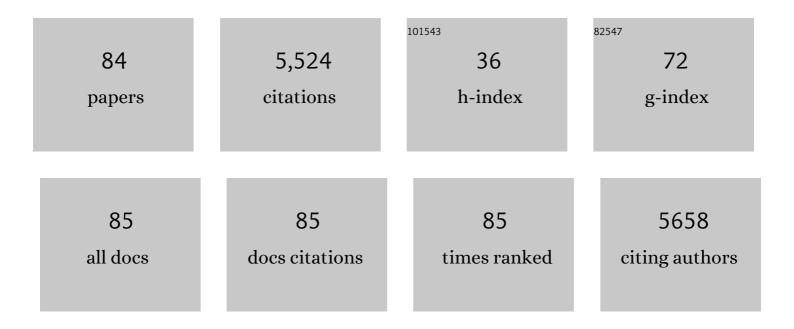
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | North Pacific Gyre Oscillation links ocean climate and ecosystem change. Geophysical Research Letters, 2008, 35, . | 4.0 | 882 |
| 2 | Biological Impacts of the 2013–2015 Warm-Water Anomaly in the Northeast Pacific: Winners, Losers, and the Future. Oceanography, 2016, 29, . | 1.0 | 434 |
| 3 | Bringing physics to life at the submesoscale. Geophysical Research Letters, 2012, 39, . | 4.0 | 327 |
| 4 | The role of submesoscale currents in structuring marine ecosystems. Nature Communications, 2018, 9, 4758. | 12.8 | 234 |
| 5 | NPZ Models of Plankton Dynamics: Their Construction, Coupling to Physics, and Application. Journal of Oceanography, 2002, 58, 379-387. | 1.7 | 223 |
| 6 | Swimming Against the Flow: A Mechanism of Zooplankton Aggregation. Science, 2005, 308, 860-862. | 12.6 | 213 |
| 7 | Behavior of a simple plankton model with food-level acclimation by herbivores. Marine Biology, 1986, 91, 121-129. | 1.5 | 190 |
| 8 | Alongshore transport of a toxic phytoplankton bloom in a buoyancy current: Alexandrium tamarense in the Gulf of Maine. Marine Biology, 1992, 112, 153-164. | 1.5 | 139 |
| 9 | A swarm of autonomous miniature underwater robot drifters for exploring submesoscale ocean dynamics. Nature Communications, 2017, 8, 14189. | 12.8 | 137 |
| 10 | Physical-biological sources for dense algal blooms near the Changjiang River. Geophysical Research Letters, 2003, 30, n/a-n/a. | 4.0 | 135 |
| 11 | A hierarchy of conceptual models of red-tide generation: Nutrition, behavior, and biological interactions. Harmful Algae, 2015, 47, 97-115. | 4.8 | 120 |
| 12 | Plankton production in tidal fronts: A model of Georges Bank in summer. Journal of Marine Research, 1996, 54, 631-651. | 0.3 | 116 |
| 13 | Spatial patterns in dense algal blooms. Limnology and Oceanography, 1997, 42, 1297-1305. | 3.1 | 113 |
| 14 | Nutrient and salinity decadal variations in the central and eastern North Pacific. Geophysical Research Letters, 2009, 36, . | 4.0 | 111 |
| 15 | Phytoplankton patches at fronts: A model of formation and response to wind events. Journal of Marine Research, 1997, 55, 1-29. | 0.3 | 107 |
| 16 | Models of harmful algal blooms. Limnology and Oceanography, 1997, 42, 1273-1282. | 3.1 | 103 |
| 17 | Thin layers of phytoplankton: a model of formation by near-inertial wave shear. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 75-91. | 1.4 | 98 |
| 18 | Planktonic ecosystem models: perplexing parameterizations and a failure to fail. Journal of Plankton Research. 2009. 31. 1299-1306. | 1.8 | 88 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Has Sverdrup's critical depth hypothesis been tested? Mixed layers vs. turbulent layers. ICES Journal of Marine Science, 2015, 72, 1897-1907. | 2.5 | 83 |
| 20 | Size-structured planktonic ecosystems: constraints, controls and assembly instructions. Journal of Plankton Research, 2010, 32, 1121-1130. | 1.8 | 77 |
| 21 | Modeling phytoplankton growth rates and chlorophyll to carbon ratios in California coastal and pelagic ecosystems. Journal of Geophysical Research, 2010, 115, . | 3.3 | 71 |
| 22 | Toxic phytoplankton blooms in the southwestern Gulf of Maine: testing hypotheses of physical control using historical data. Marine Biology, 1992, 112, 165-174. | 1.5 | 64 |
| 23 | Enhanced silica ballasting from iron stress sustains carbon export in a frontal zone within the California Current. Journal of Geophysical Research: Oceans, 2015, 120, 4654-4669. | 2.6 | 64 |
| 24 | A 3-D prognostic numerical model study of the Georges bank ecosystem. Part II: biological–physical model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 457-482. | 1.4 | 63 |
| 25 | Horizontal internalâ€ŧide fluxes support elevated phytoplankton productivity over the inner continental shelf. Limnology & Oceanography Fluids & Environments, 2011, 1, 56-74. | 1.7 | 63 |
| 26 | Enhanced nitrate fluxes and biological processes at a frontal zone in the southern California current system. Journal of Plankton Research, 2012, 34, 790-801. | 1.8 | 59 |
| 27 | The green ribbon: Multiscale physical control of phytoplankton productivity and community structure over a narrow continental shelf. Limnology and Oceanography, 2011, 56, 611-626. | 3.1 | 58 |
| 28 | Physical and biological processes underlying the sudden surface appearance of a red tide in the nearshore. Limnology and Oceanography, 2011, 56, 787-801. | 3.1 | 56 |
| 29 | Thin layers of plankton: Formation by shear and death by diffusion. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 277-295. | 1.4 | 55 |
| 30 | The Scripps Plankton Camera system: A framework and platform for in situ microscopy. Limnology and Oceanography: Methods, 2020, 18, 681-695. | 2.0 | 51 |
| 31 | Timing is everything: Drivers of interannual variability in blue whale migration. Scientific Reports, 2020, 10, 7710. | 3.3 | 49 |
| 32 | Turbulence avoidance: An alternate explanation of turbulence-enhanced ingestion rates in the field. Limnology and Oceanography, 2001, 46, 959-963. | 3.1 | 47 |
| 33 | When Mixed Layers Are Not Mixed. Stormâ€Driven Mixing and Bioâ€optical Vertical Gradients in Mixed Layers of the Southern Ocean. Journal of Geophysical Research: Oceans, 2018, 123, 7264-7289. | 2.6 | 47 |
| 34 | A 3-D prognostic numerical model study of the Georges Bank ecosystem. Part I: physical model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 419-456. | 1.4 | 46 |
| 35 | Inhibition of growth rate and swimming speed of the harmful dinoflagellate Cochlodinium polykrikoides by diatoms: Implications for red tide formation. Harmful Algae, 2014, 37, 53-61. | 4.8 | 40 |
| 36 | Simultaneous Imaging of Phytoplankton and Zooplankton Distributions. Oceanography, 1998, 11, 24-29. | 1.0 | 40 |

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|----|---|-----|-----------|
| 37 | Ecological Transitions in a Coastal Upwelling Ecosystem. Oceanography, 2013, 26, 210-219. | 1.0 | 38 |
| 38 | TEMPORAL PATTERNS IN POPULATION GENETIC DIVERSITY OF PROROCENTRUM MICANS (DINOPHYCEAE)1. Journal of Phycology, 2004, 40, 239-247. | 2.3 | 34 |
| 39 | Episodic vertical nutrient fluxes and nearshore phytoplankton blooms in Southern California. Limnology and Oceanography, 2012, 57, 1673-1688. | 3.1 | 34 |
| 40 | Microscale variability in the distributions of large fluorescent particles observed in situ with a planar laser imaging fluorometer. Journal of Marine Systems, 2008, 69, 254-270. | 2.1 | 33 |
| 41 | Larval Atlantic cod (Gadus morhua) and haddock (Melanogrammus aeglefinus) growth on Georges Bank: a model with temperature, prey size, and turbulence forcing. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 25-36. | 1.4 | 32 |
| 42 | Physical and biological controls of vertical gradients in phytoplankton. Limnology & Oceanography Fluids & Environments, 2011, 1, 75-90. | 1.7 | 31 |
| 43 | Plankton dynamics in a cyclonic eddy in the <scp>S</scp> outhern <scp>C</scp> alifornia <scp>C</scp> urrent <scp>S</scp> ystem. Journal of Geophysical Research: Oceans, 2015, 120, 5566-5588. | 2.6 | 30 |
| 44 | Cryptic peaks: invisible vertical structure in fluorescent particles revealed using a planar laser imaging fluorometer. Limnology and Oceanography, 2010, 55, 1943-1958. | 3.1 | 29 |
| 45 | Crossing the line: Tunas actively exploit submesoscale fronts to enhance foraging success. Limnology and Oceanography Letters, 2017, 2, 187-194. | 3.9 | 28 |
| 46 | BACTERIAâ€INDUCED MOTILITY REDUCTION IN <i>LINGULODINIUM POLYEDRUM</i> (DINOPHYCEAE) ¹ . Journal of Phycology, 2008, 44, 923-928. | 2.3 | 27 |
| 47 | Biogeochemical properties of eddies in the California Current System. Geophysical Research Letters, 2016, 43, 5812-5820. | 4.0 | 22 |
| 48 | Environmental drivers of population variability in colonyâ€forming marine diatoms. Limnology and Oceanography, 2020, 65, 2515-2528. | 3.1 | 21 |
| 49 | Influence of diurnal heating on stratification and residual circulation of Georges Bank. Journal of Geophysical Research, 2003, 108, . | 3.3 | 20 |
| 50 | Eddy properties in the Southern California Current System. Ocean Dynamics, 2018, 68, 761-777. | 2.2 | 20 |
| 51 | Semi―and fully supervised quantification techniques to improve population estimates from machine classifiers. Limnology and Oceanography: Methods, 2020, 18, 739-753. | 2.0 | 20 |
| 52 | The impact of Scotian Shelf Water "cross-over―on the plankton dynamics on Georges Bank: A 3-D experiment for the 1999 spring bloom. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 2684-2707. | 1.4 | 19 |
| 53 | Spring phytoplankton bloom and associated lower trophic level food web dynamics on Georges Bank: 1-D and 2-D model studies. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 2656-2683. | 1.4 | 19 |
| 54 | An Autonomous Open-Ocean Stereoscopic PIV Profiler. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1362-1380. | 1.3 | 18 |

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|----|--|-----|-----------|
| 55 | Recent Advances in Modelling of Harmful Algal Blooms. Ecological Studies, 2018, , 359-377. | 1.2 | 17 |
| 56 | Oceanic turbulence from a planktonic perspective. Limnology and Oceanography, 2022, 67, 348-363. | 3.1 | 16 |
| 57 | Model study of the cross-frontal water exchange on Georges Bank: A three-dimensional Lagrangian experiment. Journal of Geophysical Research, 2003, 108, . | 3.3 | 15 |
| 58 | Frontogenesis and the Creation of Fineâ€Scale Vertical Phytoplankton Structure. Journal of Geophysical Research: Oceans, 2019, 124, 1509-1523. | 2.6 | 14 |
| 59 | Comparing Vertical Distributions of Chl-a Fluorescence, Marine Snow, and Taxon-Specific Zooplankton in Relation to Density Using High-Resolution Optical Measurements. Frontiers in Marine Science, 2020, 7, . | 2.5 | 14 |
| 60 | New models for the exploration of biological processes at fronts. ICES Journal of Marine Science, 1997, 54, 161-167. | 2.5 | 13 |
| 61 | A novel crossâ€shore transport mechanism revealed by subsurface, robotic larval mimics: Internal wave deformation of the background velocity field. Limnology and Oceanography, 2020, 65, 1456-1470. | 3.1 | 13 |
| 62 | Copepod feeding quantified by planar laser imaging of gut fluorescence. Limnology and Oceanography: Methods, 2009, 7, 33-41. | 2.0 | 12 |
| 63 | Influence of variability in larval development on recruitment success in the euphausiid Euphausia pacifica  : elasticity and sensitivity analyses. Marine Biology, 1999, 133, 283-291. | 1.5 | 11 |
| 64 | Vertical distributions of Japanese sardine (Sardinops melanostictus) eggs: comparison of observations and a wind-forced Lagrangian mixing model. Fisheries Oceanography, 2008, 17, 89-100. | 1.7 | 10 |
| 65 | A pseudo-Lagrangian method for remapping ocean biogeochemical tracer data: Calculation of net Chl-a growth rates. Journal of Geophysical Research: Oceans, 2015, 120, 4962-4979. | 2.6 | 10 |
| 66 | Recovering growth and grazing rates from nonlinear dilution experiments. Limnology and Oceanography, 2017, 62, 1825-1835. | 3.1 | 10 |
| 67 | Stokes drift of plankton in linear internal waves: Crossâ€shore transport of neutrally buoyant and depthâ€keeping organisms. Limnology and Oceanography, 2020, 65, 1286-1296. | 3.1 | 10 |
| 68 | Reassessment of copepod grazing impact based on continuous time series of in vivo gut fluorescence from individual copepods. Journal of Plankton Research, 2012, 34, 55-71. | 1.8 | 9 |
| 69 | The importance of environment and life stage on interpretation of silky shark relative abundance indices for the equatorial Pacific Ocean. Fisheries Oceanography, 2019, 28, 43-53. | 1.7 | 8 |
| 70 | A view of physical mechanisms for transporting harmful algal blooms to Massachusetts Bay. Marine Pollution Bulletin, 2020, 154, 111048. | 5.0 | 8 |
| 71 | The California Undercurrent as a Source of Upwelled Waters in a Coastal Filament. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016602. | 2.6 | 8 |
| 72 | Smoothed estimation of unknown inputs and states in dynamic systems with application to oceanic flow field reconstruction. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1224-1242. | 4.1 | 7 |

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|----|---|-----|-----------|
| 73 | Larval crossâ€shore transport estimated from internal waves with a background flow: The effects of larval vertical position and depth regulation. Limnology and Oceanography, 2021, 66, 678-693. | 3.1 | 7 |
| 74 | Influence of bubbles and sand on chlorophyll-afluorescence measurements in the surfzone. Limnology and Oceanography: Methods, 2009, 7, 354-362. | 2.0 | 6 |
| 75 | Deformation of ambient chemical gradients by sinking spheres. Journal of Fluid Mechanics, 2020, 892, . | 3.4 | 6 |
| 76 | Benchmarking and Automating the Image Recognition Capability of an In Situ Plankton Imaging System. Frontiers in Marine Science, 0, 9, . | 2.5 | 6 |
| 77 | Skill assessment via cross-validation and Monte Carlo simulation: An application to Georges Bank plankton models. Journal of Marine Systems, 2009, 76, 134-150. | 2.1 | 4 |
| 78 | Estimating size-dependent growth and grazing rates and their associated errors using the dilution method. Limnology and Oceanography: Methods, 2012, 10, 868-881. | 2.0 | 4 |
| 79 | AUE: An Autonomous Float for Monitoring the Upper Water Column. , 2007, , . | | 3 |
| 80 | Monthly to decadal variability of mesoscale stirring in the California Current System: Links To Upwelling, Climate Forcing, And Chlorophyll Transport Journal of Geophysical Research: Oceans, 0, , | 2.6 | 2 |
| 81 | Reply to Buckley et al.Â's "Comment: Larval Atlantic cod and haddock growth models, metabolism, ingestion, and temperature effects". Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 1961-1963. | 1.4 | 1 |
| 82 | Estimation of In Situ 3-D Particle Distributions From a Stereo Laser Imaging Profiler. IEEE Journal of Oceanic Engineering, 2011, 36, 586-601. | 3.8 | 0 |
| 83 | An ultraviolet dyegraph for measuring the chemical disturbances of sinking particles and swimming plankton. Limnology and Oceanography: Methods, 2020, 18, 707-716. | 2.0 | 0 |

A Pseudo‣agrangian Transformation to Study a Chlorophyllâ€a Patch in the RÃa de Vigo (NW Iberian) Tj ETQq0 0.0 rgBT /Overlock 10