Uffe HÃ¸gsbro Thygesen

List of Publications by Year
in descending order

60 papers	1,764 citations	236833 25 h-index	289141 40 g-index
63 all docs	63 docs citations	63 times ranked	2249 citing authors

#	Article	IF	Citations
1	State-space models for bio-loggers: A methodological road map. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 88-89, 34-46.	0.6	187
2	Fluid motion and solute distribution around sinking aggregates. I. Small-scale fluxes and heterogeneity of nutrients in the pelagic environment. Marine Ecology - Progress Series, 2001, 211, 1-13.	0.9	115
3	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
4	Estimating animal behavior and residency from movement data. Oikos, 2011, 120, 1281-1290.	1.2	93
5	A Model of Extracellular Enzymes in Free-Living Microbes: Which Strategy Pays Off?. Applied and Environmental Microbiology, 2015, 81, 7385-7393.	1.4	74
6	Positioning of aquatic animals based on time-of-arrival and random walk models using YAPS (Yet) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.6	64
7	Fluid motion and solute distribution around sinking aggregates. II. Implications for remote detection by colonizing zooplankters. Marine Ecology - Progress Series, 2001, 211, 15-25.	0.9	61
8	Estimation methods for nonlinear state-space models in ecology. Ecological Modelling, 2011, 222, 1394-1400.	1.2	56
9	Validation of ecological state space models using the Laplace approximation. Environmental and Ecological Statistics, 2017, 24, 317-339.	1.9	54
10	Electronic reporting of diagnostic laboratory test results from all healthcare sectors is a cornerstone of national preparedness and control of COVIDâ€19 in Denmark. Apmis, 2021, 129, 438-451.	0.9	54
11	Ctenophore population recruits entirely through larval reproduction in the central Baltic Sea. Biology Letters, 2012, 8, 809-812.	1.0	53
12	Estimating spatio-temporal dynamics of size-structured populations. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 326-336.	0.7	50
13	Vertical migration and dispersion of sprat (Sprattus sprattus) and herring (Clupea harengus) schools at dusk in the Baltic Sea. Aquatic Living Resources, 2003, 16, 317-324.	0.5	49
14	The evolutionary pressure from fishing on size at maturation of Baltic cod. Ecological Modelling, 2007, 204, 246-252.	1.2	43
15	Modelling the attack success of planktonic predators: patterns and mechanisms of prey size selectivity. Journal of Plankton Research, 2000, 22, 1871-1871.	0.8	42
16	Random motility of plankton: diffusive and aggregative contributions. Journal of Plankton Research, 2003, 25, 1157-1168.	0.8	36
17	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
18	How to estimate scavenger fish abundance using baited camera data. Marine Ecology - Progress Series, 2007, 350, 223-234.	0.9	35

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19	Geolocating Fish Using Hidden Markov Models and Data Storage Tags. Reviews: Methods and Technologies in Fish Biology and Fisheries, 2009, , 277-293.	0.6	34
20	Simulating vertical turbulent dispersal with finite volumes and binned random walks. Marine Ecology - Progress Series, 2007, 347, 145-153.	0.9	34
21	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
22	Trait diversity promotes stability of community dynamics. Theoretical Ecology, 2013, 6, 57-69.	0.4	32
23	Blind datingÂ—mate finding in planktonic copepods. II. The pheromone cloud of Pseudocalanus elongatus. Marine Ecology - Progress Series, 2005, 300, 117-128.	0.9	32
24	Diel vertical migration arising in a habitat selection game. Theoretical Ecology, 2013, 6, 241-251.	0.4	29
25	Geolocation of Atlantic cod (Gadus morhua) movements in the Gulf of Maine using tidal information. Fisheries Oceanography, 2007, 16, 317-335.	0.9	27
26	Linking individual behaviour and migration success inSalmo salarsmolts approaching a water withdrawal site: implications for management. Aquatic Living Resources, 2011, 24, 201-209.	0.5	24
27	Dynamic optimal foraging theory explains vertical migrations of Bigeye tuna. Ecology, 2016, 97, 1852-1861.	1.5	23
28	Oceanic diel vertical migrations arising from a predator-prey game. Theoretical Ecology, 2019, 12, 17-29.	0.4	23
29	Limits to the reliability of size-based fishing status estimation for data-poor stocks. Fisheries Research, 2015, 171, 4-11.	0.9	22
30	Estimating uncertainty of data limited stock assessments. ICES Journal of Marine Science, 2017, 74, 69-77.	1.2	22
31	Trophic interactions drive the emergence of diel vertical migration patterns: a game-theoretic model of copepod communities. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191645.	1.2	22
32	How to reverse time in stochastic particle tracking models. Journal of Marine Systems, 2011, 88, 159-168.	0.9	20
33	An effective algorithm for approximating adaptive behavior in seasonal environments. Ecological Modelling, 2015, 311, 20-30.	1.2	19
34	Migration, distribution and population (stock) structure of shallow-water hake (Merluccius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Tc model. Fisheries Research, 2016, 179, 156-167.	0.9	19
35	Higher Order Moments and Conditional Asymptotics of the Batch Markovian Arrival Process. Stochastic Models, 2007, 23, 1-26.	0.3	14
36	Choosing the observational likelihood in state-space stock assessment models. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 779-789.	0.7	14

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37	Nonlinear tracking in a diffusion process with a Bayesian filter and the finite element method. Computational Statistics and Data Analysis, 2011, 55, 280-290.	0.7	12
38	Spatio-temporal pattern formation in predator-prey systems with fitness taxis. Ecological Complexity, 2018, 34, 44-57.	1.4	12
39	Migration routes and habitat use of a highly adaptable salmonid (sea trout, Salmo trutta) in a complex marine area. Animal Biotelemetry, 2019, 7, .	0.8	11
40	Hake species (Merluccius capensis and M. paradoxus) assessment in the Benguela Current Large Marine Ecosystem. Environmental Development, 2016, 17, 193-201.	1.8	9
41	Connecting single-stock assessment models through correlated survival. ICES Journal of Marine Science, 2018, 75, 235-244.	1.2	9
42	Optimal navigation and behavioural traits in oceanic migrations. Theoretical Ecology, 2020, 13, 583-593.	0.4	9
43	Length measurement methods of Atlantic mackerel (Scomber scombrus) and Atlantic horse mackerel (Trachurus trachurus) â€“ current practice, conversion keys and recommendations. Fisheries Research, 2018, 205, 57-64.	0.9	7
44	Eulerian techniques for individual-based models with additive components. Journal of Marine Systems, 2007, 67, 179-188.	0.9	6
45	Size-dependent diffusion promotes the emergence of spatiotemporal patterns. Physical Review E, 2014, 90, 012904.	0.8	6
46	Lessons from a Prototype Geolocation Problem. Reviews: Methods and Technologies in Fish Biology and Fisheries, 2009, , 257-276.	0.6	6
47	Intercalibration of survey methods using paired fishing operations and log-Gaussian Cox processes. ICES Journal of Marine Science, 2019, 76, 1189-1199.	1.2	5
48	Diffusive transport in Stokeslet flow and its application to plankton ecology. Journal of Mathematical Biology, 2006, 53, 1-14.	0.8	4
49	Seasonal strategies in the worldâ€™s oceans. Progress in Oceanography, 2020, 189, 102466.	1.5	4
50	Mating success and sexual selection in a pelagic copepod, Temora longicornis : Evidence from paternity analyses. Limnology and Oceanography, 2015, 60, 600-610.	1.6	3
51	Dynamics of a physiologically structured population in a time-varying environment. Ecological Complexity, 2016, 28, 54-61.	1.4	3
52	A Stochastic Spatio-Temporal Model of the Flow-Front Dynamics in a Vacuum Assisted Resin Transfer Moulding Process. IFAC-PapersOnLine, 2018, 51, 383-388.	0.5	3
53	A Matlab environment for analysis of fluid flow and transport around a translating sphere. Marine Models, 2002, 2, 35-56.	0.0	2
54	Spatial drivers of instability in marine size-spectrum ecosystems. Journal of Theoretical Biology, 2021, 517, 110631.	0.8	2

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55	Ideal free flows of optimal foragers: Vertical migrations in the ocean. Theoretical Ecology, 2022, 15, 213-224.	0.4	2
56	Solving multispecies population games in continuous space and time. Theoretical Population Biology, 2022, 146, 36-45.	0.5	2
57	A Diffusion Approximation Based on Renewal Processes with Applications to Strongly Biased Runâ€“Tumble Motion. Bulletin of Mathematical Biology, 2016, 78, 556-579.	0.9	1
58	Physics Informed Stochastic Grey-Box Model of the Flow-Front in a Vacuum Assisted Resin Transfer Moulding Process with Missing Data. IFAC-PapersOnLine, 2021, 54, 797-802.	0.5	1
59	Evolution of toxins as a public good in phytoplankton. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, .	1.2	1
60	Behavior-Dependent Senescence in Pelagic Copepods. Bulletin of the Ecological Society of America, 2015, 96, 651-653.	0.2	0