

# Kathleen A Donohue

## List of Publications by Year in descending order

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111  
papers

6,523  
citations

57631

44  
h-index

71532

76  
g-index

116  
all docs

116  
docs citations

116  
times ranked

6365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Germination, Postgermination Adaptation, and Species Ecological Ranges. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2010, 41, 293-319.	3.8	670
2	Completing the cycle: maternal effects as the missing link in plant life histories. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1059-1074.	1.8	356
3	Major flowering time gene, <i>FLOWERING LOCUS C</i> , regulates seed germination in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11661-11666.	3.3	263
4	THE EVOLUTIONARY ECOLOGY OF SEED GERMINATION OF ARABIDOPSIS THALIANA: VARIABLE NATURAL SELECTION ON GERMINATION TIMING. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 758-770.	1.1	215
5	GERMINATION TIMING INFLUENCES NATURAL SELECTION ON LIFE-HISTORY CHARACTERS IN ARABIDOPSIS THALIANA. <i>Ecology</i> , 2002, 83, 1006-1016.	1.5	193
6	EVIDENCE OF ADAPTIVE DIVERGENCE IN PLASTICITY: DENSITY- AND SITE-DEPENDENT SELECTION ON SHADE-AVOIDANCE RESPONSES IN <i>IMPATIENS CAPENSIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1956-1968.	1.1	187
7	Genetics of dispersal. <i>Biological Reviews</i> , 2018, 93, 574-599.	4.7	182
8	Mean Antarctic Circumpolar Current transport measured in Drake Passage. <i>Geophysical Research Letters</i> , 2016, 43, 11,760.	1.5	173
9	Niche construction through phenological plasticity: life history dynamics and ecological consequences. <i>New Phytologist</i> , 2005, 166, 83-92.	3.5	158
10	The earliest stages of adaptation in an experimental plant population: strong selection on QTLs for seed dormancy. <i>Molecular Ecology</i> , 2010, 19, 1335-1351.	2.0	156
11	<i>DOG1</i> expression is predicted by the seed maturation environment and contributes to geographical variation in germination in <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , 2011, 20, 3336-3349.	2.0	144
12	Environment-dependent inbreeding depression: its ecological and evolutionary significance. <i>New Phytologist</i> , 2011, 189, 395-407.	3.5	135
13	ENVIRONMENTAL AND GENETIC INFLUENCES ON THE GERMINATION OF ARABIDOPSIS THALIANA IN THE FIELD. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 740-757.	1.1	120
14	The Great Whirl: Observations of its seasonal development and interannual variability. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1-13.	1.0	120
15	Environmental and genetic influences on the germination of <i>Arabidopsis thaliana</i> in the field. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 740-57.	1.1	118
16	The effect of maternal photoperiod on seasonal dormancy in <i>Arabidopsis thaliana</i> (Brassicaceae). <i>American Journal of Botany</i> , 2001, 88, 1240-1249.	0.8	117
17	A new role for phytochromes in temperature-dependent germination. <i>New Phytologist</i> , 2007, 174, 735-741.	3.5	110
18	Adjusting phenotypes via within- and across-generational plasticity. <i>New Phytologist</i> , 2017, 216, 343-349.	3.5	105

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19	NICHE CONSTRUCTION THROUGH GERMINATION CLUEING: LIFE-HISTORY RESPONSES TO TIMING OF GERMINATION IN <i>ARABIDOPSIS THALIANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 771-785.	1.1	99
20	Seeds and seasons: interpreting germination timing in the field. <i>Seed Science Research</i> , 2005, 15, 175-187.	0.8	94
21	Modeling the Influence of Genetic and Environmental Variation on the Expression of Plant Life Cycles across Landscapes. <i>American Naturalist</i> , 2015, 185, 212-227.	1.0	94
22	Mapping Circulation in the Kuroshio Extension with an Array of Current and Pressure Recording Inverted Echo Sounders. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 507-527.	0.5	91
23	Setting the Stage: Phenotypic Plasticity as Habitat Selection. <i>International Journal of Plant Sciences</i> , 2003, 164, S79-S92.	0.6	90
24	The evolutionary ecology of seed germination of <i>Arabidopsis thaliana</i> : variable natural selection on germination timing. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 758-70.	1.1	88
25	Diversification of phytochrome contributions to germination as a function of seedâ€™maturation environment. <i>New Phytologist</i> , 2008, 177, 367-379.	3.5	86
26	Local adaptation and plasticity of <i>Erysimum capitatum</i> to altitude: its implications for responses to climate change. <i>Journal of Ecology</i> , 2013, 101, 796-805.	1.9	86
27	Observations of the Subtropical Mode Water Evolution from the Kuroshio Extension System Study. <i>Journal of Physical Oceanography</i> , 2006, 36, 457-473.	0.7	85
28	THE GENETIC ARCHITECTURE OF PLASTICITY TO DENSITY IN <i>IMPATIENS CAPENSIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1377-1386.	1.1	83
29	Understanding Evolutionary Impacts of Seasonality: An Introduction to the Symposium. <i>Integrative and Comparative Biology</i> , 2017, 57, 921-933.	0.9	82
30	The Influence of Neighbor Relatedness on Multilevel Selection in the Great Lakes Sea Rocket. <i>American Naturalist</i> , 2003, 162, 77-92.	1.0	78
31	Loop Current Eddy formation and baroclinic instability. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 76, 195-216.	0.7	75
32	DENSITY DEPENDENCE AND POPULATION DIFFERENTIATION OF GENETIC ARCHITECTURE IN <i>IMPATIENS CAPENSIS</i> IN NATURAL ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1969-1981.	1.1	74
33	Multiple paths to similar germination behavior in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2016, 209, 1301-1312.	3.5	74
34	Densityâ€dependent processes influencing the evolutionary dynamics of dispersal: a functional analysis of seed dispersal in <i>Arabidopsis thaliana</i> (Brassicaceae). <i>American Journal of Botany</i> , 2005, 92, 960-971.	0.8	67
35	On the longâ€term stability of Gulf Stream transport based on 20â€™years of direct measurements. <i>Geophysical Research Letters</i> , 2014, 41, 114-120.	1.5	65
36	WHY ONTOGENY MATTERS DURING ADAPTATION: DEVELOPMENTAL NICHE CONSTRUCTION AND PLEIOTORPY ACROSS THE LIFE CYCLE IN <i>ARABIDOPSIS THALIANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 32-47.	1.1	62

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37	Hybridization can facilitate species invasions, even without enhancing local adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10210-10214.	3.3	58
38	Genetic Basis and Consequences of Niche Construction: Plasticity-Induced Genetic Constraints on the Evolution of Seed Dispersal in <i>Arabidopsis thaliana</i> . American Naturalist, 2005, 165, 537-550.	1.0	57
39	Phytochrome mediates germination responses to multiple seasonal cues. Plant, Cell and Environment, 2007, 30, 202-212.	2.8	57
40	Wavenumber Spectrum in the Gulf Stream from Shipboard ADCP Observations and Comparison with Altimetry Measurements. Journal of Physical Oceanography, 2010, 40, 840-844.	0.7	57
41	Baroclinic Transport Time Series of the Antarctic Circumpolar Current Measured in Drake Passage. Journal of Physical Oceanography, 2014, 44, 1829-1853.	0.7	56
42	Strong bottom currents and cyclogenesis in Drake Passage. Geophysical Research Letters, 2009, 36, .	1.5	51
43	Applying developmental threshold models to evolutionary ecology. Trends in Ecology and Evolution, 2015, 30, 66-77.	4.2	50
44	Pleiotropy in developmental regulation by flowering pathway genes: is it an evolutionary constraint?. New Phytologist, 2019, 224, 55-70.	3.5	49
45	On the variability of Gulf Stream transport from seasonal to decadal timescales. Journal of Marine Research, 2010, 68, 503-522.	0.3	49
46	Gene-flow through space and time: dispersal, dormancy and adaptation to changing environments. Evolutionary Ecology, 2015, 29, 813-831.	0.5	47
47	Seed after-ripening and dormancy determine adult life history independently of germination timing. New Phytologist, 2012, 194, 868-879.	3.5	43
48	Gulf of Mexico Loop Current path variability. Dynamics of Atmospheres and Oceans, 2016, 76, 174-194.	0.7	42
49	Program Studies the Kuroshio Extension. Eos, 2008, 89, 161-162.	0.1	40
50	A comparison of in situ bottom pressure array measurements with GRACE estimates in the Kuroshio Extension. Geophysical Research Letters, 2008, 35, .	1.5	40
51	Diversification and the evolution of dispersal ability in the tribe Brassiceae (Brassicaceae). Annals of Botany, 2014, 114, 1675-1686.	1.4	39
52	Secondary dormancy dynamics depends on primary dormancy status in <i>Arabidopsis thaliana</i> . Seed Science Research, 2015, 25, 230-246.	0.8	39
53	New Roles of Phytochromes during Seed Germination. International Journal of Plant Sciences, 2008, 169, 531-540.	0.6	34
54	Divergent Eddy Heat Fluxes in the Kuroshio Extension at 144°E-148°E. Part I: Mean Structure. Journal of Physical Oceanography, 2013, 43, 1533-1550.	0.7	33

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55	Niche construction through germination cueing: life-history responses to timing of germination in <i>Arabidopsis thaliana</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 771-85.	1.1	33
56	Maternal vernalization and vernalization pathway genes influence progeny seed germination. <i>New Phytologist</i> , 2017, 216, 388-400.	3.5	30
57	DENSITY-DEPENDENT MULTILEVEL SELECTION IN THE GREAT LAKES SEA ROCKET. <i>Ecology</i> , 2004, 85, 180-191.	1.5	28
58	Demographic, developmental and life-history variation across altitude in <i>Erysimum capitatum</i> . <i>Journal of Ecology</i> , 2011, 99, 1237-1249.	1.9	25
59	Propagation of Kuroshio Extension Meanders between 143° and 149°E. <i>Journal of Physical Oceanography</i> , 2012, 42, 581-601.	0.7	25
60	Contrasting germination responses to vegetative canopies experienced in pre- vs. post-dispersal environments. <i>Annals of Botany</i> , 2016, 118, 1175-1186.	1.4	24
61	ADAPTIVE DIVERGENCE IN PLASTICITY IN NATURAL POPULATIONS OF <i>IMPATIENS CAPENSIS</i> AND ITS CONSEQUENCES FOR PERFORMANCE IN NOVEL HABITATS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 692-702.	1.1	23
62	cDrake: Dynamics and Transport of the Antarctic Circumpolar Current in Drake Passage. <i>Oceanography</i> , 2012, 25, 134-135.	0.5	23
63	A cline in seed dormancy helps conserve the environment experienced during reproduction across the range of <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , 2016, 103, 47-59.	0.8	23
64	Eddy heat flux across the Antarctic circumpolar current estimated from sea surface height standard deviation. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6947-6964.	1.0	22
65	The fitness benefits of germinating later than neighbors. <i>American Journal of Botany</i> , 2018, 105, 20-30.	0.8	22
66	The Gulf Stream's path and time-averaged velocity structure and transport at 68.5°W and 70.3°W. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 156, 103179.	0.6	22
67	Comparisons of sea surface height variability observed by pressure-recording inverted echo sounders and satellite altimetry in the Kuroshio Extension. <i>Journal of Oceanography</i> , 2012, 68, 401-416.	0.7	20
68	THE EPIGENETICS OF ADAPTATION: FOCUSING ON EPIGENETIC STABILITY AS AN EVOLVING TRAIT. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 617-619.	1.1	20
69	Maternal temperature effects on dormancy influence germination responses to water availability in <i>Arabidopsis thaliana</i> . <i>Environmental and Experimental Botany</i> , 2016, 126, 55-67.	2.0	19
70	Genotypic variation in the persistence of transgenerational responses to seasonal cues*. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 2265-2280.	1.1	17
71	Within- and trans-generational plasticity: seed germination responses to light quantity and quality. <i>AoB PLANTS</i> , 2018, 10, ply023.	1.2	16
72	PHYD prevents secondary dormancy establishment of seeds exposed to high temperature and is associated with lower PIL5 accumulation. <i>Journal of Experimental Botany</i> , 2018, 69, 3157-3169.	2.4	16

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73	Antarctic Circumpolar Current Transport Through Drake Passage: What Can We Learn From Comparing High-Resolution Model Results to Observations?. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016365.	1.0	16
74	Estimates of Eddy Heat Flux Crossing the Antarctic Circumpolar Current from Observations in Drake Passage. <i>Journal of Physical Oceanography</i> , 2016, 46, 2103-2122.	0.7	15
75	Photoperiod throughout the maternal life cycle, not photoperiod during seed imbibition, influences germination in <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , 2017, 104, 516-526.	0.8	14
76	The Polar Front in Drake Passage: A composite-mean stream-coordinate view. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1771-1788.	1.0	13
77	Three-dimensional model-observation comparison in the Loop Current region. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 76, 283-305.	0.7	13
78	Effect of FLOWERING LOCUS C on seed germination depends on dormancy. <i>Functional Plant Biology</i> , 2017, 44, 493.	1.1	13
79	Distribution of deep near-inertial waves observed in the Kuroshio Extension. <i>Journal of Oceanography</i> , 2010, 66, 709-717.	0.7	12
80	Can the Environment have a Genetic Basis? A Case Study of Seedling Establishment in <i>Arabidopsis thaliana</i> . <i>Journal of Heredity</i> , 2019, 110, 467-478.	1.0	12
81	Air pressure effects on sea level changes during the twentieth century. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7917-7930.	1.0	11
82	Effects of pre- and post-dispersal temperature on primary and secondary dormancy dynamics in contrasting genotypes of <i>Arabidopsis thaliana</i> (Brassicaceae). <i>Plant Species Biology</i> , 2017, 32, 210-222.	0.6	11
83	Elevation filters seed traits and germination strategies in the eastern Tibetan Plateau. <i>Ecography</i> , 2021, 44, 242-254.	2.1	11
84	Seafloor Geodetic Pressure Measurements to Detect Shallow Slow Slip Events: Methods to Remove Contributions From Ocean Water. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020065.	1.4	11
85	Canalization of Seasonal Phenology in the Presence of Developmental Variation: Seed Dormancy Cycling in an Annual Weed. <i>Integrative and Comparative Biology</i> , 2017, 57, 1021-1039.	0.9	10
86	Genetic differences in the temporal and environmental stability of transgenerational environmental effects. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 2773-2790.	1.1	10
87	Sea Surface Height Variability in Drake Passage. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 669-683.	0.5	9
88	Maternal effects alter natural selection on phytochromes through seed germination. <i>Journal of Ecology</i> , 2012, 100, 750-757.	1.9	8
89	A Comparison of Vessel-Mounted Acoustic Doppler Current Profiler and Satellite Altimeter Estimates of Sea Surface Height and Transports between New Jersey and Bermuda along the CMV Oleander Route. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1422-1433.	0.5	8
90	Near 13 day barotropic ocean response to the atmospheric forcing in the North Pacific. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7

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91	Four Current Meter Models Compared in Strong Currents in Drake Passage. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2465-2477.	0.5	7
92	Evaluation of Thermosalinograph and VIIRS Data for the Characterization of Near-Surface Temperature Fields. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1843-1858.	0.5	7
93	Autonomous Wintertime Observations of Air-Sea Exchange in the Gulf Stream Reveal a Perfect Storm for Ocean CO <sub>2</sub> Uptake. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
94	The effect of plant architecture on drought resistance: implications for the evolution of semelparity in <i>Erysimum capitatum</i> . <i>Functional Ecology</i> , 2012, 26, 294-303.	1.7	6
95	The evolution of intrinsic reproductive isolation in the genus <i>Cakile</i> (Brassicaceae). <i>Journal of Evolutionary Biology</i> , 2017, 30, 361-376.	0.8	6
96	Five years' central pacific sea level from in situ array, satellite altimeter and numerical model: Research note. <i>Atmosphere - Ocean</i> , 1994, 32, 495-506.	0.6	5
97	Some Evolutionary Consequences of Niche Construction with Genotype-Environment Interaction. , 2009, , 131-149.		4
98	Genetic Consequences of Biologically Altered Environments. <i>Journal of Heredity</i> , 2022, 113, 26-36.	1.0	4
99	Genotype-by-Environment Interaction. , 2016, , 186-194.		3
100	Divergence in How Genetic Pathways Respond to Environments. <i>Trends in Plant Science</i> , 2017, 22, 817-819.	4.3	3
101	Bottom Temperatures in Drake Passage. <i>Journal of Physical Oceanography</i> , 2017, 47, 101-122.	0.7	3
102	The Scientific and Societal Uses of Global Measurements of Subsurface Velocity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	3
103	Gene duplication and the environmental regulation of physiology and development. <i>Ecology and Evolution</i> , 2014, 4, 2202-2216.	0.8	2
104	Challenges of Measuring Abyssal Temperature and Salinity at the Kuroshio Extension Observatory. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1999-2014.	0.5	2
105	Multi-tasking as an ancient skill: When one gene does many things well. <i>Molecular Ecology</i> , 2019, 28, 917-919.	2.0	1
106	Explaining the worldwide distributions of two highly mobile species: <i>Cakile edentula</i> and <i>Cakile maritima</i> . <i>Journal of Biogeography</i> , 2021, 48, 603-615.	1.4	1
107	The effect of seed-dispersal timing on seedling recruitment is modulated by environmental conditions that vary across altitude in a threatened palm. <i>Annals of Botany</i> , 2022, , .	1.4	1
108	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	1.5	0

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109	Thank You to Our 2019 Peer Reviewers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088048.	1.5	0
110	Thank You to Our 2020 Peer Reviewers. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093126.	1.5	0
111	Thank You to Our 2021 Peer Reviewers. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	0