

Christian MÃ¶llmann

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

6,615
citations

53794

45
h-index

66911

78
g-index

114
all docs

114
docs citations

114
times ranked

5934
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating diverse model results into decision support for good environmental status and blue growth. <i>Science of the Total Environment</i> , 2022, 806, 150450.	8.0	10
2	Environmental controls of billfish species in the Indian Ocean and implications for their management and conservation. <i>Diversity and Distributions</i> , 2022, 28, 1554-1567.	4.1	8
3	Length-weight relationships of 55 mesopelagic fishes from the eastern tropical North Atlantic: Across- and within-species variation (body shape, growth stanza, condition factor). <i>Journal of Fish Biology</i> , 2022, 101, 26-41.	1.6	9
4	Traits, landmarks and outlines: Three congruent sides of a tale on coral reef fish morphology. <i>Ecology and Evolution</i> , 2022, 12, e8787.	1.9	1
5	The forgotten feeding ground: patterns in seasonal and depth-specific food intake of adult cod <i>Gadus morhua</i> in the western Baltic Sea. <i>Journal of Fish Biology</i> , 2021, 98, 707-722.	1.6	16
6	Perception and Conflict in Conservation: The Rashomon Effect. <i>BioScience</i> , 2021, 71, 64-72.	4.9	15
7	The rise of novelty in marine ecosystems: The Baltic Sea case. <i>Global Change Biology</i> , 2021, 27, 1485-1499.	9.5	14
8	The Baltic Health Index (BHI): Assessing the social-ecological status of the Baltic Sea. <i>People and Nature</i> , 2021, 3, 359-375.	3.7	21
9	Winter zooplankton dynamics in the English Channel and southern North Sea: trends and drivers from 1991 to 2013. <i>Journal of Plankton Research</i> , 2021, 43, 244-256.	1.8	3
10	AIS and VMS Ensemble Can Address Data Gaps on Fisheries for Marine Spatial Planning. <i>Sustainability</i> , 2021, 13, 3769.	3.2	21
11	Modeling and understanding social-ecological knowledge diversity. <i>Conservation Science and Practice</i> , 2021, 3, e396.	2.0	8
12	Tipping point realized in cod fishery. <i>Scientific Reports</i> , 2021, 11, 14259.	3.3	46
13	Community structure of mesopelagic fishes constituting sound scattering layers in the eastern tropical North Atlantic. <i>Journal of Marine Systems</i> , 2021, 224, 103635.	2.1	10
14	Towards Non-invasive Fish Monitoring in Hard-to-Access Habitats Using Autonomous Underwater Vehicles and Machine Learning. , 2021, , .		1
15	Non-linearity in stock-recruitment relationships of Atlantic cod: insights from a multi-model approach. <i>ICES Journal of Marine Science</i> , 2020, 77, 1492-1502.	2.5	23
16	Predation risk triggers copepod small-scale behavior in the Baltic Sea. <i>Journal of Plankton Research</i> , 2020, 42, 702-713.	1.8	1
17	Life Cycle Dynamics of a Key Marine Species Under Multiple Stressors. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	18
18	Insights on integrating habitat preferences in process-oriented ecological models – a case study of the southern North Sea. <i>Ecological Modelling</i> , 2020, 431, 109189.	2.5	15

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19	Case studies demonstrate capacity for a structured planning process for ecosystem-based fisheries management. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 1256-1274.	1.4	7
20	Spatial variation in the trophic structure of micronekton assemblages from the eastern tropical North Atlantic in two regions of differing productivity and oxygen environments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 163, 103275.	1.4	14
21	Gillnet fishers' knowledge reveals seasonality in depth and habitat use of cod (<i>Gadus morhua</i>) in the Western Baltic Sea. <i>ICES Journal of Marine Science</i> , 2020, 77, 1816-1829.	2.5	22
22	Exploring the temporal variability of a food web using long-term biomonitoring data. <i>Ecography</i> , 2019, 42, 2107-2121.	4.5	36
23	Trophic positioning of prominent copepods in the epi- and mesopelagic zone of the ultra-oligotrophic eastern Mediterranean Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 164, 144-155.	1.4	12
24	Zooplankton distribution, growth and respiration in the Cretan Passage, Eastern Mediterranean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 164, 156-169.	1.4	6
25	Catastrophic dynamics limit Atlantic cod recovery. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182877.	2.6	48
26	Marine fish traits follow fast-slow continuum across oceans. <i>Scientific Reports</i> , 2019, 9, 17878.	3.3	38
27	Evidence for limited adaptive responsiveness to large-scale spatial variation of habitat quality. <i>Marine Ecology - Progress Series</i> , 2019, 629, 179-191.	1.9	7
28	Building effective fishery ecosystem plans. <i>Marine Policy</i> , 2018, 92, 48-57.	3.2	51
29	Water masses and oceanic eddy regulation of larval fish assemblages along the Cape Verde Frontal Zone. <i>Journal of Marine Systems</i> , 2018, 183, 42-55.	2.1	15
30	Ecosystem-Based Fisheries Management for Social-Ecological Systems: Renewing the Focus in the United States with <i>Next Generation</i> Fishery Ecosystem Plans. <i>Conservation Letters</i> , 2018, 11, e12367.	5.7	68
31	A three-dimensional view on biodiversity changes: spatial, temporal, and functional perspectives on fish communities in the Baltic Sea. <i>ICES Journal of Marine Science</i> , 2018, 75, 2463-2475.	2.5	7
32	A morphometric dive into fish diversity. <i>Ecosphere</i> , 2018, 9, e02220.	2.2	15
33	Trophic decoupling of mesozooplankton production and the pelagic planktivores sprat <i>Sprattus sprattus</i> and herring <i>Clupea harengus</i> in the Central Baltic Sea. <i>Marine Ecology - Progress Series</i> , 2018, 592, 181-196.	1.9	9
34	Interaction between top-down and bottom-up control in marine food webs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1952-1957.	7.1	202
35	Mapping fish community biodiversity for European marine policy requirements. <i>ICES Journal of Marine Science</i> , 2017, 74, 2223-2238.	2.5	2
36	Does upwelling intensity determine larval fish habitats in upwelling ecosystems? The case of Senegal and Mauritania. <i>Fisheries Oceanography</i> , 2017, 26, 655-667.	1.7	10

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37	Pelagic effects of offshore wind farm foundations in the stratified North Sea. <i>Progress in Oceanography</i> , 2017, 156, 154-173.	3.2	51
38	Ecological-Economic Fisheries Management Advice – Quantification of Potential Benefits for the Case of the Eastern Baltic COD Fishery. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	14
39	Community ecology in 3D: Tensor decomposition reveals spatio-temporal dynamics of large ecological communities. <i>PLoS ONE</i> , 2017, 12, e0188205.	2.5	19
40	Uses of Innovative Modeling Tools within the Implementation of the Marine Strategy Framework Directive. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	32
41	Valuing Biodiversity and Ecosystem Services in a Complex Marine Ecosystem. , 2015, , 189-207.		1
42	Effects of climate-induced habitat changes on a key zooplankton species. <i>Journal of Plankton Research</i> , 2015, 37, 530-541.	1.8	18
43	Climate and fishing steer ecosystem regeneration to uncertain economic futures. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142809.	2.6	52
44	Marine ecosystem regime shifts: challenges and opportunities for ecosystem-based management. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130275.	4.0	87
45	The importance of within-system spatial variation in drivers of marine ecosystem regime shifts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130271.	4.0	18
46	Marine regime shifts around the globe: theory, drivers and impacts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130260.	4.0	102
47	A holistic view of marine regime shifts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130279.	4.0	131
48	The North Sea – A shelf sea in the Anthropocene. <i>Journal of Marine Systems</i> , 2015, 141, 18-33.	2.1	99
49	Assessing Social – Ecological Trade-Offs to Advance Ecosystem-Based Fisheries Management. <i>PLoS ONE</i> , 2014, 9, e107811.	2.5	50
50	Bringing integrated ecosystem assessments to real life: a scientific framework for ICES. <i>ICES Journal of Marine Science</i> , 2014, 71, 1183-1186.	2.5	34
51	Implementing ecosystem-based fisheries management: from single-species to integrated ecosystem assessment and advice for Baltic Sea fish stocks. <i>ICES Journal of Marine Science</i> , 2014, 71, 1187-1197.	2.5	92
52	Habitat Heterogeneity Determines Climate Impact on Zooplankton Community Structure and Dynamics. <i>PLoS ONE</i> , 2014, 9, e90875.	2.5	25
53	Interactions among density, climate, and food web effects determine long-term life cycle dynamics of a key copepod. <i>Marine Ecology - Progress Series</i> , 2014, 498, 73-84.	1.9	15
54	Biological ensemble modeling to evaluate potential futures of living marine resources. <i>Ecological Applications</i> , 2013, 23, 742-754.	3.8	89

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55	Predator transitory spillover induces trophic cascades in ecological sinks. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8185-8189.	7.1	98
56	A novel length back-calculation approach accounting for ontogenetic changes in the fish length-otolith size relationship during the early life of sprat (<i>Sprattus sprattus</i>). Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 1214-1229.	1.4	14
57	Marine Ecosystem Regime Shifts Induced by Climate and Overfishing. Advances in Ecological Research, 2012, 47, 303-347.	2.7	118
58	Towards Integrated Ecosystem Assessments (IEAs) of the Baltic Sea: Investigating Ecosystem State and Historical Development. , 2012, , 161-199.		6
59	Early Detection of Ecosystem Regime Shifts: A Multiple Method Evaluation for Management Application. PLoS ONE, 2012, 7, e38410.	2.5	72
60	Marine snow, zooplankton and thin layers: indications of a trophic link from small-scale sampling with the Video Plankton Recorder. Marine Ecology - Progress Series, 2012, 468, 57-69.	1.9	77
61	The Role of Body Size in Complex Food Webs. Advances in Ecological Research, 2011, 45, 181-223.	2.7	79
62	Spatial and temporal density dependence regulates the condition of central Baltic Sea clupeids: compelling evidence using an extensive international acoustic survey. Population Ecology, 2011, 53, 511-523.	1.2	84
63	Comparative analysis of European wide marine ecosystem shifts: a large-scale approach for developing the basis for ecosystem-based management. Biology Letters, 2011, 7, 484-486.	2.3	18
64	Depleted marine fish stocks and ecosystem-based management: on the road to recovery, we need to be precautionary. ICES Journal of Marine Science, 2011, 68, 212-220.	2.5	16
65	Beauty is in the eye of the beholder: management of Baltic cod stock requires an ecosystem approach. Marine Ecology - Progress Series, 2011, 431, 293-297.	1.9	12
66	Sensitivity of marine systems to climate and fishing: Concepts, issues and management responses. Journal of Marine Systems, 2010, 79, 427-435.	2.1	235
67	Making the ecosystem approach operational-Can regime shifts in ecological- and governance systems facilitate the transition?. Marine Policy, 2010, 34, 1290-1299.	3.2	99
68	Feeding ecology of pelagic fish species in the Gulf of Riga (Baltic Sea): the importance of changes in the zooplankton community. Journal of Fish Biology, 2010, 77, 2268-2284.	1.6	28
69	Ecological forecasting under climate change: the case of Baltic cod. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2121-2130.	2.6	81
70	Comparative analysis of marine ecosystems: workshop on predator-prey interactions. Biology Letters, 2010, 6, 579-581.	2.3	16
71	Using indicators for evaluating, comparing, and communicating the ecological status of exploited marine ecosystems. 2. Setting the scene. ICES Journal of Marine Science, 2010, 67, 692-716.	2.5	156
72	Bio-manipulation: a tool in marine ecosystem management and restoration?. Ecological Applications, 2010, 20, 2237-2248.	3.8	16

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73	Regime shifts, resilience and recovery of a cod stock. <i>Marine Ecology - Progress Series</i> , 2010, 402, 239-253.	1.9	49
74	Dynamics of marine ecosystems: observation and experimentation. , 2010, , 129-178.		0
75	Preventing the collapse of the Baltic cod stock through an ecosystem-based management approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14722-14727.	7.1	124
76	A model-based evaluation of Marine Protected Areas: the example of eastern Baltic cod (<i>Gadus morhua</i>) Tj ETQq0 0,0 rgBT /Overlock 10	2.5	26
77	Reorganization of a large marine ecosystem due to atmospheric and anthropogenic pressure: a discontinuous regime shift in the Central Baltic Sea. <i>Global Change Biology</i> , 2009, 15, 1377-1393.	9.5	319
78	Resolving the effect of climate change on fish populations. <i>ICES Journal of Marine Science</i> , 2009, 66, 1570-1583.	2.5	537
79	Effect of environmental variability and spawner characteristics on the recruitment of Baltic herring <i>Clupea harengus</i> populations. <i>Marine Ecology - Progress Series</i> , 2009, 388, 221-234.	1.9	47
80	Process-based model for direct and indirect effects of hydrographic conditions on Central Baltic cod (<i>Gadus morhua</i>) egg mortality. <i>Fisheries Oceanography</i> , 2008, 17, 84-88.	1.7	0
81	Climate-related Marine Ecosystem Change. , 2008, , 309-377.		12
82	Effects of climate and overfishing on zooplankton dynamics and ecosystem structure: regime shifts, trophic cascade, and feedback loops in a simple ecosystem. <i>ICES Journal of Marine Science</i> , 2008, 65, 302-310.	2.5	216
83	Rationale for Restocking the Eastern Baltic Cod Stock. <i>Reviews in Fisheries Science</i> , 2008, 16, 58-64.	2.1	16
84	Impact of 21st century climate change on the Baltic Sea fish community and fisheries. <i>Global Change Biology</i> , 2007, 13, 1348-1367.	9.5	165
85	Vertical zonation of the zooplankton community in the Central Baltic Sea in relation to hydrographic stratification as revealed by multivariate discriminant function and canonical analysis. <i>Journal of Marine Systems</i> , 2007, 67, 47-58.	2.1	16
86	Feeding ecology of Central Baltic sprat <i>Sprattus sprattus</i> larvae in relation to zooplankton dynamics: implications for survival. <i>Marine Ecology - Progress Series</i> , 2007, 342, 277-289.	1.9	66
87	Recruitment variability in Baltic Sea sprat (<i>Sprattus sprattus</i>) is tightly coupled to temperature and transport patterns affecting the larval and early juvenile stages. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 2191-2201.	1.4	84
88	Spatio-temporal distribution and production of calanoid copepods in the central Baltic Sea. <i>Journal of Plankton Research</i> , 2006, 28, 39-54.	1.8	51
89	Survival probability of Baltic larval cod in relation to spatial overlap patterns with their prey obtained from drift model studies. <i>ICES Journal of Marine Science</i> , 2005, 62, 878-885.	2.5	19
90	Baltic cod recruitment â€œ the impact of climate variability on key processes. <i>ICES Journal of Marine Science</i> , 2005, 62, 1408-1425.	2.5	204

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91	Climate, zooplankton, and pelagic fish growth in the central Baltic Sea. ICES Journal of Marine Science, 2005, 62, 1270-1280.	2.5	120
92	Synchronous ecological regime shifts in the central Baltic and the North Sea in the late 1980s. ICES Journal of Marine Science, 2005, 62, 1205-1215.	2.5	318
93	Spatio-temporal distribution of <i>Oithona similis</i> in the Bornholm Basin (Central Baltic Sea). Journal of Plankton Research, 2004, 26, 659-668.	1.8	34
94	Feeding ecology of central Baltic Sea herring and sprat. Journal of Fish Biology, 2004, 65, 1563-1581.	1.6	148
95	Dependency of larval fish survival on retention/dispersion in food limited environments: the Baltic Sea as a case study. Fisheries Oceanography, 2003, 12, 425-433.	1.7	44
96	The marine copepod, <i>Pseudocalanus elongatus</i> , as a mediator between climate variability and fisheries in the Central Baltic Sea. Fisheries Oceanography, 2003, 12, 360-368.	1.7	91
97	Scientific knowledge of biological processes potentially useful in fish stock predictions. Scientia Marina, 2003, 67, 101-127.	0.6	23
98	Recruitment of Baltic cod and sprat stocks: identification of critical life stages and incorporation of environmental variability into stock-recruitment relationships. Scientia Marina, 2003, 67, 129-154.	0.6	117
99	Population dynamics of calanoid copepods and the implications of their predation by clupeid fish in the Central Baltic Sea. Journal of Plankton Research, 2002, 24, 959-978.	1.8	91
100	Biophysical modeling of larval Baltic cod (<i>Gadus morhua</i>) growth and survival. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 1858-1873.	1.4	118
101	Long-term trends in abundance of cladocerans in the Central Baltic Sea. Marine Biology, 2002, 141, 343-352.	1.5	18
102	Developing Baltic cod recruitment models. I. Resolving spatial and temporal dynamics of spawning stock and recruitment for cod, herring, and sprat. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1516-1533.	1.4	56
103	Trophic dynamics. , 2001, , 112-157.		52
104	Developing Baltic cod recruitment models. I. Resolving spatial and temporal dynamics of spawning stock and recruitment for cod, herring, and sprat. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1516-1533.	1.4	18
105	Trophodynamic control by clupeid predators on recruitment success in Baltic cod?. ICES Journal of Marine Science, 2000, 57, 310-323.	2.5	192
106	Long-term dynamics of main mesozooplankton species in the central Baltic Sea. Journal of Plankton Research, 2000, 22, 2015-2038.	1.8	141
107	Egg cannibalism in Baltic sprat <i>Sprattus sprattus</i> . Marine Ecology - Progress Series, 2000, 196, 269-277.	1.9	47
108	Food consumption by clupeids in the Central Baltic: evidence for top-down control?. ICES Journal of Marine Science, 1999, 56, 100-113.	2.5	51

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109	Fish Stock Development under Hydrographic and Hydrochemical Aspects, the History of Baltic Sea Fisheries and Its Management. , 0 , 543-581.		8
110	Food-web and climate-related dynamics in the Baltic Sea: present and potential future applications in fish stock assessment and management. , 0 , 9-31.		6