

Peter Franks

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

4,101
citations

33
h-index

63
g-index

85
ext. papers

4,823
ext. citations

4
avg, IF

5.62
L-index

#	Paper	IF	Citations
82	North Pacific Gyre Oscillation links ocean climate and ecosystem change. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	703
81	Bringing physics to life at the submesoscale. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	265
80	Biological Impacts of the 2013-2015 Warm-Water Anomaly in the Northeast Pacific: Winners, Losers, and the Future. <i>Oceanography</i> , 2016 , 29,	2.3	258
79	Swimming against the flow: a mechanism of zooplankton aggregation. <i>Science</i> , 2005 , 308, 860-2	33.3	175
78	NPZ Models of Plankton Dynamics: Their Construction, Coupling to Physics, and Application. <i>Journal of Oceanography</i> , 2002 , 58, 379-387	1.9	173
77	Behavior of a simple plankton model with food-level acclimation by herbivores. <i>Marine Biology</i> , 1986 , 91, 121-129	2.5	169
76	Alongshore transport of a toxic phytoplankton bloom in a buoyancy current: Alexandrium tamarensis in the Gulf of Maine. <i>Marine Biology</i> , 1992 , 112, 153-164	2.5	120
75	Physical-biological sources for dense algal blooms near the Changjiang River. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	110
74	The role of submesoscale currents in structuring marine ecosystems. <i>Nature Communications</i> , 2018 , 9, 4758	17.4	110
73	Plankton production in tidal fronts: A model of Georges Bank in summer. <i>Journal of Marine Research</i> , 1996 , 54, 631-651	1.5	101
72	Phytoplankton patches at fronts: A model of formation and response to wind events. <i>Journal of Marine Research</i> , 1997 , 55, 1-29	1.5	96
71	A hierarchy of conceptual models of red-tide generation: Nutrition, behavior, and biological interactions. <i>Harmful Algae</i> , 2015 , 47, 97-115	5.3	93
70	Nutrient and salinity decadal variations in the central and eastern North Pacific. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	93
69	Models of harmful algal blooms. <i>Limnology and Oceanography</i> , 1997 , 42, 1273-1282	4.8	81
68	Spatial patterns in dense algal blooms. <i>Limnology and Oceanography</i> , 1997 , 42, 1297-1305	4.8	81
67	Planktonic ecosystem models: perplexing parameterizations and a failure to fail. <i>Journal of Plankton Research</i> , 2009 , 31, 1299-1306	2.2	72
66	Thin layers of phytoplankton: a model of formation by near-inertial wave shear. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995 , 42, 75-91	2.5	69

65	Has Sverdrup's critical depth hypothesis been tested? Mixed layers vs. turbulent layers. <i>ICES Journal of Marine Science</i> , 2015 , 72, 1897-1907	2.7	68
64	Modeling phytoplankton growth rates and chlorophyll to carbon ratios in California coastal and pelagic ecosystems. <i>Journal of Geophysical Research</i> , 2010 , 115,		61
63	Toxic phytoplankton blooms in the southwestern Gulf of Maine: testing hypotheses of physical control using historical data. <i>Marine Biology</i> , 1992 , 112, 165-174	2.5	61
62	A swarm of autonomous miniature underwater robot drifters for exploring submesoscale ocean dynamics. <i>Nature Communications</i> , 2017 , 8, 14189	17.4	60
61	Size-structured planktonic ecosystems: constraints, controls and assembly instructions. <i>Journal of Plankton Research</i> , 2010 , 32, 1121-1130	2.2	59
60	Horizontal internal-tide fluxes support elevated phytoplankton productivity over the inner continental shelf. <i>Limnology & Oceanography Fluids & Environments</i> , 2011 , 1, 56-74		54
59	A 3-D prognostic numerical model study of the Georges bank ecosystem. Part II: biological/physical model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 48, 457-482	2.3	54
58	Physical and biological processes underlying the sudden surface appearance of a red tide in the nearshore. <i>Limnology and Oceanography</i> , 2011 , 56, 787-801	4.8	49
57	Enhanced nitrate fluxes and biological processes at a frontal zone in the southern California current system. <i>Journal of Plankton Research</i> , 2012 , 34, 790-801	2.2	47
56	The green ribbon: Multiscale physical control of phytoplankton productivity and community structure over a narrow continental shelf. <i>Limnology and Oceanography</i> , 2011 , 56, 611-626	4.8	47
55	Thin layers of plankton: Formation by shear and death by diffusion. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008 , 55, 277-295	2.5	44
54	Enhanced silica ballasting from iron stress sustains carbon export in a frontal zone within the California Current. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 4654-4669	3.3	42
53	A 3-D prognostic numerical model study of the Georges Bank ecosystem. Part I: physical model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 48, 419-456	2.3	41
52	Inhibition of growth rate and swimming speed of the harmful dinoflagellate <i>Cochlodinium polykrikoides</i> by diatoms: Implications for red tide formation. <i>Harmful Algae</i> , 2014 , 37, 53-61	5.3	34
51	Turbulence avoidance: An alternate explanation of turbulence-enhanced ingestion rates in the field. <i>Limnology and Oceanography</i> , 2001 , 46, 959-963	4.8	33
50	Simultaneous Imaging of Phytoplankton and Zooplankton Distributions. <i>Oceanography</i> , 1998 , 11, 24-29	2.3	33
49	Ecological Transitions in a Coastal Upwelling Ecosystem. <i>Oceanography</i> , 2013 , 26, 210-219	2.3	30
48	TEMPORAL PATTERNS IN POPULATION GENETIC DIVERSITY OF PROROCENTRUM MICANS (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 2004 , 40, 239-247	3	29

47	When Mixed Layers Are Not Mixed. Storm-Driven Mixing and Bio-optical Vertical Gradients in Mixed Layers of the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 7264-7289	3.3	29
46	Microscale variability in the distributions of large fluorescent particles observed in situ with a planar laser imaging fluorometer. <i>Journal of Marine Systems</i> , 2008 , 69, 254-270	2.7	27
45	Physical and biological controls of vertical gradients in phytoplankton. <i>Limnology & Oceanography Fluids & Environments</i> , 2011 , 1, 75-90		26
44	Larval Atlantic cod (<i>Gadus morhua</i>) and haddock (<i>Melanogrammus aeglefinus</i>) growth on Georges Bank: a model with temperature, prey size, and turbulence forcing. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999 , 56, 25-36	2.4	25
43	Cryptic peaks: invisible vertical structure in fluorescent particles revealed using a planar laser imaging fluorometer. <i>Limnology and Oceanography</i> , 2010 , 55, 1943-1958	4.8	24
42	Timing is everything: Drivers of interannual variability in blue whale migration. <i>Scientific Reports</i> , 2020 , 10, 7710	4.9	22
41	Episodic vertical nutrient fluxes and nearshore phytoplankton blooms in Southern California. <i>Limnology and Oceanography</i> , 2012 , 57, 1673-1688	4.8	21
40	BACTERIA-INDUCED MOTILITY REDUCTION IN LINGULODINIUM POLYEDRUM (DINOPHYCEAE)(1). <i>Journal of Phycology</i> , 2008 , 44, 923-8	3	21
39	Plankton dynamics in a cyclonic eddy in the Southern California Current System. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 5566-5588	3.3	19
38	Influence of diurnal heating on stratification and residual circulation of Georges Bank. <i>Journal of Geophysical Research</i> , 2003 , 108,		19
37	Spring phytoplankton bloom and associated lower trophic level food web dynamics on Georges Bank: 1-D and 2-D model studies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 2656-2683	2.3	18
36	The impact of Scotian Shelf Water cross-over on the plankton dynamics on Georges Bank: A 3-D experiment for the 1999 spring bloom. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 2684-2707	2.3	17
35	Biogeochemical properties of eddies in the California Current System. <i>Geophysical Research Letters</i> , 2016 , 43, 5812-5820	4.9	16
34	An Autonomous Open-Ocean Stereoscopic PIV Profiler. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 1362-1380	2	15
33	Crossing the line: Tunas actively exploit submesoscale fronts to enhance foraging success. <i>Limnology and Oceanography Letters</i> , 2017 , 2, 187-194	7.9	13
32	The Scripps Plankton Camera system: A framework and platform for in situ microscopy. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 681-695	2.6	13
31	Model study of the cross-frontal water exchange on Georges Bank: A three-dimensional Lagrangian experiment. <i>Journal of Geophysical Research</i> , 2003 , 108,		13
30	Copepod feeding quantified by planar laser imaging of gut fluorescence. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 33-41	2.6	10

29	New models for the exploration of biological processes at fronts. <i>ICES Journal of Marine Science</i> , 1997 , 54, 161-167	2.7	10
28	Eddy properties in the Southern California Current System. <i>Ocean Dynamics</i> , 2018 , 68, 761-777	2.3	10
27	Reassessment of copepod grazing impact based on continuous time series of in vivo gut fluorescence from individual copepods. <i>Journal of Plankton Research</i> , 2012 , 34, 55-71	2.2	9
26	Influence of variability in larval development on recruitment success in the euphausiid <i>Euphausia pacifica</i> : elasticity and sensitivity analyses. <i>Marine Biology</i> , 1999 , 133, 283-291	2.5	9
25	Recovering growth and grazing rates from nonlinear dilution experiments. <i>Limnology and Oceanography</i> , 2017 , 62, 1825-1835	4.8	8
24	Environmental drivers of population variability in colony-forming marine diatoms. <i>Limnology and Oceanography</i> , 2020 , 65, 2515-2528	4.8	8
23	Vertical distributions of Japanese sardine (<i>Sardinops melanostictus</i>) eggs: comparison of observations and a wind-forced Lagrangian mixing model. <i>Fisheries Oceanography</i> , 2008 , 17, 89-100	2.4	8
22	Frontogenesis and the Creation of Fine-Scale Vertical Phytoplankton Structure. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 1509-1523	3.3	7
21	Recent Advances in Modelling of Harmful Algal Blooms. <i>Ecological Studies</i> , 2018 , 359-377	1.1	7
20	A pseudo-Lagrangian method for remapping ocean biogeochemical tracer data: Calculation of net Chl-a growth rates. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 4962-4979	3.3	7
19	Stokes drift of plankton in linear internal waves: Cross-shore transport of neutrally buoyant and depth-keeping organisms. <i>Limnology and Oceanography</i> , 2020 , 65, 1286-1296	4.8	6
18	Smoothed estimation of unknown inputs and states in dynamic systems with application to oceanic flow field reconstruction. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015 , 29, 1224-1242	2.8	5
17	Semi- and fully supervised quantification techniques to improve population estimates from machine classifiers. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 739-753	2.6	5
16	A view of physical mechanisms for transporting harmful algal blooms to Massachusetts Bay. <i>Marine Pollution Bulletin</i> , 2020 , 154, 111048	6.7	5
15	The importance of environment and life stage on interpretation of silky shark relative abundance indices for the equatorial Pacific Ocean. <i>Fisheries Oceanography</i> , 2019 , 28, 43-53	2.4	4
14	Estimating size-dependent growth and grazing rates and their associated errors using the dilution method. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 868-881	2.6	4
13	Influence of bubbles and sand on chlorophyll-a fluorescence measurements in the surfzone. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 354-362	2.6	4
12	Oceanic turbulence from a planktonic perspective. <i>Limnology and Oceanography</i> , 2022 , 67, 348-363	4.8	4

11	A novel cross-shore transport mechanism revealed by subsurface, robotic larval mimics: Internal wave deformation of the background velocity field. <i>Limnology and Oceanography</i> , 2020 , 65, 1456-1470	4.8	3
10	Skill assessment via cross-validation and Monte Carlo simulation: An application to Georges Bank plankton models. <i>Journal of Marine Systems</i> , 2009 , 76, 134-150	2.7	3
9	AUE: An Autonomous Float for Monitoring the Upper Water Column 2007 ,		3
8	Comparing Vertical Distributions of Chl-a Fluorescence, Marine Snow, and Taxon-Specific Zooplankton in Relation to Density Using High-Resolution Optical Measurements. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	3
7	Deformation of ambient chemical gradients by sinking spheres. <i>Journal of Fluid Mechanics</i> , 2020 , 892,	3.7	2
6	The California Undercurrent as a Source of Upwelled Waters in a Coastal Filament. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016602	3.3	2
5	Larval cross-shore transport estimated from internal waves with a background flow: The effects of larval vertical position and depth regulation. <i>Limnology and Oceanography</i> , 2021 , 66, 678-693	4.8	1
4	An ultraviolet dyegraph for measuring the chemical disturbances of sinking particles and swimming plankton. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 707-716	2.6	
3	Estimation of In Situ 3-D Particle Distributions From a Stereo Laser Imaging Profiler. <i>IEEE Journal of Oceanic Engineering</i> , 2011 , 36, 586-601	3.3	
2	Reply to Buckley et al.'s "Comment: Larval Atlantic cod and haddock growth models, metabolism, ingestion, and temperature effects". <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000 , 57, 1961-1963	2.4	
1	A Pseudo-Lagrangian Transformation to Study a Chlorophyll-a Patch in the R� de Vigo (NW Iberian Peninsula). <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017455	3.3	