Oceangoing Ships and Coastal Boats. Applied and Environmental Microbiology, 2004, 70, 6495-6500.	3.1	49
22	Cell cycle arrest and biochemical changes accompanying cell death in harmful dinoflagellates following exposure to bacterial algicide IRI-160AA. Scientific Reports, 2017, 7, 45102.	3.3	45
23	The use of quantitative polymerase chain reaction for the detection and enumeration of the harmful alga Aureococcus anophagefferens in environmental samples along the United States East Coast. Limnology and Oceanography: Methods, 2003, 1, 92-102.	2.0	43
24	Algicidal Bacteria: A Review of Current Knowledge and Applications to Control Harmful Algal Blooms. Frontiers in Microbiology, 2022, 13, 871177.	3.5	42
25	Simultaneous enumeration of multiple raphidophyte species by quantitative real-time PCR: capabilities and limitations. Limnology and Oceanography: Methods, 2006, 4, 193-204.	2.0	41
26	The use of quantitative polymerase chain reaction for the detection and enumeration of the harmful alga Aureococcus anophagefferens in environmental samples along the United States East Coast. Limnology and Oceanography: Methods, 2011, 1, 92-102.	2.0	40
27	Dynamics and short-term survival of toxic cyanobacteria species in ballast water from NOBOB vessels transiting the Great Lakesâ€"implications for HAB invasions. Harmful Algae, 2007, 6, 519-530.	4.8	39
28	INTERSTRAIN VARIABILITY IN PHYSIOLOGY AND GENETICS OF HETEROSIGMA AKASHIWO (RAPHIDOPHYCEAE) FROM THE WEST COAST OF NORTH AMERICA¹. Journal of Phycology, 2011, 47, 25-35.	2.3	35
29	Assessment of Microzooplankton Grazing on Heterosigma akashiwo Using a Species- Specific Approach Combining Quantitative Real-Time PCR (QPCR) and Dilution Methods. Microbial Ecology, 2008, 55, 583-594.	2.8	34
30	Diversity and Distributional Patterns of Ciliates in Guaymas Basin Hydrothermal Vent Sediments. Journal of Eukaryotic Microbiology, 2013, 60, 433-447.	1.7	32
31	Growth, death, and photobiology of dinoflagellates (Dinophyceae) under bacterial-algicide control. Journal of Applied Phycology, 2014, 26, 2117-2127.	2.8	30
32	Analysis of raphidophyte assimilatory nitrate reductase reveals unique domain architecture incorporating a 2/2 hemoglobin. Plant Molecular Biology, 2011, 77, 565-575.	3.9	29
33	Molecular Approaches to the Investigation of Viable Dinoflagellate Cysts in Natural Sediments from Estuarine Environments1. Journal of Eukaryotic Microbiology, 2005, 52, 90-94.	1.7	27
34	<scp>SSU</scp>â€<scp>rRNA</scp> Gene Sequencing Survey of Benthic Microbial Eukaryotes from Guaymas Basin Hydrothermal Vent. Journal of Eukaryotic Microbiology, 2019, 66, 637-653.	1.7	27
35	Use of Methacrylate De-embedding Protocols for In Situ Hybridization on Semithin Plastic Sections with Multiple Detection Strategies. Journal of Histochemistry and Cytochemistry, 1998, 46, 149-155.	2.5	25
36	Effects of the bacterial algicide IRI-160AA on cellular morphology of harmful dinoflagellates. Harmful Algae, 2017, 62, 127-135.	4.8	24

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37	Modified Serial Analysis of Gene Expression Method for Construction of Gene Expression Profiles of Microbial Eukaryotic Species. Applied and Environmental Microbiology, 2004, 70, 5298-5304.	3.1	23
38	Rapid Microbial Dynamics in Response to an Induced Wetting Event in Antarctic Dry Valley Soils. Frontiers in Microbiology, 2019, 10, 621.	3.5	22
39	The photobiology of Heterosigma akashiwo. Photoacclimation, diurnal periodicity, and its ability to rapidly exploit exposure to high light. Journal of Phycology, 2013, 49, 349-360.	2.3	20
40	The distribution and relative ecological roles of autotrophic and heterotrophic diazotrophs in the McMurdo Dry Valleys, Antarctica. FEMS Microbiology Ecology, 2020, 96, .	2.7	20
41	NITRATE REDUCTASE (NR1) SEQUENCE AND EXPRESSION IN THE HARMFUL ALGA HETEROSIGMA AKASHIWO (RAPHIDOPHYCEAE)1. Journal of Phycology, 2010, 46, 135-142.	2.3	19
42	Quantitative real-time PCR for detecting germination of Heterosigma akashiwo and Chattonella subsalsa cysts from Delawareâ€™s Inland Bays, USA. Aquatic Microbial Ecology, 2009, 55, 229-239.	1.8	19
43	In search of molecular dovetails in mussel byssus: from the threads to the stem. Journal of Experimental Biology, 2000, 203, 1425-31.	1.7	19
44	Effects of a bacterial algicide, IRI-160AA, on dinoflagellates and the microbial community in microcosm experiments. Harmful Algae, 2014, 39, 210-222.	4.8	17
45	Comparison of sandwich hybridization assay and quantitative PCR for the quantification of live and preserved cultures ofHeterosigma akashiwo(Raphidophyceae). Limnology and Oceanography: Methods, 2014, 12, 232-245.	2.0	16
46	Distribution of Pfiesteria piscicida cyst populations in sediments of the Delaware Inland Bays, USA. Harmful Algae, 2006, 5, 363-373.	4.8	15
47	Effects of growth phase, diel cycle and macronutrient stress on the quantification of Heterosigma akashiwo using qPCR and SHA. Harmful Algae, 2014, 37, 92-99.	4.8	15
48	Light intensity impacts the production of biofuel intermediates in Heterosigma akashiwo growing on simulated flue gas containing carbon dioxide and nitric oxide. Bioresource Technology, 2016, 219, 246-251.	9.6	14
49	Immobilization of algicidal bacterium Shewanella sp. IRI-160 and its application to control harmful dinoflagellates. Harmful Algae, 2020, 94, 101798.	4.8	14
50	Development and validation of a quantitative PCR assay for the early detection and monitoring of the invasive diatom Didymosphenia geminata. Harmful Algae, 2014, 36, 63-70.	4.8	12
51	DESCRIPTION OF VIRIDILOBUS MARINUS (GEN. ET SP. NOV.), A NEW RAPHIDOPHYTE FROM DELAWARE'S INLAND BAYS. Journal of Phycology, 2012, 48, 1220-1231.	2.3	11
52	The Marine Microalga, Heterosigma akashiwo, Converts Industrial Waste Gases into Valuable Biomass. Frontiers in Energy Research, 2015, 3, .	2.3	9
53	Expression of novel nitrate reductase genes in the harmful alga, Chattonella subsalsa. Scientific Reports, 2018, 8, 13417.	3.3	8
54	Small Polar Molecules: A Challenge in Marine Chemical Ecology. Molecules, 2019, 24, 135.	3.8	7

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55	Functional trait thermal acclimation differs across three species of mid-Atlantic harmful algae. Harmful Algae, 2020, 94, 101804.	4.8	7
56	Interactive effects of light, CO2 and temperature on growth and resource partitioning by the mixotrophic dinoflagellate, Karlodinium veneficum. PLoS ONE, 2021, 16, e0259161.	2.5	7
57	Metabolomic Insights of the Effects of Bacterial Algicide IRI-160AA on Dinoflagellate Karlodinium veneficum. Metabolites, 2022, 12, 317.	2.9	6
58	Critical comparison of molecular methods for detection and enumeration of the harmful algal species, Heterosigma akashiwo, in environmental water samples. Journal of Applied Phycology, 2018, 30, 2425-2434.	2.8	5
59	Simulation and analysis of a model dinoflagellate predator-prey system. European Physical Journal: Special Topics, 2015, 224, 3257-3270.	2.6	4
60	Diversity of Diatom Communities in Delaware Tidal Wetland and Their Relationship to Water Quality. Frontiers in Environmental Science, 2018, 6, .	3.3	4
61	Effects of a bacteria-produced algicide on non-target marine invertebrate species. Scientific Reports, 2021, 11, 583.	3.3	3
62	Characterization of Pfiesteria Ichthyocidal Activity. Applied and Environmental Microbiology, 2005, 71, 6463-6464.	3.1	2
63	Current applications and technological advances in quantitative real-time PCR (qPCR): a versatile tool for the study of phytoplankton ecology. , 2022, , 303-351.		2
64	Heterosigma akashiwo does not serve as prey and chloroplast donor for the toxic dinoflagellate, Dinophysis acuminata. Harmful Algae, 2022, 111, 102168.	4.8	0