Erik Bonsdorff

List of Publications by Year
in descending order

122 papers	7,230 citations	66343 42 h-index	62596 80 g-index
122 all docs	122 docs citations	122 times ranked	5939 citing authors

#	Article	IF	Citations
1	Hypoxia-Related Processes in the Baltic Sea. Environmental Science & Technology, 2009, 43, 3412-3420.	10.0	470
2	Hypoxia Is Increasing in the Coastal Zone of the Baltic Sea. Environmental Science & Technology, 2011, 45, 6777-6783.	10.0	364
3	The Baltic Sea as a time machine for the future coastal ocean. Science Advances, 2018, 4, eaar8195.	10.3	339
4	The importance of benthicâ€"pelagic coupling for marine ecosystem functioning in a changing world. Global Change Biology, 2017, 23, 2179-2196.	9.5	294
5	Coastal eutrophication: Causes, consequences and perspectives in the Archipelago areas of the northern Baltic Sea. Estuarine, Coastal and Shelf Science, 1997, 44, 63-72.	2.1	235
6	Community structure and spatial variation of benthic invertebrates associated with Zostera marina (L.) beds in the northern Baltic Sea. Journal of Sea Research, 1997, 37, 153-166.	1.6	224
7	Drifting algal mats as an alternative habitat for benthic invertebrates:. Journal of Experimental Marine Biology and Ecology, 2000, 248, 79-104.	1.5	200
8	Rapid zoobenthic community responses to accumulations of drifting algae. Marine Ecology - Progress Series, 1996, 131, 143-157.	1.9	189
9	Importance of functional biodiversity and species-specific traits of benthic fauna for ecosystem functions in marine sediment. Marine Ecology - Progress Series, 2007, 332, 11-23.	1.9	187
10	Zoobenthic diversity-gradients in the Baltic Sea: Continuous post-glacial succession in a stressed ecosystem. Journal of Experimental Marine Biology and Ecology, 2006, 330, 383-391.	1.5	185
11	Variation in the sublittoral macrozoobenthos of the Baltic Sea along environmental gradients: A functional-group approach. Austral Ecology, 1999, 24, 312-326.	1.5	172
12	Population responses of coastal zoobenthos to stress induced by drifting algal mats. Marine Ecology - Progress Series, 1996, 140, 141-151.	1.9	160
13	Hypoxia in the Baltic Sea: Biogeochemical Cycles, Benthic Fauna, and Management. Ambio, 2014, 43, 26-36.	5.5	158
14	The Effect of Spatial and Temporal Heterogeneity on the Design and Analysis of Empirical Studies of Scaleâ€Dependent Systems. American Naturalist, 2007, 169, 398-408.	2.1	151
15	A welcome can of worms? Hypoxia mitigation by an invasive species. Global Change Biology, 2012, 18, 422-434.	9.5	148
16	Zoobenthic community establishment and habitat complexity-the importance of seagrass shoot-density, morphology and physical disturbance for faunal recruitment. Marine Ecology - Progress Series, 2000, 205, 123-138.	1.9	140
17	Drifting algae and zoobenthos â€" Effects on settling and community structure. Journal of Sea Research, 1992, 30, 57-62.	1.0	112
18	Baltic Sea eutrophication: area-specific ecological consequences. Hydrobiologia, 2004, 514, 227-241.	2.0	110

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19	The Impact of Benthic Macrofauna for Nutrient Fluxes from Baltic Sea Sediments. Ambio, 2007, 36, 161-167.	5.5	102
20	Food and feeding habits of juvenile flounder Platichthys flesus (L.), abd turbot Scophthalmus maximus L. in the Ã¥land archipelago, northern Baltic Sea. Journal of Sea Research, 1996, 36, 311-320.	1.6	97
21	Tackling Hypoxia in the Baltic Sea: Is Engineering a Solution?. Environmental Science & Technology, 2009, 43, 3407-3411.	10.0	95
22	Competition for the fish â€" fish extraction from the Baltic Sea by humans, aquatic mammals, and birds. ICES Journal of Marine Science, 2018, 75, 999-1008.	2.5	94
23	Fish predation and habitat complexity: are complexity thresholds real?. Journal of Experimental Marine Biology and Ecology, 1990, 141, 183-194.	1.5	89
24	Developing the multitrait concept for functional diversity: lessons from a system rich in functions but poor in species. Ecological Applications, 2012, 22, 2221-2236.	3.8	86
25	A conceptual framework for marine biodiversity and ecosystem functioning. Marine Ecology, 0, 28, 134-145.	1.1	82
26	Altered Benthic Preyâ€Availability Due to Episodic Oxygen Deficiency Caused by Drifting Algal Mats. Marine Ecology, 1996, 17, 355-372.	1.1	81
27	Predation as a mechanism of interference within infauna in shallow brackish water soft bottoms; experiments with an infauna predator, Nereis diversicolor O.F. MÃ¼ller. Journal of Experimental Marine Biology and Ecology, 1988, 116, 143-157.	1.5	76
28	Invertebrate dispersal and habitat heterogeneity: Expression of biological traits in a seagrass landscape. Journal of Experimental Marine Biology and Ecology, 2010, 390, 106-117.	1.5	70
29	Seasonal and inter-annual variation in occurrence and biomass of rooted macrophytes and drift algae in shallow bays. Estuarine, Coastal and Shelf Science, 2003, 56, 1167-1175.	2.1	66
30	Biomass, diversity and production of rocky shore macroalgae at two nutrient enrichment and wave action levels. Marine Biology, 2010, 157, 29-47.	1.5	65
31	Temporal and Spatial Large-Scale Effects of Eutrophication and Oxygen Deficiency on Benthic Fauna in Scandinavian and Baltic Waters â€šÃ„Ã¬ a Review. Oceanography and Marine Biology, 2002, , 427-489.	1.0	64
32	Marine benthic ecological functioning over decreasing taxonomic richness. Journal of Sea Research, 2015, 98, 49-56.	1.6	63
33	Factors regulating the coastal nutrient filter in the Baltic Sea. Ambio, 2020, 49, 1194-1210.	5.5	61
34	Long-term Changes of a Brackish-water Eelgrass (Zostera marina L.) Community Indicate Effects of Coastal Eutrophication. Estuarine, Coastal and Shelf Science, 2002, 55, 795-804.	2.1	60
35	Structural and functional shifts in zoobenthos induced by organic enrichment â€" Implications for community recovery potential. Journal of Sea Research, 2011, 65, 8-18.	1.6	55
36	Impact of eutrophication and climate change on fish and zoobenthos in coastal waters of the Baltic Sea. Marine Biology, 2015, 162, 141-151.	1.5	55

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37	Some ecological properties in relation to eutrophication in the Baltic Sea. Hydrobiologia, 2002, 475/476, 371-377.	2.0	54
38	Long-term changes in macrozoobenthos in the Ã…land archipelago, northern Baltic Sea. Journal of Sea Research, 2004, 52, 45-56.	1.6	54
39	Coastal habitats and their importance for the diversity of benthic communities: A species- and trait-based approach. Estuarine, Coastal and Shelf Science, 2019, 226, 106272.	2.1	52
40	Structuring zoobenthos: the importance of predation, siphon cropping and physical disturbance. Journal of Experimental Marine Biology and Ecology, 1995, 192, 125-144.	1.5	51
41	Life in the fast lane: macrobenthos use temporary drifting algal habitats. Journal of Sea Research, 2005, 53, 169-180.	1.6	47
42	Seasonal variation in abundance and diet of the sand goby <i>Pomatoschistus minutus</i> (Pallas) in a northern Baltic archipelago. Ophelia, 1993, 37, 19-30.	0.3	46
43	Long-term changes in coastal zoobenthos in the northern Baltic Sea: the role of abiotic environmental factors. ICES Journal of Marine Science, 2013, 70, 440-451.	2.5	46
44	A multivariate assessment of coastal eutrophication. Examples from the Gulf of Finland, northern Baltic Sea. Marine Pollution Bulletin, 2005, 50, 1185-1196.	5.0	43
45	Zoobenthos as Indicators of Ecological Status in Coastal Brackish Waters: A Comparative Study from the Baltic Sea. Ambio, 2007, 36, 250-256.	5.5	43
46	Maintained functional diversity in benthic communities in spite of diverging functional identities. Oikos, 2016, 125, 1421-1433.	2.7	43
47	Temporal variability of a benthic food web: patterns and processes in a low-diversity system. Marine Ecology - Progress Series, 2009, 378, 13-26.	1.9	42
48	Juvenile flounder, Platichthys flesus (L.), under hypoxia: effects on tolerance, ventilation rate and predation efficiency. Journal of Experimental Marine Biology and Ecology, 1999, 242, 75-93.	1.5	41
49	Modelling macrofaunal biomass in relation to hypoxia and nutrient loading. Journal of Marine Systems, 2012, 105-108, 60-69.	2.1	41
50	Regime shifts in marine communities: a complex systems perspective on food web dynamics. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152569.	2.6	41
51	Passing the gut of juvenile flounder, Platichthys flesus : differential survival of zoobenthic prey species. Marine Biology, 1997, 129, 11-14.	1.5	40
52	Predation by juvenile flounder (Platichthys flesus L.): a test of prey vulnerability, predator preference, switching behaviour and functional response. Journal of Experimental Marine Biology and Ecology, 1998, 227, 221-236.	1.5	40
53	Small-scale spatial structure of Baltic Sea zoobenthosâ€"inferring processes from patterns. Journal of Experimental Marine Biology and Ecology, 2002, 281, 123-136.	1.5	39
54	Effects of depth, sediment and grazers on the degradation of drifting filamentous algae (Cladophora) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 93-109.	1.5	37

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55	Coastal Habitats as Surrogates for Taxonomic, Functional and Trophic Structures of Benthic Faunal Communities. PLoS ONE, 2013, 8, e78910.	2.5	36
56	Exploring the temporal variability of a food web using longâ€term biomonitoring data. Ecography, 2019, 42, 2107-2121.	4.5	36
57	Giving Advice on Cost Effective Measures for a Cleaner Baltic Sea: A Challenge for Science. Ambio, 2001, 30, 254-259.	5.5	35
58	The Antonio Gramsci oil spill Impact on the littoral and benthic ecosystems. Marine Pollution Bulletin, 1981, 12, 301-305.	5.0	34
59	Opportunistic basal resource simplifies food web structure and functioning of a highly dynamic marine environment. Journal of Experimental Marine Biology and Ecology, 2016, 477, 92-102.	1.5	34
60	Characterization of soft-bottom benthic habitats of the Ã…land Islands, northern Baltic Sea. Marine Ecology - Progress Series, 1996, 142, 235-245.	1.9	34
61	Drifting filamentous algal mats disturb sediment fauna: Impacts on macroâ€"meiofaunal interactions. Journal of Experimental Marine Biology and Ecology, 2012, 420-421, 77-90.	1.5	33
62	The spreading of eutrophication in the eastern coast of the Gulf of Bothnia, northern Baltic Sea â€" An analysis in time and space. Estuarine, Coastal and Shelf Science, 2009, 82, 152-160.	2.1	32
63	Zoobenthos as an environmental quality element: the ecological significance of sampling design and functional traits. Marine Ecology, 2011, 32, 58-71.	1.1	32
64	Effects of macroalgal accumulations on the variability in zoobenthos of high-energy macrotidal sandy beaches. Marine Ecology - Progress Series, 2015, 522, 97-114.	1.9	32
65	Functional biodiversity of marine soft-sediment polychaetes from two Mediterranean coastal areas in relation to environmental stress. Marine Environmental Research, 2018, 137, 121-132.	2.5	32
66	Four decades of functional community change reveals gradual trends and low interlinkage across trophic groups in a large marine ecosystem. Global Change Biology, 2019, 25, 1235-1246.	9.5	32
67	Changes in zoobenthic community structure after pollution abatement from fish farms in the Archipelago Sea (N. Baltic Sea). Marine Environmental Research, 2001, 51, 229-245.	2.5	30
68	Drifting Algae as a means of Re-Colonizing Defaunated Sediments in the Baltic Sea. A Short-Term Microcosm Study. Hydrobiologia, 2006, 554, 83-95.	2.0	30
69	Ichnological trends along an open-water transect across a large marginal-marine epicontinental basin, the modern Baltic Sea. Sedimentary Geology, 2011, 241, 40-51.	2.1	30
70	Novel biodiversity baselines outpace models of fish distribution in Arctic waters. Die Naturwissenschaften, 2016, 103, 8.	1.6	30
71	Ecosystem Variability and Gradients. Examples from the Baltic Sea as a Background for Hazard Assessment. Springer Series on Environmental Management, 1989, , 6-58.	0.3	29
72	Baltic Sea eutrophication: area-specific ecological consequences. , 2004, , 227-241.		29

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73	Disentangling temporal food web dynamics facilitates understanding of ecosystem functioning. Journal of Animal Ecology, 2021, 90, 1205-1216.	2.8	28
74	Global climate change and the Baltic Sea ecosystem: direct and indirect effects on species, communities and ecosystem functioning. Earth System Dynamics, 2022, 13, 711-747.	7.1	28
75	Nestedness of trophic links and biological traits in a marine food web. Ecosphere, 2015, 6, 1-14.	2.2	26
76	Context-dependent consequences of Marenzelleria spp. (Spionidae: Polychaeta) invasion for nutrient cycling in the Northern Baltic Sea. Oceanologia, 2015, 57, 342-348.	2.2	25
77	Connecting the Seas of Norden. Nature Climate Change, 2015, 5, 89-92.	18.8	25
78	Ecological coherence of Marine Protected Areas: New tools applied to the Baltic Sea network. Aquatic Conservation: Marine and Freshwater Ecosystems, 2020, 30, 743-760.	2.0	25
79	Temporal and Spatial Variability of Zoobenthic Communities in Archipelago Waters of the Northern Baltic Sea-Consequences of Eutrophication?. International Review of Hydrobiology, 1991, 76, 433-449.	0.6	24
80	Fauna of the green alga Cladophora glomerata in the Baltic Sea: density, diversity, and algal decomposition stage. Marine Biology, 2013, 160, 2353-2362.	1.5	24
81	Baltic Sea: A Recovering Future From Decades of Eutrophication. , 2019, , 343-362.		24
82	Large-scale effects of green tides on macrotidal sandy beaches: Habitat-specific responses of zoobenthos. Estuarine, Coastal and Shelf Science, 2015, 164, 379-391.	2.1	23
83	Eutrophication: Early warning signals, ecosystem-level and societal responses, and ways forward. Ambio, 2021, 50, 753-758.	5.5	21
84	A neighbour is a neighbour? Consumer diversity, trophic function, and spatial variability in benthic food webs. Journal of Experimental Marine Biology and Ecology, 2010, 391, 101-111.	1.5	20
85	Scale-dependent distribution of soft-bottom infauna and possible structuring forces in low diversity systems. Marine Ecology - Progress Series, 2011, 426, 13-28.	1.9	20
86	Long-term progression and drivers of coastal zoobenthos in a changing system. Marine Ecology - Progress Series, 2015, 528, 141-159.	1.9	20
87	The Effects of Reduced Oxygen Content on Predation and Siphon Cropping by the Brown Shrimp, <i>Crangon crangon</i>. Marine Ecology, 1996, 17, 411-423.	1.1	18
88	The impact of infauna (Nereis diversicolor and Saduria entomon) on the redistribution and biomass of macroalgae on marine soft bottoms. Journal of Experimental Marine Biology and Ecology, 2006, 333, 58-70.	1.5	17
89	The food web positioning and trophic niche of the non-indigenous round goby: a comparison between two Baltic Sea populations. Hydrobiologia, 2018, 822, 111-128.	2.0	17
90	Fate and effects of Ekofisk crude oil in the littoral of a Norwegian fjord. Sarsia, 1981, 66, 231-240.	0.5	16

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91	Environmental context and trophic trait plasticity in a key species, the tellinid clam Macoma balthica L.. Journal of Experimental Marine Biology and Ecology, 2015, 472, 32-40.	1.5	16
92	Effects of experimental oil exposure on the fauna associated withCorallina officinalisL. in intertidal rock pools. Sarsia, 1983, 68, 149-155.	0.5	15
93	Thiaminase Activity of Crucian Carp <i>Carassius carassius</i> Injected with a Bacterial Fish Pathogen, <i>Aeromonas salmonicida</i> subsp<i>. salmonicida</i>. Journal of Aquatic Animal Health, 2009, 21, 217-228.	1.4	13
94	Food web positioning of a recent coloniser: the North American Harris mud crab Rhithropanopeus harrisii (Gould, 1841) in the northern Baltic Sea. Aquatic Invasions, 2015, 10, 399-413.	1.6	13
95	Organic enrichment simplifies marine benthic food web structure. Limnology and Oceanography, 2017, 62, 2179-2188.	3.1	12
96	Impact of round goby on native invertebrate communities - An experimental field study. Journal of Experimental Marine Biology and Ecology, 2021, 541, 151571.	1.5	12
97	Effects of predation and oxygen deficiency on different age classes of the amphipod Monoporeia affinis. Journal of Sea Research, 1996, 35, 345-351.	1.6	11
98	The relative impact of physical disturbance and predation by<i>Crangon crangon</i>on population density in<i>Capitella capitata</i>: An experimental study. Ophelia, 1997, 46, 1-10.	0.3	11
99	Seasonal small-scale variation in distribution among depth zones in a coastal Baltic Sea fish assemblage. ICES Journal of Marine Science, 2015, 72, 2374-2384.	2.5	11
100	Green tides on inter- and subtidal sandy shores: differential impacts on infauna and flatfish. Journal of the Marine Biological Association of the United Kingdom, 2018, 98, 699-712.	0.8	11
101	Temporal and spatial variation of dominant pelagic Copepoda (Crustacea) in the Weddell Sea (Southern Ocean) 1929 to 1993. Polar Biology, 1997, 18, 280-291.	1.2	10
102	Brackish-Water Benthic Fauna Under Fluctuating Environmental Conditions: The Role of Eutrophication, Hypoxia, and Global Change. Frontiers in Marine Science, 2019, 6, .	2.5	10
103	Habitat utilization and feeding ecology of small round goby in a shallow brackish lagoon. Marine Biodiversity, 2020, 50, 1.	1.0	10
104	Attuning to a changing ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20363-20371.	7.1	9
105	Biodiversity, feeding habits and reproductive strategies of benthic macrofauna in a protected area of the northern Adriatic Sea: a three-year study. Mediterranean Marine Science, 2017, 18, 292.	1.6	9
106	The Role of Drifting Algae for Marine Biodiversity. , 2016, , 100-123.		8
107	Appetite and food consumption in the sea urchin Echinus esculantes L.. Sarsia, 1983, 68, 25-27.	0.5	7
108	Mesograzer identity, not host algae, determines consumer stable isotope ratios. Marine Biology Research, 2016, 12, 186-192.	0.7	7

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109	Epibenthic megafauna communities in Northeast Greenland vary across coastal, continental shelf and slope habitats. Polar Biology, 2020, 43, 1623-1642.	1.2	7
110	Food web assessments in the Baltic Sea: Models bridging the gap between indicators and policy needs. Ambio, 2022, 51, 1687-1697.	5.5	7
111	The use of the log-normal distribution of individuals among species in monitoring zoobenthos in the northern Baltic archipelago. Marine Pollution Bulletin, 1982, 13, 324-327.	5.0	6
112	Infaunal responses to seagrass habitat structure: A study of life-history traits and population dynamics of Corophium volutator (Pallas). Marine Biology Research, 2006, 2, 398-410.	0.7	6
113	Identifying biotic drivers of population dynamics in a benthicâ€“pelagic community. Ecology and Evolution, 2021, 11, 4035-4045.	1.9	5
114	Trait-based predation suitability offers insight into effects of changing prey communities. PeerJ, 2018, 6, e5899.	2.0	5
115	Eutrophication and hypoxia: impacts of nutrient and organic enrichment. , 0, , 202-243.		3
116	Baltic Sea ecosystem-based management under climate change: Integrating social and ecological perspectives. Ambio, 2015, 44, 333-334.	5.5	3
117	Seasonal shifts in the vertical distribution of fish in a shallow coastal area. ICES Journal of Marine Science, 2016, 73, 2278-2287.	2.5	3
118	Response to comments by Heikinheimo et al. (in press) on Hansson et al. (2018): competition for the fishâ€"fish extraction from the Baltic Sea by humans, aquatic mammals, and birds. ICES Journal of Marine Science, 2018, 75, 1837-1839.	2.5	3
119	Deep soft seabeds. , 2017, , 359-385.		2
120	The wicked ocean. Ambio, 2018, 47, 265-268.	5.5	2
121	Predation risk and competition affect habitat use of adult perch, Perca fluviatilis. Journal of Fish Biology, 2020, 96, 669-680.	1.6	2
122	Effect of the abundance of three predominating copepod species on adequate sample volume and sample size in Bransfield Strait (Antarctic Peninsula) and waters north of the Weddell Sea. Polar Biology, 1992, 12, 679.	1.2	1