John Klinck

List of Publications by Year
in descending order

118 papers	5,654 citations	57758 44 h-index	88630 70 g-index
123 all docs	123 docs citations	123 times ranked	4039 citing authors

#	Article	IF	Citations
1	The physics of the Antarctic Circumpolar Current. Reviews of Geophysics, 1986, 24, 469-491.	23.0	341
2	The linkage between Upper Circumpolar Deep Water (UCDW) and phytoplankton assemblages on the west Antarctic Peninsula continental shelf. Journal of Marine Research, 2000, 58, 165-202.	0.3	216
3	A model study of Circumpolar Deep Water on the West Antarctic Peninsula and Ross Sea continental shelves. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1508-1523.	1.4	185
4	Hydrography and circulation of the West Antarctic Peninsula Continental Shelf. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 925-949.	1.4	184
5	Circulation near submarine canyons: A modeling study. Journal of Geophysical Research, 1996, 101, 1211-1223.	3.3	164
6	Water-mass properties and circulation on the west Antarctic Peninsula Continental Shelf in Austral Fall and Winter 2001. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 1925-1946.	1.4	154
7	The Relationship Between Increasing Sea-surface Temperature and the Northward Spread ofPerkinsus marinus(Dermo) Disease Epizootics in Oysters. Estuarine, Coastal and Shelf Science, 1998, 46, 587-597.	2.1	148
8	Krill transport in the Scotia Sea and environs. Antarctic Science, 1998, 10, 406-415.	0.9	143
9	Water mass distribution and circulation west of the Antarctic Peninsula and including Bransfield Strait. Antarctic Research Series, 1996, , 61-80.	0.2	133
10	Cross-shelf exchange in a model of the Ross Sea circulation and biogeochemistry. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 3103-3120.	1.4	131
11	On the Role of Coastal Troughs in the Circulation of Warm Circumpolar Deep Water on Antarctic Shelves. Journal of Physical Oceanography, 2013, 43, 51-64.	1.7	122
12	A model study of circulation and cross-shelf exchange on the west Antarctic Peninsula continental shelf. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2003-2022.	1.4	117
13	Sensitivity of Circumpolar Deep Water Transport and Ice Shelf Basal Melt along the West Antarctic Peninsula to Changes in the Winds. Journal of Climate, 2012, 25, 4799-4816.	3.2	112
14	Influence of sea ice cover and icebergs on circulation and water mass formation in a numerical circulation model of the Ross Sea, Antarctica. Journal of Geophysical Research, 2007, 112, .	3.3	111
15	A population dynamics model for the Japanese oyster, Crassostrea gigas. Aquaculture, 1997, 149, 285-321.	3.5	102
16	Physical forcing of phytoplankton community structure and primary production in continental shelf waters of the Western Antarctic Peninsula. Journal of Marine Research, 2004, 62, 419-460.	0.3	99
17	ENSO and variability of the Antarctic Peninsula pelagic marine ecosystem. Antarctic Science, 2009, 21, 135-148.	0.9	97
18	Flow near submarine canyons driven by constant winds. Journal of Geophysical Research, 2000, 105, 28671-28694.	3.3	86

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19	IS OYSTER SHELL A SUSTAINABLE ESTUARINE RESOURCE?. Journal of Shellfish Research, 2007, 26, 181-194.	0.9	79
20	Developing integrated models of Southern Ocean food webs: Including ecological complexity, accounting for uncertainty and the importance of scale. Progress in Oceanography, 2012, 102, 74-92.	3.2	79
21	Iron supply and demand in an Antarctic shelf ecosystem. Geophysical Research Letters, 2015, 42, 8088-8097.	4.0	73
22	Heat and salt changes on the continental shelf west of the Antarctic Peninsula between January 1993 and January 1994. Journal of Geophysical Research, 1998, 103, 7617-7636.	3.3	70
23	Quantifying the Effects of Environmental Change on an Oyster Population: A Modeling Study. Estuaries and Coasts, 2000, 23, 593.	1.7	64
24	Upper ocean variability in west Antarctic Peninsula continental shelf waters as measured using instrumented seals. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 323-337.	1.4	64
25	Modeling oyster populations. V. Declining phytoplankton stocks and the population dynamics of American oyster (Crassostrea virginica) populations. Fisheries Research, 1995, 24, 199-222.	1.7	63
26	The effects of changing winds and temperatures on the oceanography of the Ross Sea in the 21st century. Geophysical Research Letters, 2014, 41, 1624-1631.	4.0	63
27	Concentrations and vertical fluxes of zooplankton fecal pellets on a continental shelf. Marine Biology, 1981, 61, 327-335.	1.5	62
28	Impact of local winter cooling on the melt of <scp>P</scp>ine <scp>I</scp>sland <scp>G</scp>lacier, <scp>A</scp>ntarctica. Journal of Geophysical Research: Oceans, 2015, 120, 6718-6732.	2.6	61
29	Lagrangian modelling studies of Antarctic krill (Euphausia superba) swarm formation. ICES Journal of Marine Science, 2004, 61, 617-631.	2.5	57
30	The rise and fall of <i>Crassostrea virginica</i> oyster reefs: The role of disease and fishing in their demise and a vignette on their management. Journal of Marine Research, 2012, 70, 505-558.	0.3	55
31	The effect of food composition on Pacific oyster Crassostrea gigas (Thunberg) growth in Korea: a modeling study. Aquaculture, 2001, 199, 41-62.	3.5	54
32	Differential modulation of eastern oyster (Crassostrea virginica) disease parasites by the El-NiÃ±o-Southern Oscillation and the North Atlantic Oscillation. International Journal of Earth Sciences, 2009, 98, 99-114.	1.8	52
33	Hydrographic control of the marine ecosystem in the South Shetland-Elephant Island and Bransfield Strait region. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 519-542.	1.4	52
34	Modeling the remote and local connectivity of Antarctic krill populations along the western Antarctic Peninsula. Marine Ecology - Progress Series, 2013, 481, 69-92.	1.9	52
35	Lagrangian simulation of transport pathways and residence times along the western Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1524-1539.	1.4	51
36	Long-term dynamics in Atlantic surfclam (Spisula solidissima) populations: The role of bottom water temperature. Journal of Marine Systems, 2015, 141, 136-148.	2.1	51

#	Article	IF	Citations
37	Title is missing!. Hydrobiologia, 2001, 460, 195-212.	2.0	50
38	Water properties on the west Antarctic Peninsula continental shelf: a model study of effects of surface fluxes and sea ice. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4863-4886.	1.4	50
39	Transport of Antarctic krill (Euphausia superba) across the Scotia Sea. Part I: Circulation and particle tracking simulations. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 987-1010.	1.4	49
40	A POPULATION DYNAMICS MODEL OF THE HARD CLAM, MERCENARIA MERCENARIA: DEVELOPMENT OF THE AGE- AND LENGTH-FREQUENCY STRUCTURE OF THE POPULATION. Journal of Shellfish Research, 2006, 25, 417-444.	0.9	49
41	Exchange across the shelf break at high southern latitudes. Ocean Science, 2010, 6, 513-524.	3.4	49
42	Underestimation of primary productivity on continental shelves: evidence from maximum size of extant surfclam <i>(Spisula solidissima)</i> populations. Fisheries Oceanography, 2013, 22, 220-233.	1.7	49
43	Influence of food quality and quantity on the growth and development of Crassostrea gigas larvae: a modeling approach. Aquaculture, 2002, 210, 89-117.	3.5	47
44	Biogeochemical climatologies in the Ross Sea, Antarctica: seasonal patterns of nutrients and biomass. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 3083-3101.	1.4	45
45	Impact of model resolution for onâ€shelf heat transport along the <scp>W</scp>est <scp>A</scp>ntarctic <scp>P</scp>eninsula. Journal of Geophysical Research: Oceans, 2016, 121, 7880-7897.	2.6	45
46	Influence of Water Allocation and Freshwater Inflow on Oyster Production: A Hydrodynamic-Oyster Population Model for Galveston Bay, Texas, USA. Environmental Management, 2003, 31, 100-121.	2.7	44
47	U.S. Southern Ocean Global Ecosystems Dynamics Program. Oceanography, 2002, 15, 64-74.	1.0	43
48	Fishing and bottom water temperature as drivers of change in maximum shell length in Atlantic surfclams (Spisula solidissima). Estuarine, Coastal and Shelf Science, 2016, 170, 112-122.	2.1	42
49	Data-driven reconstruction reveals large-scale ocean circulation control on coastal sea level. Nature Climate Change, 2021, 11, 514-520.	18.8	40
50	Understanding How Disease and Environment Combine to Structure Resistance in Estuarine Bivalve Populations. Oceanography, 2009, 22, 212-231.	1.0	39
51	Modeling the dispersal of eastern oyster (<i>Crassostrea virginica</i>) larvae in Delaware Bay. Journal of Marine Research, 2012, 70, 381-409.	0.3	39
52	Distributions of krill and Antarctic silverfish and correlations with environmental variables in the western Ross Sea, Antarctica. Marine Ecology - Progress Series, 2017, 584, 45-65.	1.9	39
53	Varying the timing of oyster transplant: implications for management from simulation studies. Fisheries Oceanography, 1998, 6, 213-237.	1.7	37
54	On vertical advection truncation errors in terrain-following numerical models: Comparison to a laboratory model for upwelling over submarine canyons. Journal of Geophysical Research, 2003, 108, 3-1.	3.3	35

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55	Ecophysiological dynamic model of individual growth of Ruditapes philippinarum. Aquaculture, 2007, 266, 130-143.	3.5	35
56	The Effect of Atmospheric Forcing Resolution on Delivery of Ocean Heat to the Antarctic Floating Ice Shelves*,+. Journal of Climate, 2015, 28, 6067-6085.	3.2	35
57	Modeling larval connectivity of the Atlantic surfclams within the Middle Atlantic Bight: Model development, larval dispersal and metapopulation connectivity. Estuarine, Coastal and Shelf Science, 2015, 153, 38-53.	2.1	34
58	Effect of wind changes during the Last Glacial Maximum on the circulation in the Southern Ocean. Paleoceanography, 1993, 8, 427-433.	3.0	33
59	EOF Analysis of Central Drake Passage Currents from DRAKE 79. Journal of Physical Oceanography, 1985, 15, 288-298.	1.7	31
60	Inflows/outflows at the transition between a coastal plain estuary and the coastal ocean. Continental Shelf Research, 1996, 16, 1819-1847.	1.8	31
61	UNDERSTANDING THE SUCCESS AND FAILURE OF OYSTER POPULATIONS: CLIMATIC CYCLES AND PERKINSUS MARINUS. Journal of Shellfish Research, 2006, 25, 83-93.	0.9	31
62	A Shell-Neutral Modeling Approach Yields Sustainable Oyster Harvest Estimates: A Retrospective Analysis of the Louisiana State Primary Seed Grounds. Journal of Shellfish Research, 2012, 31, 1103-1112.	0.9	31
63	The role of larval dispersal in metapopulation gene flow: Local population dynamics matter. Journal of Marine Research, 2012, 70, 441-467.	0.3	31
64	Thermohaline Variability of the Waters Overlying The West Antarctic Peninsula Continental Shelf. Antarctic Research Series, 0, , 67-81.	0.2	30
65	The Potential for Oysters,<i>Crassostrea virginica</i>, to Develop Resistance to Dermo Disease in the Field: Evaluation using a Gene-Based Population Dynamics Model. Journal of Shellfish Research, 2011, 30, 685-712.	0.9	29
66	Understanding the Success and Failure of Oyster Populations: Periodicities of<i>Perkinsus marinus</i>, and Oyster Recruitment, Mortality, and Size. Journal of Shellfish Research, 2012, 31, 635-646.	0.9	29
67	A modeling study of the effects of size- and depth-dependent predation on larval survival. Journal of Plankton Research, 1997, 19, 1583-1598.	1.8	27
68	Modeling the transmission of Perkinsus marinus in the Eastern oyster Crassostrea virginica. Fisheries Research, 2017, 186, 82-93.	1.7	27
69	Circulation and behavior controls on dispersal of eastern oyster (<i>Crassostrea virginica</i>) larvae in Delaware Bay. Journal of Marine Research, 2012, 70, 411-440.	0.3	26
70	Effects of Projected Changes in Wind, Atmospheric Temperature, and Freshwater Inflow on the Ross Sea. Journal of Climate, 2018, 31, 1619-1635.	3.2	26
71	Title is missing!. Environmental Modeling and Assessment, 2002, 7, 273-289.	2.2	25
72	Dissolved iron transport pathways in the Ross Sea: Influence of tides and horizontal resolution in a regional ocean model. Journal of Marine Systems, 2017, 166, 73-86.	2.1	25

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73	A modelling study of the influence of environment and food supply on survival of Crassostrea gigas larvae. ICES Journal of Marine Science, 2004, 61, 596-616.	2.5	24
74	Marine infectious disease dynamics and outbreak thresholds: contact transmission, pandemic infection, and the potential role of filter feeders. Ecosphere, 2016, 7, e01286.	2.2	24
75	The role of feeding behavior in sustaining copepod populations in the tropical ocean. Journal of Plankton Research, 2005, 27, 1013-1031.	1.8	23
76	Effects of the Fishery on the Northern Quahog (=Hard Clam, Mercenaria mercenaria L.) Population in Great South Bay, New York: A Modeling Study. Journal of Shellfish Research, 2008, 27, 653-666.	0.9	23
77	Development of an Ageâ€"Frequency Distribution for Ocean Quahogs (<i>Arctica islandica</i>) on Georges Bank. Journal of Shellfish Research, 2017, 36, 41-53.	0.9	22
78	An Overview of Factors Affecting Distribution of the Atlantic Surfclam (<i>Spisula solidissima</i>), a Continental Shelf Biomass Dominant, During a Period of Climate Change. Journal of Shellfish Research, 2018, 37, 821-831.	0.9	22
79	Generation time and the stability of sex-determining alleles in oyster populations as deduced using a gene-based population dynamics model. Journal of Theoretical Biology, 2011, 271, 27-43.	1.7	21
80	Microparasitic disease dynamics in benthic suspension feeders: Infective dose, non-focal hosts, and particle diffusion. Ecological Modelling, 2016, 328, 44-61.	2.5	21
81	Estimating Sustainable Harvests of Eastern Oysters,<i>Crassostrea virginica</i>. Journal of Shellfish Research, 2014, 33, 381-394.	0.9	20
82	Processes influencing formation of low-salinity high-biomass lenses near the edge of the Ross Ice Shelf. Journal of Marine Systems, 2017, 166, 108-119.	2.1	20
83	Can oysters <i>Crassostrea virginica</i> develop resistance to dermo disease in the field: The impediment posed by climate cycles. Journal of Marine Research, 2012, 70, 309-355.	0.3	19
84	Modeling environmental controls on the transport and fate of early life stages of Antarctic krill (Euphausia superba) on the western Antarctic Peninsula continental shelf. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 82, 17-31.	1.4	19
85	A time-dependent model of nutrient distribution in continental shelf waters. Ecological Modelling, 1980, 10, 193-214.	2.5	17
86	BENTHIC PREDATORS AND NORTHERN QUAHOG (=HARD CLAM) (MERCENARIA MERCENARIA LINNAEUS, 1758) POPULATIONS. Journal of Shellfish Research, 2007, 26, 995-1010.	0.9	15
87	A theoretical individual-based model of Brown Ring Disease in Manila clams, Venerupis philippinarum. Journal of Sea Research, 2014, 91, 15-34.	1.6	15
88	DThe Value of Captainsâ€™ Behavioral Choices in the Success of the Surfclam (<i>Spisula solidissima</i>) Fishery on the U.S. Mid-Atlantic Coast: a Model Evaluation.. Journal of Northwest Atlantic Fishery Science, 0, 47, 1-27.	1.4	15
89	Modeling Ocean Eddies on Antarctica's Cold Water Continental Shelves and Their Effects on Ice Shelf Basal Melting. Journal of Geophysical Research: Oceans, 2019, 124, 5067-5084.	2.6	14
90	Outcomes of asymmetric selection pressure and larval dispersal on evolution of disease resistance: a metapopulation modeling study with oysters. Marine Ecology - Progress Series, 2015, 531, 221-239.	1.9	14

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91	Application of a Gene-Based Population Dynamics Model to the Optimal Egg Size Problem: Why Do Bivalve Planktotrophic Eggs Vary in Size?. Journal of Shellfish Research, 2011, 30, 403-423.	0.9	13
92	Extracting tidal variability of sea ice concentration from AMSR-E passive microwave single-swath data: a case study of the Ross Sea. Geophysical Research Letters, 2013, 40, 547-552.	4.0	13
93	The Atlantic surfclam fishery and offshore wind energy development: 2. Assessing economic impacts. ICES Journal of Marine Science, 2022, 79, 1801-1814.	2.5	13
94	Captains' response to a declining stock as anticipated in the surfclam (Spisula solidissima) fishery on the U.S. Mid-Atlantic coast by model evaluation. Ocean and Coastal Management, 2016, 134, 52-68.	4.4	12
95	Oysters, Sustainability, Management Models, and the World of Reference Points. Journal of Shellfish Research, 2018, 37, 833-849.	0.9	12
96	Hydrographic variability along the inner and mid-shelf region of the western Ross Sea obtained using instrumented seals. Progress in Oceanography, 2019, 174, 131-142.	3.2	12
97	Variability and Dynamics of Alongâ€Shore Exchange on the West Antarctic Peninsula (WAP) Continental Shelf. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	12
98	Influence of short-term variations in food on survival of <I>Crassostrea gigas</I> larvae: A modeling study. Journal of Marine Research, 2004, 62, 117-152.	0.3	11
99	Estimation of shelfâ€slope exchanges induced by frontal instability near submarine canyons. Journal of Geophysical Research, 2008, 113, .	3.3	11
100	Modeling larval dispersal and connectivity for Atlantic sea scallop (Placopecten magellanicus) in the Middle Atlantic Bight. Fisheries Research, 2018, 208, 7-15.	1.7	10
101	Modeling studies of the effect of climate variability on MSX disease in eastern oyster (Crassostrea) Tj ETQq1 1 0.784314 rgBT /Overlo		10
102	Vorticity Dynamics of Seasonal Variations of the Antarctic Circumpolar Current from a Modeling Study. Journal of Physical Oceanography, 1991, 21, 1515-1533.	1.7	9
103	A modelling study of the role of marine protected areas in metapopulation genetic connectivity in Delaware Bay oysters. Aquatic Conservation: Marine and Freshwater Ecosystems, 2014, 24, 645-666.	2.0	9
104	Management strategy evaluation for the Atlantic surfclam (Spisula solidissima) using a spatially explicit, vessel-based fisheries model. Fishery Bulletin, 2017, 115, 300-325.	0.2	9
105	How do shellfisheries influence genetic connectivity in metapopulations? A modeling study examining the role of lower size limits in oyster fisheries. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 1813-1828.	1.4	8
106	Spillover of sea scallops from rotational closures in the Mid-Atlantic Bight (United States). ICES Journal of Marine Science, 2020, 77, 1992-2002.	2.5	8
107	A Recirculating Eddy Promotes Subsurface Particle Retention in an Antarctic Biological Hotspot. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017304.	2.6	8
108	The Atlantic surfclam fishery and offshore wind energy development: 1. Model development and verification. ICES Journal of Marine Science, 2022, 79, 1787-1800.	2.5	8

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109	Understanding controls on Margalefidinium polykrikoides blooms in the lower Chesapeake Bay. Harmful Algae, 2021, 107, 102064.	4.8	7
110	The effect of Antarctic Circumpolar Current transport on the frontal variability in Drake Passage. Dynamics of Atmospheres and Oceans, 2008, 45, 208-228.	1.8	6
111	Self- and mutual shading and competition effect on competing algal distributions: Biological implications of the model. Ecological Modelling, 1991, 59, 11-36.	2.5	5
112	Effects of wind, density, and bathymetry on a oneâ€layer southern ocean model. Journal of Geophysical Research, 1992, 97, 20179-20189.	3.3	5
113	Subsurface Eddy Facilitates Retention of Simulated Diel Vertical Migrators in a Biological Hotspot. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
114	Deep-Flow Variability at Drake Passage. Journal of Physical Oceanography, 1986, 16, 1281-1292.	1.7	4
115	The effect of abundance changes on a management strategy evaluation for the Atlantic surfclam (Spisula solidissima) using a spatially explicit, vessel-based fisheries model. Ocean and Coastal Management, 2019, 169, 68-85.	4.4	4
116	Eddyâ€Driven Transport of Particulate Organic Carbonâ€Rich Coastal Water Off the West Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016791.	2.6	4
117	The â€œChallengeâ€• of Depletion: Why the Oyster Fishery is not Self-Regulating. Journal of Shellfish Research, 2020, 39, 291.	0.9	1
118	Project SWARM: The application of an integrated polar ocean observing system to map the physical mechanisms driving food web focusing in an Antarctic biological hotspot. , 2019, , .		0