Ken H Andersen

List of Publications by Year
in descending order

108 papers	4,382 citations	94269 37 h-index	133063 59 g-index
114 all docs	114 docs citations	114 times ranked	4156 citing authors

#	Article	IF	Citations
1	Asymptotic Size Determines Species Abundance in the Marine Size Spectrum. American Naturalist, 2006, 168, 54-61.	1.0	254
2	Characteristic Sizes of Life in the Oceans, from Bacteria to Whales. Annual Review of Marine Science, 2016, 8, 217-241.	5.1	181
3	Food web framework for size-structured populations. Journal of Theoretical Biology, 2011, 272, 113-122.	0.8	179
4	Wave plus current over a ripple-covered bed. Coastal Engineering, 1999, 38, 177-221.	1.7	157
5	Damped trophic cascades driven by fishing in model marine ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 795-802.	1.2	135
6	Evaluating targets and tradeâ€offs among fisheries and conservation objectives using a multispecies size spectrum model. Journal of Applied Ecology, 2014, 51, 612-622.	1.9	130
7	Forage fish, their fisheries, and their predators: who drives whom?. ICES Journal of Marine Science, 2014, 71, 90-104.	1.2	123
8	The consequences of balanced harvesting of fish communities. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132701.	1.2	106
9	Expected rate of fisheries-induced evolution is slow. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11657-11660.	3.3	103
10	Geolocation of North Sea cod (Gadus morhua) using hidden Markov models and behavioural switching. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 2367-2377.	0.7	93
11	mizer: an R package for multispecies, traitâ€based and community size spectrum ecological modelling. Methods in Ecology and Evolution, 2014, 5, 1121-1125.	2.2	85
12	A trait-based approach to ocean ecology. ICES Journal of Marine Science, 2018, 75, 1849-1863.	1.2	84
13	The theoretical foundations for size spectrum models of fish communities. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 575-588.	0.7	77
14	Instabilities in sand ripples. Nature, 2001, 410, 324-324.	13.7	73
15	Capital versus Income Breeding in a Seasonal Environment. American Naturalist, 2014, 184, 466-476.	1.0	69
16	Size structure, not metabolic scaling rules, determines fisheries reference points. Fish and Fisheries, 2015, 16, 1-22.	2.7	67
17	A Simple Model for the Various Pattern Dynamics of Dunes. International Journal of Modern Physics B, 1998, 12, 257-272.	1.0	66
18	Maximizing fisheries yields while maintaining community structure. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 644-655.	0.7	64

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19	Trophic and individual efficiencies of size-structured communities. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 109-114.	1.2	57
20	Adaptive feeding behavior and functional responses in zooplankton. Limnology and Oceanography, 2018, 63, 308-321.	1.6	56
21	Thermal performance of fish is explained by an interplay between physiology, behaviour and ecology. , 2019, 7, coz025.		55
22	Feeding and growth of Atlantic cod (Gadus morhua L.) in the eastern Baltic Sea under environmental change. ICES Journal of Marine Science, 2020, 77, 624-632.	1.2	55
23	Some Atlantic cod Gadus morhua in the Baltic Sea visit hypoxic water briefly but often. Journal of Fish Biology, 2009, 75, 290-294.	0.7	54
24	When in life does density dependence occur in fish populations?. Fish and Fisheries, 2017, 18, 656-667.	2.7	54
25	Evolution of boldness and life history in response to selective harvesting. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 271-281.	0.7	51
26	Global patterns in marine predatory fish. Nature Ecology and Evolution, 2018, 2, 65-70.	3.4	51
27	Estimating spatio-temporal dynamics of size-structured populations. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 326-336.	0.7	50
28	Bottom-up drivers of global patterns of demersal, forage, and pelagic fishes. Progress in Oceanography, 2019, 176, 102124.	1.5	46
29	Species competition: coexistence, exclusion and clustering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3183-3195.	1.6	45
30	Control of plankton seasonal succession by adaptive grazing. Limnology and Oceanography, 2013, 58, 173-184.	1.6	45
31	Modelling emergent trophic strategies in plankton. Journal of Plankton Research, 2015, 37, 862-868.	0.8	45
32	Seasonal succession in zooplankton feeding traits reveals trophic trait coupling. Limnology and Oceanography, 2017, 62, 1184-1197.	1.6	45
33	Modeling succession of key resource-harvesting traits of mixotrophic plankton. ISME Journal, 2017, 11, 212-223.	4.4	45
34	Dynamical models for sand ripples beneath surface waves. Physical Review E, 2001, 63, 066308.	0.8	44
35	How community ecology links natural mortality, growth, and production of fish populations. ICES Journal of Marine Science, 2009, 66, 1978-1984.	1.2	44
36	Overconfidence in model projections. ICES Journal of Marine Science, 2013, 70, 1065-1068.	1.2	44

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37	Tradeâ€offs between objectives for ecosystem management of fisheries. Ecological Applications, 2015, 25, 1390-1396.	1.8	44
38	Reconstructing migrations of individual cod (Gadus morhua L.) in the Baltic Sea by using electronic data storage tags. Fisheries Oceanography, 2007, 16, 526-535.	0.9	40
39	How Gaussian competition leads to lumpy or uniform species distributions. Theoretical Ecology, 2010, 3, 89-96.	0.4	39
40	Remaining questions in the case for balanced harvesting. Fish and Fisheries, 2016, 17, 1216-1226.	2.7	39
41	Forage Fish Interactions: a symposium on â€œCreating the tools for ecosystem-based management of marine resourcesâ€• ICES Journal of Marine Science, 2014, 71, 1-4.	1.2	38
42	Adult and offspring size in the ocean over 17 orders of magnitude follows two life history strategies. Ecology, 2015, 96, 3303-3311.	1.5	37
43	Trophic Strategies of Unicellular Plankton. American Naturalist, 2017, 189, E77-E90.	1.0	37
44	Interacting Temperature, Nutrients and Zooplankton Grazing Control Phytoplankton Size-Abundance Relationships in Eight Swiss Lakes. Frontiers in Microbiology, 2019, 10, 3155.	1.5	37
45	Quantifying nitrogen fixation by heterotrophic bacteria in sinking marine particles. Nature Communications, 2021, 12, 4085.	5.8	37
46	How optimal life history changes with the community size-spectrum. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1323-1331.	1.2	35
47	Analysing migrations of Atlantic cod Gadus morhua in the northâ€east Atlantic Ocean: then, now and the future. Journal of Fish Biology, 2013, 82, 741-763.	0.7	35
48	Efficiency of fisheries is increasing at the ecosystem level. Fish and Fisheries, 2017, 18, 199-211.	2.7	35
49	Global analysis of fish growth rates shows weaker responses to temperature than metabolic predictions. Global Ecology and Biogeography, 2020, 29, 2203-2213.	2.7	35
50	Coexistence of structured populations with size-based prey selection. Theoretical Population Biology, 2013, 89, 24-33.	0.5	34
51	Size structures sensory hierarchy in ocean life. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151346.	1.2	34
52	Using the particle filter to geolocate Atlantic cod (Gadus morhua) in the Baltic Sea, with special emphasis on determining uncertainty. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 618-627.	0.7	33
53	Food-web dynamics under climate change. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171772.	1.2	33
54	Trait diversity promotes stability of community dynamics. Theoretical Ecology, 2013, 6, 57-69.	0.4	32

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55	Emerging asymmetric interactions between forage and predator fisheries impose management tradeâ€offs^a. Journal of Fish Biology, 2013, 83, 890-904.	0.7	31
56	Scaling Laws in Phytoplankton Nutrient Uptake Affinity. Frontiers in Marine Science, 2016, 3, .	1.2	30
57	Life-history constraints on the success of the many small eggs reproductive strategy. Theoretical Population Biology, 2008, 73, 490-497.	0.5	28
58	Four types of interference competition and their impacts on the ecology and evolution of size-structured populations and communities. Journal of Theoretical Biology, 2015, 380, 280-290.	0.8	27
59	A particle model of rolling grain ripples under waves. Physics of Fluids, 2001, 13, 58-64.	1.6	26
60	Stability Balloon for Two-Dimensional Vortex Ripple Patterns. Physical Review Letters, 2001, 87, 204301.	2.9	26
61	The cost of toxin production in phytoplankton: the case of PST producing dinoflagellates. ISME Journal, 2019, 13, 64-75.	4.4	26
62	Biogeography of zooplankton feeding strategy. Limnology and Oceanography, 2019, 64, 661-678.	1.6	26
63	Assumptions behind size-based ecosystem models are realistic. ICES Journal of Marine Science, 2016, 73, 1651-1655.	1.2	25
64	Optimal salmon lice treatment threshold and tragedy of the commons in salmon farm networks. Aquaculture, 2019, 512, 734329.	1.7	24
65	Traitâ€based food web model reveals the underlying mechanisms of biodiversityâ€“ecosystem functioning relationships. Journal of Animal Ecology, 2020, 89, 1497-1510.	1.3	24
66	Pattern Dynamics of Vortex Ripples in Sand: Nonlinear Modeling and Experimental Validation. Physical Review Letters, 2002, 88, 234302.	2.9	23
67	Size-based predictions of food web patterns. Theoretical Ecology, 2014, 7, 23-33.	0.4	22
68	Limits to the reliability of size-based fishing status estimation for data-poor stocks. Fisheries Research, 2015, 171, 4-11.	0.9	22
69	Comparing model predictions for ecosystem-based management. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 666-676.	0.7	22
70	Estimating uncertainty of data limited stock assessments. ICES Journal of Marine Science, 2017, 74, 69-77.	1.2	22
71	Resource limitation determines temperature response of unicellular plankton communities. Limnology and Oceanography, 2019, 64, 1627-1640.	1.6	21
72	A general size- and trait-based model of plankton communities. Progress in Oceanography, 2020, 189, 102473.	1.5	21

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73	The wave plus current flow over vortex ripples at an arbitrary angle. Coastal Engineering, 2003, 47, 431-441.	1.7	20
74	Implications of late-in-life density-dependent growth for fishery size-at-entry leading to maximum sustainable yield. ICES Journal of Marine Science, 2018, 75, 1296-1305.	1.2	20
75	Large Pelagic Fish Are Most Sensitive to Climate Change Despite Pelagification of Ocean Food Webs. Frontiers in Marine Science, 2020, 7, .	1.2	20
76	Measurement of the velocity-profile in and above a forest ofLaminaria hyperborea. Sarsia, 1996, 81, 193-196.	0.5	19
77	An effective algorithm for approximating adaptive behavior in seasonal environments. Ecological Modelling, 2015, 311, 20-30.	1.2	19
78	Direct and indirect community effects of rebuilding plans. ICES Journal of Marine Science, 2010, 67, 1980-1988.	1.2	18
79	Challenges to fisheries advice and management due to stock recovery. ICES Journal of Marine Science, 2018, 75, 1864-1870.	1.2	17
80	A life-history evaluation of the impact of maternal effects on recruitment and fisheries reference points. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1113-1120.	0.7	15
81	Competitionâ€“defense tradeoff increases the diversity of microbial plankton communities and dampens trophic cascades. Oikos, 2019, 128, 1027-1040.	1.2	15
82	Trophic impact of Atlantic bluefin tuna migrations in the North Sea. ICES Journal of Marine Science, 2017, 74, 1552-1560.	1.2	14
83	Size-based theory for fisheries advice. ICES Journal of Marine Science, 2020, 77, 2445-2455.	1.2	14
84	Community Trait Distribution Across Environmental Gradients. Ecosystems, 2019, 22, 968-980.	1.6	12
85	Latitudinal Variation in Plankton Traits and Ecosystem Function. Global Biogeochemical Cycles, 2020, 34, e2020GB006564.	1.9	11
86	Co-adaptive behavior of interacting populations in a habitat selection game significantly impacts ecosystem functions. Journal of Theoretical Biology, 2021, 523, 110663.	0.8	11
87	Emergent global biogeography of marine fish food webs. Global Ecology and Biogeography, 2021, 30, 1822-1834.	2.7	10
88	Linking Plankton Size Spectra and Community Composition to Carbon Export and Its Efficiency. Global Biogeochemical Cycles, 2022, 36, .	1.9	10
89	Differences in density-dependence drive dual offspring size strategies in fish. Journal of Theoretical Biology, 2016, 407, 118-127.	0.8	9
90	Unplanned ecological engineering. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 634-635.	3.3	9

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91	Limited impact of big fish mothers for population replenishment. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 347-349.	0.7	9
92	Anthropogenic forcing of fish boldness and its impacts on ecosystem structure. Global Change Biology, 2021, 27, 1239-1249.	4.2	9
93	Shell model for time-correlated random advection of passive scalars. Physical Review E, 1999, 60, 6663-6681.	0.8	8
94	Body Size, Light Intensity, and Nutrient Supply Determine Plankton Stoichiometry in Mixotrophic Plankton Food Webs. American Naturalist, 2020, 195, E100-E111.	1.0	7
95	Competition between vacuolated and mixotrophic unicellular plankton. Journal of Plankton Research, 2020, 42, 425-439.	0.8	7
96	Eulerian techniques for individual-based models with additive components. Journal of Marine Systems, 2007, 67, 179-188.	0.9	6
97	Fear and loathing in the pelagic: How the seascape of fear impacts the biological carbon pump. Limnology and Oceanography, 2022, 67, 1238-1256.	1.6	5
98	Deriving Population Scaling Rules from Individual-Level Metabolism and Life History Traits. American Naturalist, 2022, 199, 564-575.	1.0	5
99	General Classification of Maturation Reaction-Norm Shape from Size-based Processes. Bulletin of Mathematical Biology, 2011, 73, 1004-1027.	0.9	4
100	Seasonal strategies in the worldâ€™s oceans. Progress in Oceanography, 2020, 189, 102466.	1.5	4
101	Cannibalism as a selective force on offspring size in fish. Oikos, 2018, 127, 1264-1271.	1.2	3
102	AN INDICATOR FOR ECOSYSTEM EXTERNALITIES IN FISHING. Natural Resource Modelling, 2016, 29, 400-425.	0.8	2
103	Population variability under stressors is dependent on body mass growth and asymptotic body size. Royal Society Open Science, 2020, 7, 192011.	1.1	2
104	Nutritional status determines apparent assimilative capacity and functional response of marine predatory fish. ICES Journal of Marine Science, 2021, 78, 3615-3624.	1.2	2
105	Spatial drivers of instability in marine size-spectrum ecosystems. Journal of Theoretical Biology, 2021, 517, 110631.	0.8	2
106	Reply to Kinnison et al.: Effects of fishing on phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, .	3.3	1
107	Reply to â€œReduced growth in Baltic Sea cod may be due to mild hypoxiaâ€â€”a comment to Neuenfeldt et al. (2020). ICES Journal of Marine Science, 2020, 77, 2006-2008.	1.2	1
108	Response to comment: â€œWhat drives plankton seasonality in a stratifying shelf sea? Some competing and complementary theoriesâ€• Limnology and Oceanography, 2018, 63, 2885-2886.	1.6	0