

Kathryn J Coyne

List of Publications by Year in descending order

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64
papers

3,860
citations

172457

29
h-index

128289

60
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67
all docs

67
docs citations

67
times ranked

4357
citing authors

#	ARTICLE	IF	CITATIONS
1	Current applications and technological advances in quantitative real-time PCR (qPCR): a versatile tool for the study of phytoplankton ecology. , 2022, , 303-351.		2
2	Heterosigma akashiwo does not serve as prey and chloroplast donor for the toxic dinoflagellate, Dinophysis acuminata. Harmful Algae, 2022, 111, 102168.	4.8	0
3	Metabolomic Insights of the Effects of Bacterial Algicide IRI-160AA on Dinoflagellate Karlodinium veneficum. Metabolites, 2022, 12, 317.	2.9	6
4	Algicidal Bacteria: A Review of Current Knowledge and Applications to Control Harmful Algal Blooms. Frontiers in Microbiology, 2022, 13, 871177.	3.5	42
5	Effects of a bacteria-produced algicide on non-target marine invertebrate species. Scientific Reports, 2021, 11, 583.	3.3	3
6	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
7	Immobilization of algicidal bacterium Shewanella sp. IRI-160 and its application to control harmful dinoflagellates. Harmful Algae, 2020, 94, 101798.	4.8	14
8	Functional trait thermal acclimation differs across three species of mid-Atlantic harmful algae. Harmful Algae, 2020, 94, 101804.	4.8	7
9	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
10	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. Nature Methods, 2020, 17, 481-494.	19.0	97
11	Rapid Microbial Dynamics in Response to an Induced Wetting Event in Antarctic Dry Valley Soils. Frontiers in Microbiology, 2019, 10, 621.	3.5	22
12	Small Polar Molecules: A Challenge in Marine Chemical Ecology. Molecules, 2019, 24, 135.	3.8	7
13	<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
14	Expression of novel nitrate reductase genes in the harmful alga, Chattonella subsalsa. Scientific Reports, 2018, 8, 13417.	3.3	8
15	Diversity of Diatom Communities in Delaware Tidal Wetland and Their Relationship to Water Quality. Frontiers in Environmental Science, 2018, 6, .	3.3	4
16	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
17	Effects of the bacterial algicide IRI-160AA on cellular morphology of harmful dinoflagellates. Harmful Algae, 2017, 62, 127-135.	4.8	24
18	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

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19	Endolithic microbial diversity in sandstone and granite from the McMurdo Dry Valleys, Antarctica. <i>Polar Biology</i> , 2017, 40, 997-1006.	1.2	99
20	Light intensity impacts the production of biofuel intermediates in <i>Heterosigma akashiwo</i> growing on simulated flue gas containing carbon dioxide and nitric oxide. <i>Bioresource Technology</i> , 2016, 219, 246-251.	9.6	14
21	The Marine Microalga, <i>Heterosigma akashiwo</i> , Converts Industrial Waste Gases into Valuable Biomass. <i>Frontiers in Energy Research</i> , 2015, 3, .	2.3	9
22	Simulation and analysis of a model dinoflagellate predator-prey system. <i>European Physical Journal: Special Topics</i> , 2015, 224, 3257-3270.	2.6	4
23	Community-Level and Species-Specific Associations between Phytoplankton and Particle-Associated <i>Vibrio</i> Species in Delaware's Inland Bays. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5703-5713.	3.1	56
24	Improved Methods for Capture, Extraction, and Quantitative Assay of Environmental DNA from Asian Bigheaded Carp (<i>Hypophthalmichthys</i> spp.). <i>PLoS ONE</i> , 2014, 9, e114329.	2.5	87
25	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.	5.6	885
26	Growth, death, and photobiology of dinoflagellates (Dinophyceae) under bacterial-algicide control. <i>Journal of Applied Phycology</i> , 2014, 26, 2117-2127.	2.8	30
27	Effects of a bacterial algicide, IRI-160AA, on dinoflagellates and the microbial community in microcosm experiments. <i>Harmful Algae</i> , 2014, 39, 210-222.	4.8	17
28	Effects of growth phase, diel cycle and macronutrient stress on the quantification of <i>Heterosigma akashiwo</i> using qPCR and SHA. <i>Harmful Algae</i> , 2014, 37, 92-99.	4.8	15
29	Development and validation of a quantitative PCR assay for the early detection and monitoring of the invasive diatom <i>Didymosphenia geminata</i> . <i>Harmful Algae</i> , 2014, 36, 63-70.	4.8	12
30	Comparison of sandwich hybridization assay and quantitative PCR for the quantification of live and preserved cultures of <i>Heterosigma akashiwo</i> (Raphidophyceae). <i>Limnology and Oceanography: Methods</i> , 2014, 12, 232-245.	2.0	16
31	The photobiology of <i>Heterosigma akashiwo</i> . Photoacclimation, diurnal periodicity, and its ability to rapidly exploit exposure to high light. <i>Journal of Phycology</i> , 2013, 49, 349-360.	2.3	20
32	Diversity and Distributional Patterns of Ciliates in Guaymas Basin Hydrothermal Vent Sediments. <i>Journal of Eukaryotic Microbiology</i> , 2013, 60, 433-447.	1.7	32
33	DESCRIPTION OF <i>VIRIDILOBUS MARINUS</i> (GEN. ET SP. NOV.), A NEW RAPHIDOPHYTE FROM DELAWARE'S INLAND BAYS. <i>Journal of Phycology</i> , 2012, 48, 1220-1231.	2.3	11
34	Investigation of the algicidal exudate produced by <i>Shewanella</i> sp. IRI-160 and its effect on dinoflagellates. <i>Harmful Algae</i> , 2012, 19, 23-29.	4.8	60
35	INTERSTRAIN VARIABILITY IN PHYSIOLOGY AND GENETICS OF <i>HETEROSIGMA AKASHIWO</i> (RAPHIDOPHYCEAE) FROM THE WEST COAST OF NORTH AMERICA. <i>Journal of Phycology</i> , 2011, 47, 25-35.	2.3	35
36	Analysis of raphidophyte assimilatory nitrate reductase reveals unique domain architecture incorporating a 2/2 hemoglobin. <i>Plant Molecular Biology</i> , 2011, 77, 565-575.	3.9	29

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37	Niche of harmful alga <i>Aureococcus anophagefferens</i> revealed through ecogenomics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4352-4357.	7.1	256
38	The use of quantitative polymerase chain reaction for the detection and enumeration of the harmful alga <i>Aureococcus anophagefferens</i> in environmental samples along the United States East Coast. Limnology and Oceanography: Methods, 2011, 1, 92-102.	2.0	40
39	NITRATE REDUCTASE (NR1) SEQUENCE AND EXPRESSION IN THE HARMFUL ALGA HETEROSIGMA AKASHIWO (RAPHIDOPHYCEAE)1. Journal of Phycology, 2010, 46, 135-142.	2.3	19
40	Quantitative real-time PCR for detecting germination of <i>Heterosigma akashiwo</i> and <i>Chattonella subsalsa</i> cysts from Delaware's Inland Bays, USA. Aquatic Microbial Ecology, 2009, 55, 229-239.	1.8	19
41	Assessment of Microzooplankton Grazing on <i>Heterosigma akashiwo</i> Using a Species-Specific Approach Combining Quantitative Real-Time PCR (QPCR) and Dilution Methods. Microbial Ecology, 2008, 55, 583-594.	2.8	34
42	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
43	Dynamics and short-term survival of toxic cyanobacteria species in ballast water from NOBOB vessels transiting the Great Lakes—implications for HAB invasions. Harmful Algae, 2007, 6, 519-530.	4.8	39
44	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
45	Distribution of <i>Pfiesteria piscicida</i> cyst populations in sediments of the Delaware Inland Bays, USA. Harmful Algae, 2006, 5, 363-373.	4.8	15
46	Bottom-up controls on a mixed-species HAB assemblage: A comparison of sympatric <i>Chattonella subsalsa</i> and <i>Heterosigma akashiwo</i> (Raphidophyceae) isolates from the Delaware Inland Bays, USA. Harmful Algae, 2006, 5, 310-320.	4.8	94
47	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
48	Improved quantitative real-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
49	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
50	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
51	Characterization of <i>Pfiesteria</i> Ichthyocidal Activity. Applied and Environmental Microbiology, 2005, 71, 6463-6464.	3.1	2
52	Demonstration of toxicity to fish and to mammalian cells by <i>Pfiesteria</i> 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
53	Lipid composition of deep-sea hydrothermal vent tubeworm <i>Riftia pachyptila</i> , crabs <i>Munidopsis subsquamosa</i> and <i>Bythograea thermydron</i> , mussels <i>Bathymodiolus</i> sp. and limpets <i>Lepetodrilus</i> spp.. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 141, 196-210.	1.6	50
54	Lipid biomarkers of deep-sea hydrothermal vent polychaetes— <i>Alvinella pompejana</i> , <i>A. caudata</i> , <i>Paralvinella grasslei</i> and <i>Hesiolyra bergii</i> . Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2333-2352.	1.4	52

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55	A bacterium that inhibits the growth of <i>Pfiesteria piscicida</i> and other dinoflagellates. <i>Harmful Algae</i> , 2005, 4, 221-234.	4.8	79
56	Transport of the Harmful Bloom Alga <i>Aureococcus anophagefferens</i> by Oceangoing Ships and Coastal Boats. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6495-6500.	3.1	49
57	Modified Serial Analysis of Gene Expression Method for Construction of Gene Expression Profiles of Microbial Eukaryotic Species. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5298-5304.	3.1	23
58	The use of quantitative polymerase chain reaction for the detection and enumeration of the harmful alga <i>Aureococcus anophagefferens</i> in environmental samples along the United States East Coast. <i>Limnology and Oceanography: Methods</i> , 2003, 1, 92-102.	2.0	43
59	Assessing temporal and spatial variability in <i>Pfiesteria piscicida</i> distributions using molecular probing techniques. <i>Aquatic Microbial Ecology</i> , 2001, 24, 275-285.	1.8	106
60	In search of molecular dovetails in mussel byssus: from the threads to the stem. <i>Journal of Experimental Biology</i> , 2000, 203, 1425-31.	1.7	19
61	The peculiar collagens of mussel byssus. <i>Matrix Biology</i> , 1998, 17, 93-106.	3.6	220
62	Use of Methacrylate De-embedding Protocols for In Situ Hybridization on Semithin Plastic Sections with Multiple Detection Strategies. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 149-155.	2.5	25
63	Tough Tendons. <i>Journal of Biological Chemistry</i> , 1997, 272, 32623-32627.	3.4	119
64	Extensible Collagen in Mussel Byssus: A Natural Block Copolymer. <i>Science</i> , 1997, 277, 1830-1832.	12.6	242