Kathleen A Donohue

List of Publications by Year
in descending order

111 papers	6,523 citations	57758 44 h-index	69250 77 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. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 293-319.	8.3	670
2	Completing the cycle: maternal effects as the missing link in plant life histories. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1059-1074.	4.0	356
3	Major flowering time gene, FLOWERING LOCUS C , regulates seed germination in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11661-11666.	7.1	263
4	THE EVOLUTIONARY ECOLOGY OF SEED GERMINATION OF ARABIDOPSIS THALIANA: VARIABLE NATURAL SELECTION ON GERMINATION TIMING. Evolution; International Journal of Organic Evolution, 2005, 59, 758-770.	2.3	215
5	GERMINATION TIMING INFLUENCES NATURAL SELECTION ON LIFE-HISTORY CHARACTERS IN ARABIDOPSIS THALIANA. Ecology, 2002, 83, 1006-1016.	3.2	193
6	EVIDENCE OF ADAPTIVE DIVERGENCE IN PLASTICITY: DENSITY- AND SITE-DEPENDENT SELECTION ON SHADE-AVOIDANCE RESPONSES IN IMPATIENS CAPENSIS. Evolution; International Journal of Organic Evolution, 2000, 54, 1956-1968.	2.3	187
7	Genetics of dispersal. Biological Reviews, 2018, 93, 574-599.	10.4	182
8	Mean Antarctic Circumpolar Current transport measured in Drake Passage. Geophysical Research Letters, 2016, 43, 11,760.	4.0	173
9	Niche construction through phenological plasticity: life history dynamics and ecological consequences. New Phytologist, 2005, 166, 83-92.	7.3	158
10	The earliest stages of adaptation in an experimental plant population: strong selection on QTLS for seed dormancy. Molecular Ecology, 2010, 19, 1335-1351.	3.9	156
11	DOG1 expression is predicted by the seedâ€maturation environment and contributes to geographical variation in germination in Arabidopsis thaliana. Molecular Ecology, 2011, 20, 3336-3349.	3.9	144
12	Environmentâ€dependent inbreeding depression: its ecological and evolutionary significance. New Phytologist, 2011, 189, 395-407.	7.3	135
13	ENVIRONMENTAL AND GENETIC INFLUENCES ON THE GERMINATION OF ARABIDOPSIS THALLANA IN THE FIELD. Evolution; International Journal of Organic Evolution, 2005, 59, 740-757.	2.3	120
14	The Great Whirl: Observations of its seasonal development and interannual variability. Journal of Geophysical Research: Oceans, 2013, 118, 1-13.	2.6	120
15	Environmental and genetic influences on the germination of Arabidopsis thaliana in the field. Evolution; International Journal of Organic Evolution, 2005, 59, 740-57.	2.3	118
16	The effect of maternal photoperiod on seasonal dormancy in Arabidopsis thaliana (Brassicaceae). American Journal of Botany, 2001, 88, 1240-1249.	1.7	117
17	A new role for phytochromes in temperatureâ€dependent germination. New Phytologist, 2007, 174, 735-741.	7.3	110
18	Adjusting phenotypes via withinâ€and acrossâ€generational plasticity. New Phytologist, 2017, 216, 343-349.	7.3	105

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19	NICHE CONSTRUCTION THROUGH GERMINATION CUEING: LIFE-HISTORY RESPONSES TO TIMING OF GERMINATION IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2005, 59, 771-785.	2.3	99
20	Seeds and seasons: interpreting germination timing in the field. Seed Science Research, 2005, 15, 175-187.	1.7	94
21	Modeling the Influence of Genetic and Environmental Variation on the Expression of Plant Life Cycles across Landscapes. American Naturalist, 2015, 185, 212-227.	2.1	94
22	Mapping Circulation in the Kuroshio Extension with an Array of Current and Pressure Recording Inverted Echo Sounders. Journal of Atmospheric and Oceanic Technology, 2010, 27, 507-527.	1.3	91
23	Setting the Stage: Phenotypic Plasticity as Habitat Selection. International Journal of Plant Sciences, 2003, 164, S79-S92.	1.3	90
24	The evolutionary ecology of seed germination of Arabidopsis thaliana: variable natural selection on germination timing. Evolution; International Journal of Organic Evolution, 2005, 59, 758-70.	2.3	88
25	Diversification of phytochrome contributions to germination as a function of seedâ€maturation environment. New Phytologist, 2008, 177, 367-379.	7.3	86
26	Local adaptation and plasticity of Erysimum capitatum to altitude: its implications for responses to climate change. Journal of Ecology, 2013, 101, 796-805.	4.0	86
27	Observations of the Subtropical Mode Water Evolution from the Kuroshio Extension System Study. Journal of Physical Oceanography, 2006, 36, 457-473.	1.7	85
28	THE GENETIC ARCHITECTURE OF PLASTICITY TO DENSITY IN IMPATIENS CAPENSIS. Evolution; International Journal of Organic Evolution, 1999, 53, 1377-1386.	2.3	83
29	Understanding Evolutionary Impacts of Seasonality: An Introduction to the Symposium. Integrative and Comparative Biology, 2017, 57, 921-933.	2.0	82
30	The Influence of Neighbor Relatedness on Multilevel Selection in the Great Lakes Sea Rocket. American Naturalist, 2003, 162, 77-92.	2.1	78
31	Loop Current Eddy formation and baroclinic instability. Dynamics of Atmospheres and Oceans, 2016, 76, 195-216.	1.8	75
32	DENSITY DEPENDENCE AND POPULATION DIFFERENTIATION OF GENETIC ARCHITECTURE IN IMPATIENS CAPENSIS IN NATURAL ENVIRONMENTS. Evolution; International Journal of Organic Evolution, 2000, 54, 1969-1981.	2.3	74
33	Multiple paths to similar germination behavior in Arabidopsis thaliana. New Phytologist, 2016, 209, 1301-1312.	7.3	74
34	Densityâ€dependent processes influencing the evolutionary dynamics of dispersal: a functional analysis of seed dispersal inArabidopsis thaliana(Brassicaceae). American Journal of Botany, 2005, 92, 960-971.	1.7	67
35	On the longâ€term stability of Gulf Stream transport based on 20â€‰years of direct measurements. Geophysical Research Letters, 2014, 41, 114-120.	4.0	65
36	WHY ONTOGENY MATTERS DURING ADAPTATION: DEVELOPMENTAL NICHE CONSTRUCTION AND PLEIOTORPY ACROSS THE LIFE CYCLE INARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2014, 68, 32-47.	2.3	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.	7.1	58
38	Genetic Basis and Consequences of Niche Construction: Plasticityâ€Induced Genetic Constraints on the Evolution of Seed Dispersal inArabidopsis thaliana. American Naturalist, 2005, 165, 537-550.	2.1	57
39	Phytochrome mediates germination responses to multiple seasonal cues. Plant, Cell and Environment, 2007, 30, 202-212.	5.7	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.	1.7	57
41	Baroclinic Transport Time Series of the Antarctic Circumpolar Current Measured in Drake Passage. Journal of Physical Oceanography, 2014, 44, 1829-1853.	1.7	56
42	Strong bottom currents and cyclogenesis in Drake Passage. Geophysical Research Letters, 2009, 36, .	4.0	51
43	Applying developmental threshold models to evolutionary ecology. Trends in Ecology and Evolution, 2015, 30, 66-77.	8.7	50
44	Pleiotropy in developmental regulation by floweringâ€pathway genes: is it an evolutionary constraint?. New Phytologist, 2019, 224, 55-70.	7.3	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.	1.2	47
47	Seed afterâ€ripening and dormancy determine adult life history independently of germination timing. New Phytologist, 2012, 194, 868-879.	7.3	43
48	Gulf of Mexico Loop Current path variability. Dynamics of Atmospheres and Oceans, 2016, 76, 174-194.	1.8	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, .	4.0	40
51	Diversification and the evolution of dispersal ability in the tribe Brassiceae (Brassicaceae). Annals of Botany, 2014, 114, 1675-1686.	2.9	39
52	Secondary dormancy dynamics depends on primary dormancy status inArabidopsis thaliana. Seed Science Research, 2015, 25, 230-246.	1.7	39
53	New Roles of Phytochromes during Seed Germination. International Journal of Plant Sciences, 2008, 169, 531-540.	1.3	34
54	Divergent Eddy Heat Fluxes in the Kuroshio Extension at 144Â°â€“148Â°E. Part I: Mean Structure. Journal of Physical Oceanography, 2013, 43, 1533-1550.	1.7	33

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55	Niche construction through germination cueing: life-history responses to timing of germination in Arabidopsis thaliana. Evolution; International Journal of Organic Evolution, 2005, 59, 771-85.	2.3	33
56	Maternal vernalization and vernalizationâ€pathway genes influence progeny seed germination. New Phytologist, 2017, 216, 388-400.	7.3	30
57	DENSITY-DEPENDENT MULTILEVEL SELECTION IN THE GREAT LAKES SEA ROCKET. Ecology, 2004, 85, 180-191.	3.2	28
58	Demographic, developmental and life-history variation across altitude in Erysimum capitatum. Journal of Ecology, 2011, 99, 1237-1249.	4.0	25
59	Propagation of Kuroshio Extension Meanders between 143Â° and 149Â°E. Journal of Physical Oceanography, 2012, 42, 581-601.	1.7	25
60	Contrasting germination responses to vegetative canopies experienced in pre- vs. post-dispersal environments. Annals of Botany, 2016, 118, 1175-1186.	2.9	24
61	ADAPTIVE DIVERGENCE IN PLASTICITY IN NATURAL POPULATIONS OF IMPATIENS CAPENSIS AND ITS CONSEQUENCES FOR PERFORMANCE IN NOVEL HABITATS. Evolution; International Journal of Organic Evolution, 2001, 55, 692-702.	2.3	23
62	cDrake: Dynamics and Transport of the Antarctic Circumpolar Current in Drake Passage. Oceanography, 2012, 25, 134-135.	1.0	23
63	A cline in seed dormancy helps conserve the environment experienced during reproduction across the range of Arabidopsis thaliana. American Journal of Botany, 2016, 103, 47-59.	1.7	23
64	Eddy heat flux across the <scp>A</scp>ntarctic <scp>C</scp>ircumpolar <scp>C</scp>urrent estimated from sea surface height standard deviation. Journal of Geophysical Research: Oceans, 2017, 122, 6947-6964.	2.6	22
65	The fitness benefits of germinating later than neighbors. American Journal of Botany, 2018, 105, 20-30.	1.7	22
66	The Gulf Stream's path and time-averaged velocity structure and transport at 68.5Â°W and 70.3Â°W. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 156, 103179.	1.4	22
67	Comparisons of sea surface height variability observed by pressure-recording inverted echo sounders and satellite altimetry in the Kuroshio Extension. Journal of Oceanography, 2012, 68, 401-416.	1.7	20
68	THE EPIGENETICS OF ADAPTATION: FOCUSING ON EPIGENETIC STABILITY AS AN EVOLVING TRAIT. Evolution; International Journal of Organic Evolution, 2014, 68, 617-619.	2.3	20
69	Maternal temperature effects on dormancy influence germination responses to water availability in Arabidopsis thaliana. Environmental and Experimental Botany, 2016, 126, 55-67.	4.2	19
70	Genotypic variation in the persistence of transgenerational responses to seasonal cues*. Evolution; International Journal of Organic Evolution, 2020, 74, 2265-2280.	2.3	17
71	Within- and trans-generational plasticity: seed germination responses to light quantity and quality. AoB PLANTS, 2018, 10, ply023.	2.3	16
72	PHYD prevents secondary dormancy establishment of seeds exposed to high temperature and is associated with lower PIL5 accumulation. Journal of Experimental Botany, 2018, 69, 3157-3169.	4.8	16

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73	Antarctic Circumpolar Current Transport Through Drake Passage: What Can We Learn From Comparing Highâ€Resolution Model Results to Observations?. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016365.	2.6	16
74	Estimates of Eddy Heat Flux Crossing the Antarctic Circumpolar Current from Observations in Drake Passage. Journal of Physical Oceanography, 2016, 46, 2103-2122.	1.7	15
75	Photoperiod throughout the maternal life cycle, not photoperiod during seed imbibition, influences germination in Arabidopsis thaliana. American Journal of Botany, 2017, 104, 516-526.	1.7	14
76	The Polar Front in <scp>D</scp>rake <scp>P</scp>assage: A compositeâ€mean streamâ€coordinate view. Journal of Geophysical Research: Oceans, 2016, 121, 1771-1788.	2.6	13
77	Three-dimensional model-observation comparison in the Loop Current region. Dynamics of Atmospheres and Oceans, 2016, 76, 283-305.	1.8	13
78	Effect of FLOWERING LOCUS C on seed germination depends on dormancy. Functional Plant Biology, 2017, 44, 493.	2.1	13
79	Distribution of deep near-inertial waves observed in the Kuroshio Extension. Journal of Oceanography, 2010, 66, 709-717.	1.7	12
80	Can the Environment have a Genetic Basis? A Case Study of Seedling Establishment in Arabidopsis thaliana. Journal of Heredity, 2019, 110, 467-478.	2.4	12
81	Air pressure effects on sea level changes during the twentieth century. Journal of Geophysical Research: Oceans, 2016, 121, 7917-7930.	2.6	11
82	Effects of preâ€and postâ€dispersal temperature on primary and secondary dormancy dynamics in contrasting genotypes of A rabidopsis thaliana (B rassicaceae). Plant Species Biology, 2017, 32, 210-222.	1.0	11
83	Elevation filters seed traits and germination strategies in the eastern Tibetan Plateau. Ecography, 2021, 44, 242-254.	4.5	11
84	Seafloor Geodetic Pressure Measurements to Detect Shallow Slow Slip Events: Methods to Remove Contributions From Ocean Water. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020065.	3.4	11
85	Canalization of Seasonal Phenology in the Presence of Developmental Variation: Seed Dormancy Cycling in an Annual Weed. Integrative and Comparative Biology, 2017, 57, 1021-1039.	2.0	10
86	Genetic differences in the temporal and environmental stability of transgenerational environmental effects. Evolution; International Journal of Organic Evolution, 2021, 75, 2773-2790.	2.3	10
87	Sea Surface Height Variability in Drake Passage. Journal of Atmospheric and Oceanic Technology, 2016, 33, 669-683.	1.3	9
88	Maternal effects alter natural selection on phytochromes through seed germination. Journal of Ecology, 2012, 100, 750-757.	4.0	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. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1422-1433.	1.3	8
90	Near 13 day barotropic ocean response to the atmospheric forcing in the North Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	7

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91	Four Current Meter Models Compared in Strong Currents in Drake Passage. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2465-2477.	1.3	7
92	Evaluation of Thermosalinograph and VIIRS Data for the Characterization of Near-Surface Temperature Fields. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1843-1858.	1.3	7
93	Autonomous Wintertime Observations of Airâ€Sea Exchange in the Gulf Stream Reveal a Perfect Storm for Ocean CO₂ Uptake. Geophysical Research Letters, 2022, 49, .	4.0	7
94	The effect of plant architecture on drought resistance: implications for the evolution of semelparity in Erysimum capitatum. Functional Ecology, 2012, 26, 294-303.	3.6	6
95	The evolution of intrinsic reproductive isolation in the genus Cakile (Brassicaceae). Journal of Evolutionary Biology, 2017, 30, 361-376.	1.7	6
96	Five yearsâ€™ central pacific sea level from in situ array, satellite altimeter and numerical model: Research note. Atmosphere - Ocean, 1994, 32, 495-506.	1.6	5
97	Some Evolutionary Consequences of Niche Construction with Genotype-Environment Interaction. , 2009, , 131-149.		4
98	Genetic Consequences of Biologically Altered Environments. Journal of Heredity, 2022, 113, 26-36.	2.4	4
99	Genotype-by-Environment Interaction. , 2016, , 186-194.		3
100	Divergence in How Genetic Pathways Respond to Environments. Trends in Plant Science, 2017, 22, 817-819.	8.8	3
101	Bottom Temperatures in Drake Passage. Journal of Physical Oceanography, 2017, 47, 101-122.	1.7	3
102	The Scientific and Societal Uses of Global Measurements of Subsurface Velocity. Frontiers in Marine Science, 2019, 6, .	2.5	3
103	Gene duplication and the environmental regulation of physiology and development. Ecology and Evolution, 2014, 4, 2202-2216.	1.9	2
104	Challenges of Measuring Abyssal Temperature and Salinity at the Kuroshio Extension Observatory. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1999-2014.	1.3	2
105	Multiâ€tasking as an ancient skill: When one gene does many things well. Molecular Ecology, 2019, 28, 917-919.	3.9	1
106	Explaining the worldwide distributions of two highly mobile species: Cakile edentula and Cakile maritima. Journal of Biogeography, 2021, 48, 603-615.	3.0	1
107	The effect of seed-dispersal timing on seedling recruitment is modulated by environmental conditions that vary across altitude in a threatened palm. Annals of Botany, 2022, , .	2.9	1
108	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	4.0	0

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109	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	4.0	0
110	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	4.0	0
111	Thank You to Our 2021 Peer Reviewers. Geophysical Research Letters, 2022, 49, .	4.0	0