Kay D Bidle

List of Publications by Year
in descending order

63 papers	5,434 citations	109137 35 h-index	114278 63 g-index
63 all docs	63 docs citations	63 times ranked	5463 citing authors

#	Article	IF	Citations
1	Virusâ€induced spore formation as a defense mechanism in marine diatoms. New Phytologist, 2021, 229, 2251-2259.	3.5	24
2	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. Nature Communications, 2021, 12, 6634.	5.8	19
3	Temperate infection in a virusâ€“host system previously known for virulent dynamics. Nature Communications, 2020, 11, 4626.	5.8	28
4	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. Molecular Cell, 2020, 77, 927-929.	4.5	71
5	The interaction of physical and biological factors drives phytoplankton spatial distribution in the northern California Current. Limnology and Oceanography, 2020, 65, 1974-1989.	1.6	5
6	The Possession of Coccoliths Fails to Deter Microzooplankton Grazers. Frontiers in Marine Science, 2020, 7, .	1.2	8
7	The mutual interplay between calcification and coccolithovirus infection. Environmental Microbiology, 2019, 21, 1896-1915.	1.8	23
8	Silicon limitation facilitates virus infection and mortality of marine diatoms. Nature Microbiology, 2019, 4, 1790-1797.	5.9	64
9	Nitric oxide production and antioxidant function during viral infection of the coccolithophore <i>Emiliania huxleyi</i>. ISME Journal, 2019, 13, 1019-1031.	4.4	20
10	Biochemical diversity of glycosphingolipid biosynthesis as a driver of <i>Coccolithovirus</i> competitive ecology. Environmental Microbiology, 2019, 21, 2182-2197.	1.8	12
11	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. Frontiers in Marine Science, 2019, 6, .	1.2	111
12	Metacaspase involvement in programmed cell death of the marine cyanobacterium <i>Trichodesmium</i>. Environmental Microbiology, 2019, 21, 667-681.	1.8	23
13	Catalytic linkage between caspase activity and proteostasis in <i>Archaea</i>. Environmental Microbiology, 2019, 21, 286-298.	1.8	4
14	Light regulation of coccolithophore hostâ€“virus interactions. New Phytologist, 2019, 221, 1289-1302.	3.5	29
15	Expression profiling of host and virus during a coccolithophore bloom provides insights into the role of viral infection in promoting carbon export. ISME Journal, 2018, 12, 704-713.	4.4	53
16	Coccolithovirus facilitation of carbon export in the North Atlantic. Nature Microbiology, 2018, 3, 537-547.	5.9	114
17	Interrogating marine virusâ€host interactions and elemental transfer with BONCAT and nanoSIMSâ€based methods. Environmental Microbiology, 2018, 20, 671-692.	1.8	53
18	An updated method for the calibration of transparent exopolymer particle measurements. Limnology and Oceanography: Methods, 2018, 16, 621-628.	1.0	37

#	Article	IF	Citations
19	Dynamics of transparent exopolymer particle production and aggregation during viral infection of the coccolithophore, <i>Emiliania huxleyi</i>. Environmental Microbiology, 2018, 20, 2880-2897.	1.8	30
20	Direct measurements of the light dependence of gross photosynthesis and oxygen consumption in the ocean. Limnology and Oceanography, 2017, 62, 1066-1079.	1.6	12
21	Stress, death, and the biological glue of sinking matter. Journal of Phycology, 2017, 53, 241-244.	1.0	6
22	Mechanisms of <i>Trichodesmium</i> demise within the New Caledonian lagoon during the VAHINE mesocosm experiment. Biogeosciences, 2016, 13, 4187-4203.	1.3	28
23	A liposome-encapsulated spin trap for the detection of nitric oxide. Free Radical Biology and Medicine, 2016, 96, 199-210.	1.3	12
24	Programmed Cell Death in Unicellular Phytoplankton. Current Biology, 2016, 26, R594-R607.	1.8	145
25	The multiple fates of sinking particles in the North Atlantic Ocean. Global Biogeochemical Cycles, 2015, 29, 1471-1494.	1.9	76
26	Infection of phytoplankton by aerosolized marine viruses. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6643-6647.	3.3	79
27	Dose-dependent regulation of microbial activity on sinking particles by polyunsaturated aldehydes: Implications for the carbon cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5909-5914.	3.3	54
28	The Molecular Ecophysiology of Programmed Cell Death in Marine Phytoplankton. Annual Review of Marine Science, 2015, 7, 341-375.	5.1	131
29	BioDry: An Inexpensive, Low-Power Method to Preserve Aquatic Microbial Biomass at Room Temperature. PLoS ONE, 2015, 10, e0144686.	1.1	2
30	Decoupling atmospheric and oceanic factors affecting aerosol loading over a cluster of mesoscale North Atlantic eddies. Geophysical Research Letters, 2014, 41, 4075-4081.	1.5	13
31	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
32	Attenuation of virus production at high multiplicities of infection in Aureococcus anophagefferens. Virology, 2014, 466-467, 71-81.	1.1	50
33	Novel molecular determinants of viral susceptibility and resistance in the lipidome of <scp><i>E</i></scp><i>miliania huxleyi</i>. Environmental Microbiology, 2014, 16, 1137-1149.	1.8	68
34	Isolation and characterization of lipid rafts in <scp><i>E</i></scp><i>miliania huxleyi</i>: a role for membrane microdomains in hostâ€"virus interactions. Environmental Microbiology, 2014, 16, 1150-1166.	1.8	46
35	Elucidating marine virus ecology through a unified heartbeat. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15606-15607.	3.3	10
36	Virus infection of Haptolina ericina and Phaeocystis pouchetii implicates evolutionary conservation of programmed cell death induction in marine haptophyteâ€"virus interactions. Journal of Plankton Research, 2014, 36, 943-955.	0.8	8

#	Article	IF	Citations
37	Low <scp>CO</scp>₂ results in a rearrangement of carbon metabolism to support C₄ photosynthetic carbon assimilation in <i>Thalassiosira pseudonana</i>. New Phytologist, 2014, 204, 507-520.	3.5	67
38	Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. Current Biology, 2014, 24, 2041-2046.	1.8	110
39	Temperature-Induced Viral Resistance in Emiliania huxleyi (Prymnesiophyceae). PLoS ONE, 2014, 9, e112134.	1.1	29
40	Programmed cell death in the marine cyanobacterium <i>Trichodesmium</i> mediates carbon and nitrogen export. ISME Journal, 2013, 7, 2340-2348.	4.4	81
41	Specificity of archaeal caspase activity in the extreme halophile <i><scp>H</scp>aloferax volcanii</i>. Environmental Microbiology Reports, 2013, 5, 263-271.	1.0	9
42	Death-specific protein in a marine diatom regulates photosynthetic responses to iron and light availability. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20123-20128.	3.3	43
43	ASSESSING THE ROLE OF CASPASE ACTIVITY AND METACASPASE EXPRESSION ON VIRAL SUSCEPTIBILITY OF THE COCCOLITHOPHORE, <i><scp>E</scp>MILIANIA HUXLEYI</i> (HAPTOPHYTA). Journal of Phycology, 2012, 48, 1079-1089.	1.0	19
44	Hostâ€“virus dynamics and subcellular controls of cell fate in a natural coccolithophore population. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19327-19332.	3.3	189
45	Wholeâ€genome expression analysis reveals a role for deathâ€related genes in stress acclimation of the diatom <i>Thalassiosira pseudonana</i>. Environmental Microbiology, 2012, 14, 67-81.	1.8	80
46	<i>In situ</i> survey of life cycle phases of the coccolithophore <i>Emiliania huxleyi</i> (<i>Haptophyta</i>). Environmental Microbiology, 2012, 14, 1558-1569.	1.8	62
47	A chemical arms race at sea mediates algal hostâ€“virus interactions. Current Opinion in Microbiology, 2011, 14, 449-457.	2.3	84
48	Quantification of nitrogenase in <i>Trichodesmium</i> IMS 101: implications for iron limitation of nitrogen fixation in the ocean. Environmental Microbiology Reports, 2011, 3, 54-58.	1.0	24
49	Tantalizing evidence for caspaseâ€like protein expression and activity in the cellular stress response of <i>Archaea</i>. Environmental Microbiology, 2010, 12, 1161-1172.	1.8	24
50	Density dependent expression of a diatom retrotransposon. Marine Genomics, 2010, 3, 145-150.	0.4	9
51	Viral Glycosphingolipids Induce Lytic Infection and Cell Death in Marine Phytoplankton. Science, 2009, 326, 861-865.	6.0	229
52	A Diatom Gene Regulating Nitric-Oxide Signaling and Susceptibility to Diatom-Derived Aldehydes. Current Biology, 2008, 18, 895-899.	1.8	126
53	Iron Starvation and Culture Age Activate Metacaspases and Programmed Cell Death in the Marine Diatom <i>Thalassiosira pseudonana</i>. Eukaryotic Cell, 2008, 7, 223-236.	3.4	110
54	Viral activation and recruitment of metacaspases in the unicellular coccolithophore, Emiliania huxleyi. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6049-6054.	3.3	167

#	Article	IF	Citations
55	Fossil genes and microbes in the oldest ice on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13455-13460.	3.3	141
56	Genomic DNA Extracted from Ancient Antarctic Glacier Ice for Molecular Analyses on the Indigenous Microbial Communities. Ocean and Polar Research, 2005, 27, 205-214.	0.3	3
57	The demise of the marine cyanobacterium, <i>Trichodesmium</i> spp., via an autocatalyzed cell death pathway. Limnology and Oceanography, 2004, 49, 997-1005.	1.6	254
58	Cell death in planktonic, photosynthetic microorganisms. Nature Reviews Microbiology, 2004, 2, 643-655.	13.6	300
59	The balance between silica production and silica dissolution in the sea: Insights from Monterey Bay, California, applied to the global data set. Limnology and Oceanography, 2003, 48, 1846-1854.	1.6	92
60	Diminished efficiency in the oceanic silica pump caused by bacteriaâ€mediated silica dissolution. Limnology and Oceanography, 2003, 48, 1855-1868.	1.6	78
61	Regulation of Oceanic Silicon and Carbon Preservation by Temperature Control on Bacteria. Science, 2002, 298, 1980-1984.	6.0	112
62	Bacterial control of silicon regeneration from diatom detritus: Significance of bacterial ectohydrolases and species identity. Limnology and Oceanography, 2001, 46, 1606-1623.	1.6	163
63	Accelerated dissolution of diatom silica by marine bacterial assemblages. Nature, 1999, 397, 508-512.	13.7	476