

Mark D Ohman

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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.

134
papers

5,923
citations

45
h-index

72
g-index

142
ext. papers

7,142
ext. citations

4.4
avg, IF

6.15
L-index

#	Paper	IF	Citations
134	Digital zooplankton image analysis using the ZooScan integrated system. <i>Journal of Plankton Research</i> , 2010 , 32, 285-303	2.2	280
133	Long-term aging and degradation of microplastic particles: Comparing in situ oceanic and experimental weathering patterns. <i>Marine Pollution Bulletin</i> , 2016 , 110, 299-308	6.7	243
132	The Demographic Benefits of Diel Vertical Migration by Zooplankton. <i>Ecological Monographs</i> , 1990 , 60, 257-281	9	228
131	Trait-based approaches to zooplankton communities. <i>Journal of Plankton Research</i> , 2013 , 35, 473-484	2.2	201
130	Reverse diel vertical migration: an escape from invertebrate predators. <i>Science</i> , 1983 , 220, 1404-7	33.3	199
129	Analysis of abrupt transitions in ecological systems. <i>Ecosphere</i> , 2011 , 2, art129	3.1	196
128	Density-dependent mortality in an oceanic copepod population. <i>Nature</i> , 2001 , 412, 638-41	50.4	175
127	Sustained fecundity when phytoplankton resources are in short supply: Omnivory by <i>Calanus finmarchicus</i> in the Gulf of St. Lawrence. <i>Limnology and Oceanography</i> , 1994 , 39, 21-36	4.8	157
126	Planktonic foraminifera of the California Current reflect 20th-century warming. <i>Science</i> , 2006 , 311, 63-6	33.3	135
125	Lagrangian studies of phytoplankton growth and grazing relationships in a coastal upwelling ecosystem off Southern California. <i>Progress in Oceanography</i> , 2009 , 83, 208-216	3.8	129
124	Coherence of long-term variations of zooplankton in two sectors of the California Current System. <i>Progress in Oceanography</i> , 2007 , 75, 42-69	3.8	127
123	Planktivorous auklet <i>Ptychoramphus aleuticus</i> responses to ocean climate, 2005: Unusual atmospheric blocking?. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	126
122	Multidecadal increase in plastic particles in coastal ocean sediments. <i>Science Advances</i> , 2019 , 5, eaax0587	14.3	114
121	Synthesis of Pacific Ocean Climate and Ecosystem Dynamics. <i>Oceanography</i> , 2013 , 26, 68-81	2.3	110
120	A double-integration hypothesis to explain ocean ecosystem response to climate forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2496-9	11.5	97
119	Glider surveillance of physics and biology in the southern California Current System. <i>Limnology and Oceanography</i> , 2008 , 53, 2151-2168	4.8	91
118	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	88

117	Mesoscale ocean fronts enhance carbon export due to gravitational sinking and subduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1252-1257	11.5	85
116	Zooplankton anomalies in the California Current system before and during the warm ocean conditions of 2005. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	79
115	Stage-specific mortality of <i>Calanus</i> spp. under different predation regimes. <i>Limnology and Oceanography</i> , 2002 , 47, 636-645	4.8	79
114	Stage-specific mortality of <i>Calanus finmarchicus</i> , <i>Pseudocalanus elongatus</i> and <i>Oithona similis</i> on Fladen Ground, North Sea, during a spring bloom. <i>Marine Ecology - Progress Series</i> , 2004 , 268, 183-193	2.6	79
113	Long-term changes in pelagic tunicates of the California Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2473-2498	2.3	78
112	Robust empirical relationships for estimating the carbonate system in the southern California Current System and application to CalCOFI hydrographic cruise data (2005-2011). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		77
111	Estimation techniques used in studies of copepod population dynamics [A review of underlying assumptions. <i>Sarsia</i> , 1997 , 82, 279-296		72
110	Mesozooplankton and particulate matter responses to a deep-water frontal system in the southern California Current System. <i>Journal of Plankton Research</i> , 2012 , 34, 815-827	2.2	70
109	On birth and death in the sea. <i>Hydrobiologia</i> , 2002 , 480, 55-68	2.4	68
108	Large salp bloom export from the upper ocean and benthic community response in the abyssal northeast Pacific: Day to week resolution. <i>Limnology and Oceanography</i> , 2014 , 59, 745-757	4.8	67
107	Predator-limited population growth of the copepod <i>Pseudocalanus</i> sp.. <i>Journal of Plankton Research</i> , 1986 , 8, 673-713	2.2	66
106	Interannual variation in phytoplankton blooms and zooplankton productivity and abundance in the Gulf of Maine during winter. <i>Marine Ecology - Progress Series</i> , 2003 , 254, 81-100	2.6	64
105	Contributions of mesozooplankton to vertical carbon export in a coastal upwelling system. <i>Marine Ecology - Progress Series</i> , 2013 , 491, 47-65	2.6	62
104	Growth kinetics of the omnivorous oligotrich ciliate <i>Strombidium</i> sp. <i>Limnology and Oceanography</i> , 1991 , 36, 922-935	4.8	62
103	A vertical life table approach to zooplankton mortality estimation. <i>Limnology and Oceanography</i> , 1996 , 41, 1461-1469	4.8	59
102	A comparative study of <i>Calanus finmarchicus</i> mortality patterns at five localities in the North Atlantic. <i>ICES Journal of Marine Science</i> , 2004 , 61, 687-697	2.7	58
101	Omnivory by <i>Euphausia pacifica</i> : the role of copepod prey. <i>Marine Ecology - Progress Series</i> , 1984 , 19, 125-131	2.6	58
100	Pelagic community responses to a deep-water front in the California Current Ecosystem: overview of the A-Front Study. <i>Journal of Plankton Research</i> , 2012 , 34, 739-748	2.2	57

99	Biological responses to environmental forcing: the linear tracking window hypothesis. <i>Ecology</i> , 2006 , 87, 1932-8	4.6	56
98	Linking nitrogen dynamics to climate variability off central California: a 51 year record based on $^{15}\text{N}/^{14}\text{N}$ in CalCOFI zooplankton. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2431-2447	2.3	56
97	Changes in pteropod distributions and shell dissolution across a frontal system in the California Current System. <i>Marine Ecology - Progress Series</i> , 2015 , 523, 93-103	2.6	53
96	Differential dormancy of co-occurring copepods. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 1709-1740	2.3	51
95	Underwater gliders reveal rapid arrival of El Niño effects off California's coast. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	49
94	The GLOBEC Northeast Pacific California Current System Program. <i>Oceanography</i> , 2002 , 15, 36-47	2.3	49
93	Size-dependent visual predation risk and the timing of vertical migration in zooplankton. <i>Limnology and Oceanography</i> , 2000 , 45, 1838-1844	4.8	48
92	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
91	Zooglider: An autonomous vehicle for optical and acoustic sensing of zooplankton. <i>Limnology and Oceanography: Methods</i> , 2019 , 17, 69-86	2.6	47
90	Nonlinear effects of body size and optical attenuation on Diel Vertical Migration by zooplankton. <i>Limnology and Oceanography</i> , 2016 , 61, 765-770	4.8	45
89	Multi-decadal shoaling of the euphotic zone in the southern sector of the California Current System. <i>Limnology and Oceanography</i> , 2009 , 54, 1272-1281	4.8	43
88	CalCOFI in a Changing Ocean. <i>Oceanography</i> , 2003 , 16, 76-85	2.3	43
87	Covariability of zooplankton gradients with glider-detected density fronts in the Southern California Current System. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 79-90	2.3	41
86	Cross-shore transport variability in the California Current: Ekman upwelling vs. eddy dynamics. <i>Progress in Oceanography</i> , 2013 , 109, 78-89	3.8	39
85	Immunochemical Detection of Predation on Ciliate Protists by Larvae of the Northern Anchovy (<i>Engraulis mordax</i>). <i>Biological Bulletin</i> , 1991 , 181, 500-504	1.5	39
84	Energy sources for recruitment of the subantarctic copepod <i>Neocalanus tonsus</i> 1. <i>Limnology and Oceanography</i> , 1987 , 32, 1317-1330	4.8	36
83	Mortality estimation for planktonic copepods: <i>Pseudocalanus newmani</i> in a temperate fjord. <i>Limnology and Oceanography</i> , 1996 , 41, 126-135	4.8	35
82	Autonomous Ocean Measurements in the California Current Ecosystem. <i>Oceanography</i> , 2013 , 26, 18-25	2.3	34

81	Variability in diatom contributions to biomass, organic matter production and export across a frontal gradient in the California Current Ecosystem. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 1032-1047	3.3	33
80	Using Lagrangian-based process studies to test satellite algorithms of vertical carbon flux in the eastern North Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 7208-7222	3.3	30
79	Ecological Transitions in a Coastal Upwelling Ecosystem. <i>Oceanography</i> , 2013 , 26, 210-219	2.3	30
78	The inevitability of mortality. <i>ICES Journal of Marine Science</i> , 1995 , 52, 517-522	2.7	30
77	Advection and zooplankton fitness. <i>Sarsia</i> , 1998 , 83, 87-93		28
76	Sources of variability in measurements of copepod lipids and gut fluorescence in the California Current coastal zone. <i>Marine Ecology - Progress Series</i> , 1988 , 42, 143-153	2.6	28
75	Mystery behind Hitchcock's birds. <i>Nature Geoscience</i> , 2012 , 5, 2-3	18.3	27
74	OASIS in the sea: Measurement of the acoustic reflectivity of zooplankton with concurrent optical imaging. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 1239-1253	2.3	27
73	Estimation of mortality for stage-structured zooplankton populations: What is to be done?. <i>Journal of Marine Systems</i> , 2012 , 93, 4-10	2.7	26
72	Resilience and stability of a pelagic marine ecosystem. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	25
71	CCE V: Primary production, mesozooplankton grazing, and the biological pump in the California Current Ecosystem: Variability and response to El Niño. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018 , 140, 52-62	2.5	25
70	Freezing and storage of copepod samples for the analysis of lipids. <i>Marine Ecology - Progress Series</i> , 1996 , 130, 295-298	2.6	25
69	Improving plankton image classification using context metadata. <i>Limnology and Oceanography: Methods</i> , 2019 , 17, 439-461	2.6	24
68	On the determination of zooplankton lipid content and the occurrence of gelatinous copepods. <i>Journal of Plankton Research</i> , 1997 , 19, 1235-1250	2.2	24
67	Large Phaeodaria in the twilight zone: Their role in the carbon cycle. <i>Limnology and Oceanography</i> , 2018 , 63, 2579-2594	4.8	23
66	CCE IV: El Niño-related zooplankton variability in the southern California Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018 , 140, 36-51	2.5	23
65	CCE1: Decrease in the frequency of oceanic fronts and surface chlorophyll concentration in the California Current System during the 2014-2016 northeast Pacific warm anomalies. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018 , 140, 4-13	2.5	23
64	Changes in zooplankton habitat, behavior, and acoustic scattering characteristics across glider-resolved fronts in the Southern California Current System. <i>Progress in Oceanography</i> , 2015 , 134, 77-92	3.8	23

63	Multi-decadal variations in stable N isotopes of California Current zooplankton. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012 , 60, 46-55	2.5	23
62	Spatial differences in mortality of <i>Calanus pacificus</i> within the California Current System. <i>Journal of Plankton Research</i> , 2008 , 30, 359-366	2.2	23
61	Relationship of predation potential to mortality of <i>Calanus finmarchicus</i> on Georges Bank, northwest Atlantic. <i>Limnology and Oceanography</i> , 2008 , 53, 1643-1655	4.8	23
60	Dynamic variability of biogeochemical ratios in the Southern California Current System. <i>Geophysical Research Letters</i> , 2014 , 41, 2496-2501	4.9	22
59	Do inverse ecosystem models accurately reconstruct plankton trophic flows? Comparing two solution methods using field data from the California Current. <i>Journal of Marine Systems</i> , 2012 , 91, 20-33	2.7	22
58	Epipelagic and mesopelagic fishes in the southern California Current System: Ecological interactions and oceanographic influences on their abundance. <i>Journal of Marine Systems</i> , 2014 , 138, 20-28	2.7	22
57	Timing is everything: Drivers of interannual variability in blue whale migration. <i>Scientific Reports</i> , 2020 , 10, 7710	4.9	22
56	Use of glider-class acoustic Doppler profilers for estimating zooplankton biomass. <i>Journal of Plankton Research</i> , 2012 , 34, 563-568	2.2	20
55	Integrated molecular and morphological biogeography of the calanoid copepod family Eucalanidae. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 2110-2129	2.3	20
54	The Significance of Giant Phaeodarians (Rhizaria) to Biogenic Silica Export in the California Current Ecosystem. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 987-1004	5.9	20
53	Climate ecosystem change off southern California: Time-dependent seabird predator-prey numerical responses. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 158-170	2.3	19
52	Optical effect on the nitracline in a coastal upwelling area. <i>Limnology and Oceanography</i> , 2007 , 52, 1179-1187	4.8	19
51	The interrelationship of copepod fecundity and mortality. <i>Limnology and Oceanography</i> , 1996 , 41, 1470-1487	4.8	19
50	Multi-decadal variations in calcareous holozooplankton in the California Current System: Thecosome pteropods, heteropods, and foraminifera. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	18
49	Size fractionation of phytoplankton as an estimate of food available to herbivores1. <i>Limnology and Oceanography</i> , 1982 , 27, 570-576	4.8	18
48	Composition and potential grazing impact of salp assemblages off Baja California during the 1997-1999 El Niño and La Niña. <i>Marine Ecology - Progress Series</i> , 2006 , 318, 123-140	2.6	18
47	Larval morphology and development of <i>Neocalanus tonsus</i> , <i>Calanoides macrocarinatus</i> , and <i>Calanus australis</i> (Copepoda: Calanoida) in the laboratory. <i>New Zealand Journal of Marine and Freshwater Research</i> , 1988 , 22, 301-320	1.3	17
46	Egg strings in <i>Euchirella pseudopulchra</i> (Aetideidae) and comments on constraints on egg brooding in planktonic marine copepods. <i>Journal of Marine Systems</i> , 1998 , 15, 61-69	2.7	16

45	Description of a New Species of Strombidinopsidae (Ciliophora: Choreotrichida) from Coastal Waters of Southern California, U.S.A.. <i>Transactions of the American Microscopical Society</i> , 1991 , 110, 237		16
44	The morphology of euphausiid mandibles used to assess selective predation by blue whales in the southern sector of the California Current System. <i>Journal of Crustacean Biology</i> , 2018 , 38, 563-573	0.8	16
43	Modeling the effects of coastal wind- and wind stress curl-driven upwellings on plankton dynamics in the Southern California current system. <i>Journal of Marine Systems</i> , 2012 , 94, 107-119	2.7	15
42	Climate Impacts on Zooplankton Population Dynamics in Coastal Marine Ecosystems. <i>Oceanography</i> , 2013 , 26, 34-51	2.3	15
41	Body size dependence of euphausiid spatial patchiness 2010 , 55, 777		15
40	Climate-mediated changes in marine ecosystem regulation during El Niño. <i>Global Change Biology</i> , 2018 , 24, 796-809	11.4	15
39	The Carbon:234Thorium ratios of sinking particles in the California current ecosystem 1: relationships with plankton ecosystem dynamics. <i>Marine Chemistry</i> , 2019 , 212, 1-15	3.7	14
38	Astaxanthin in <i>Calanus pacificus</i> : Assessment of pigment-based measures of omnivory. <i>Limnology and Oceanography</i> , 1996 , 41, 1198-1207	4.8	14
37	Effects of chemical preservation on bulk and amino acid isotope ratios of zooplankton, fish, and squid tissues. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 935-945	2.2	13
36	The Roles of Suspension-Feeding and Flux-Feeding Zooplankton as Gatekeepers of Particle Flux Into the Mesopelagic Ocean in the Northeast Pacific. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	13
35	The Importance of Mesozooplankton Diel Vertical Migration for Sustaining a Mesopelagic Food Web. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	13
34	Sonar estimates of daytime activity levels of <i>Euphausia pacifica</i> in Saanich Inlet. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999 , 56, 2000-2010	2.4	12
33	Vertical niche definition of test-bearing protists (Rhizaria) into the twilight zone revealed by in situ imaging. <i>Limnology and Oceanography</i> , 2020 , 65, 2583-2602	4.8	11
32	CCEIII: Persistent functional relationships between copepod egg production rates and food concentration through anomalously warm conditions in the California Current Ecosystem. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018 , 140, 26-35	2.5	11
31	A sea of tentacles: optically discernible traits resolved from planktonic organisms in situ. <i>ICES Journal of Marine Science</i> , 2019 , 76, 1959-1972	2.7	11
30	Seasonal growth and lipid storage of the circumglobal, subantarctic copepod, <i>Neocalanus tonsus</i> (Brady). <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989 , 36, 1309-1326		11
29	Introduction to CCE-LTER: Responses of the California Current Ecosystem to climate forcing. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 1-5	2.3	10
28	Egg-brooding, body size and predation risk in planktonic marine copepods. <i>Oecologia</i> , 1999 , 121, 426-431.	1.9	10

27	Investigating Particle Size-Flux Relationships and the Biological Pump Across a Range of Plankton Ecosystem States From Coastal to Oligotrophic. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	9
26	Quantifying California current plankton samples with efficient machine learning techniques 2015 ,		9
25	A comparison between Zooglider and shipboard net and acoustic mesozooplankton sensing systems. <i>Journal of Plankton Research</i> , 2019 , 41, 521-533	2.2	7
24	Frontogenesis and the Creation of Fine-Scale Vertical Phytoplankton Structure. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 1509-1523	3.3	7
23	AQUATIC RESEARCH IN THE U.S. LTER NETWORK. <i>Limnology and Oceanography Bulletin</i> , 2008 , 17, 74-79	0.9	7
22	Zooglider-Based Measurements of Planktonic Foraminifera in the California Current System. <i>Journal of Foraminiferal Research</i> , 2019 , 49, 390-404	1.1	7
21	Biogeochemical Anomalies at Two Southern California Current System Moorings During the 2014-2016 Warm Anomaly-El Niño Sequence. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 6886-6903	3.3	5
20	Body size dependence of euphausiid spatial patchiness. <i>Limnology and Oceanography</i> , 2010 , 55, 777-788	4.8	5
19	Immunochemical recognition of oligotrich ciliates. <i>Marine Biology</i> , 1992 , 114, 653-660	2.5	5
18	Community Trait Distribution Across Environmental Gradients. <i>Ecosystems</i> , 2019 , 22, 968-980	3.9	5
17	The euphausiid prey field for blue whales around a steep bathymetric feature in the southern California current system. <i>Limnology and Oceanography</i> , 2019 , 64, 390-405	4.8	5
16	Introduction to collection of papers on the response of the southern California Current Ecosystem to the Warm Anomaly and El Niño, 2014-16. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018 , 140, 1-3	2.5	5
15	Errors associated with compound-specific $\delta^{15}\text{N}$ analysis of amino acids in preserved fish samples purified by high-pressure liquid chromatography. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 259-270	2.6	4
14	A free-drifting mimic of vertically migrating zooplankton. <i>Journal of Plankton Research</i> , 1999 , 21, 1865-1875	1.75	4
13	A multivariate analysis of planktonic interactions in the eastern tropical North Pacific. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1982 , 29, 1451-1469		4
12	On the sensitivity of plankton ecosystem models to the formulation of zooplankton grazing. <i>PLoS ONE</i> , 2021 , 16, e0252033	3.7	3
11	Cross-Shore Flow and Implications for Carbon Export in the California Current Ecosystem: A Lagrangian Analysis. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016611	3.3	3
10	Multi-decadal variations in calcareous holozooplankton in the California Current System: Thecosome pteropods, heteropods, and foraminifera. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	2

9	Euphausiid spatial displacements and habitat shifts in the southern California Current System in response to El Niño variability. <i>Progress in Oceanography</i> , 2021 , 193, 102544	3.8	2
8	Time lags: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03431	3.1	2
7	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
6	Development of <i>Thysanopoda egregia</i> (Euphausiacea) furciliae and early juvenile. <i>Journal of Crustacean Biology</i> , 2013 , 33, 244-252	0.8	1
5	The Importance of Mesozooplankton Diel Vertical Migration for Sustaining a Mesopelagic Food Web		1
4	Recommendations for interpreting zooplankton metabarcoding and integrating molecular methods with morphological analyses. <i>ICES Journal of Marine Science</i> ,	2.7	1
3	Zooglider-measured association of zooplankton with the fine-scale vertical prey field. <i>Limnology and Oceanography</i> , 2021 , 66, 3811	4.8	0
2	Fear and loathing in the pelagic: How the seascape of fear impacts the biological carbon pump. <i>Limnology and Oceanography</i> ,	4.8	0
1	Predation on Planktonic Protists Assessed by Immunochemical Assays 2018 , 731-737		