Erik Kristensen

List of Publications by Year in descending order

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123 papers 9,659 citations

28190 55 h-index 95 g-index

127 all docs

127 docs citations

127 times ranked

6399 citing authors

#	Article	IF	CITATIONS
1	Organic carbon dynamics in mangrove ecosystems: A review. Aquatic Botany, 2008, 89, 201-219.	0.8	966
2	Mangrove production and carbon sinks: A revision of global budget estimates. Global Biogeochemical Cycles, 2008, 22, .	1.9	812
3	Title is missing!. Hydrobiologia, 2000, 426, 1-24.	1.0	507
4	Mangrove crabs as ecosystem engineers; with emphasis on sediment processes. Journal of Sea Research, 2008, 59, 30-43.	0.6	408
5	Aerobic and anaerobic decomposition of organic matter in marine sediment: Which is fastest?. Limnology and Oceanography, 1995, 40, 1430-1437.	1.6	329
6	The fate of organic carbon and nitrogen in experimental marine sediment systems: Influence of bioturbation and anoxia. Journal of Marine Research, 1987, 45, 231-257.	0.3	270
7	Decomposition of plant materials in marine sediment exposed to different electron acceptors (O2,) Tj ETQq1 1 0 bioturbation. Geochimica Et Cosmochimica Acta, 2001, 65, 419-433.	0.784314 r 1.6	rgBT /Overlock 232
8	Determination of organic carbon in marine sediments: a comparison of two CHN-analyzer methods. Journal of Experimental Marine Biology and Ecology, 1987, 109, 15-23.	0.7	217
9	Control by fiddler crabs (<i>Uca vocans</i>) and plant roots (<i>Avicennia marina</i>) on carbon, iron, and sulfur biogeochemistry in mangrove sediment. Limnology and Oceanography, 2006, 51, 1557-1571.	1.6	201
10	The rates and pathways of carbon oxidation in bioturbated saltmarsh sediments. Limnology and Oceanography, 2002, 47, 230-240.	1.6	170
11	Effects of two polychaete worms, Nereis diversicolor and Arenicola marina, on aerobic and anaerobic decomposition in a sandy marine sediment. Aquatic Microbial Ecology, 1999, 19, 189-204.	0.9	169
12	Impact of fiddler crabs and plant roots on sediment biogeochemistry in a Georgia saltmarsh. Marine Ecology - Progress Series, 2003, 259, 237-251.	0.9	153
13	Importance of intertidal sediment processes and porewater exchange on the water column biogeochemistry in a pristine mangrove creek (Ras Dege, Tanzania). Biogeosciences, 2007, 4, 311-322.	1.3	151
14	Carbon and nitrogen fluxes in sediment inhabited by suspension-feeding (Nereis diversicolor) and non-suspension-feeding (N. virens) polychaetes. Marine Ecology - Progress Series, 2000, 192, 203-217.	0.9	148
15	Impact of polychaetes (Nereis spp. and Arenicola marina) on carbon biogeochemistry in coastal marine sedimentsâ€. Geochemical Transactions, 2001, 2, 92.	1.8	145
16	Carbon and nitrogen mineralization in sediments of the Bangrong mangrove area, Phuket, Thailand. Aquatic Microbial Ecology, 2000, 22, 199-213.	0.9	141
17	Direct measurement of dissolved inorganic nitrogen exchange and denitrification in individual polychaete (<l>Nereis virens</l>) burrows. Journal of Marine Research, 1991, 49, 355-377.	0.3	129
18	The impact of polychaete (Nereis virens Sars) burrows on nitrification and nitrate reduction in estuarine sediments. Journal of Experimental Marine Biology and Ecology, 1985, 85, 75-91.	0.7	128

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19	Impact of Macrofaunal Recolonization on Benthic Metabolism and Nutrient Fluxes in a Shallow Marine Sediment Previously Overgrown with Macroalgal Mats. Estuarine, Coastal and Shelf Science, 1997, 45, 613-628.	0.9	111
20	Emission of CO2 and CH4 to the atmosphere by sediments and open waters in two Tanzanian mangrove forests. Marine Ecology - Progress Series, 2008, 370, 53-67.	0.9	109
21	Effects of benthic macrofauna and temperature on degradation of macroalgal detritus: The fate of organic carbon. Limnology and Oceanography, 1992, 37, 1404-1419.	1.6	107
22	Decay of plant detritus in organic-poor marine sediment: Production rates and stoichiometry of dissolved C and N compounds. Journal of Marine Research, 1995, 53, 675-702.	0.3	94
23	Influence of benthic macrofauna community shifts on ecosystem functioning in shallow estuaries. Frontiers in Marine Science, $2014, 1, \dots$	1.2	94
24	The impact of the polychaete Nereis diversicolor and enrichment with macroalgal (Chaetomorpha) Tj ETQq0 0 0 sediment. Journal of Experimental Marine Biology and Ecology, 1998, 231, 201-223.	rgBT /Ove 0.7	rlock 10 Tf 50 92
25	Microbial reaction rates and bacterial communities in sediment surrounding burrows of two nereidid polychaetes (Nereis diversicolor and N. virens). Marine Biology, 2006, 148, 541-550.	0.7	91
26	Seasonality of sulfate reduction and pore water solutes in a marine fish farm sediment: the importance of temperature and sedimentary organic matter. Biogeochemistry, 1996, 32, 15.	1.7	87
27	Burial of seeds and seedlings by the lugworm Arenicola marina hampers eelgrass (Zostera marina) recovery. Journal of Experimental Marine Biology and Ecology, 2011, 410, 45-52.	0.7	87
28	Sediment properties and bacterial community in burrows of the ghost shrimp Pestarella tyrrhena (Decapoda: Thalassinidea). Aquatic Microbial Ecology, 2005, 38, 181-190.	0.9	86
29	Effect of natural concentrations on nutrient exchange between a polychaete burrow in estuarine sediment and the overlying water. Journal of Experimental Marine Biology and Ecology, 1984, 75, 171-190.	0.7	84
30	Seasonal Variations in Benthic Community Metabolism and Nitrogen Dynamics in a Shallow, Organic-Poor Danish Lagoon. Estuarine, Coastal and Shelf Science, 1993, 36, 565-586.	0.9	81
31	The Influence of Water Column Hypoxia on the Behaviour of Manganese and Iron in Sandy Coastal Marine Sediment. Estuarine, Coastal and Shelf Science, 2002, 55, 645-654.	0.9	81
32	Impact of fiddler crabs (Uca spp.) on rates and pathways of benthic mineralization in deposited mangrove shrimp pond waste. Journal of Experimental Marine Biology and Ecology, 2003, 289, 59-81.	0.7	77
33	Carbon and nitrogen balance of leaf-eating sesarmid crabs (Neoepisesarma versicolor) offered different food sources. Estuarine, Coastal and Shelf Science, 2005, 65, 213-222.	0.9	77
34	Vulnerability of Zostera marina seedlings to physical stress. Marine Ecology - Progress Series, 2010, 418, 119-130.	0.9	77
35	Characterization of biogenic organic matter by stepwise thermogravimetry (STG). Biogeochemistry, 1990, 9, 135-159.	1.7	76
36	Transformation and transport of inorganic nitrogen in sediments of a southeast Asian mangrove forest. Aquatic Microbial Ecology, 1998, 15, 165-175.	0.9	75

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37	The importance of benthic macrofauna in decomposition of microalgae in a coastal marine sediment. Limnology and Oceanography, 1992, 37, 1392-1403.	1.6	74
38	Microbial carbon oxidation rates and pathways in sediments of two Tanzanian mangrove forests. Biogeochemistry, 2011, 103, 143-158.	1.7	72
39	Are fiddler crabs potentially useful ecosystem engineers in mangrove wastewater wetlands?. Marine Pollution Bulletin, 2009, 58, 1694-1703.	2.3	71
40	Effects of bioturbation and plant roots on salt marsh biogeochemistry: a mesocosm study. Marine Ecology - Progress Series, 2002, 241, 71-87.	0.9	71
41	Impact of the burrow-dwelling polychaete Nereis diversicolor on the degradation of fresh and aged macroalgal detritus in a coastal marine sediment. Marine Ecology - Progress Series, 2003, 265, 141-153.	0.9	70
42	Simultaneous study of particle reworking, irrigation transport and reaction rates in sediment bioturbated by the polychaetes Heteromastus and Marenzelleria. Journal of Experimental Marine Biology and Ecology, 2007, 352, 392-406.	0.7	69
43	Metabolic threshold and sulfide-buffering in diffusion controlled marine sediments impacted by continuous organic enrichment. Biogeochemistry, 2009, 95, 335-353.	1.7	69
44	Microscale distribution of oxygen and nitrate in sediment inhabited by Nereis diversicolor: spatial patterns and estimated reaction rates. Aquatic Microbial Ecology, 2004, 34, 23-32.	0.9	68
45	Benthic metabolism and sulfur cycling along an inundation gradient in a tidal Spartina anglica salt marsh. Limnology and Oceanography, 2003, 48, 2151-2162.	1.6	65
46	Impact of the soft-shell clam Mya arenaria on sulfate reduction in an intertidal sediment. Aquatic Microbial Ecology, 1996, 10, 181-194.	0.9	65
47	Effects of sea level rise on growth of Spartina anglica and oxygen dynamics in rhizosphere and salt marsh sediments. Marine Ecology - Progress Series, 2002, 225, 197-204.	0.9	63
48	Nitrification and denitrification in Wadden Sea sediments (Königshafen, Island of Sylt, Germany) as measured by nitrogen isotope pairing and isotope dilution. Aquatic Microbial Ecology, 1996, 11, 181-191.	0.9	62
49	Biogeochemical cycling of sulfur and iron in sediments of a south-east Asian mangrove, Phuket Island, Thailand. Biogeochemistry, 1994, 26, 145.	1.7	61
50	Title is missing!. Hydrobiologia, 1997, 364, 65-74.	1.0	61
51	The Role of Water Movement and Spatial Scaling for Measurement of Dissolved Inorganic Nitrogen Fluxes in Intertidal Sediments. Estuarine, Coastal and Shelf Science, 1998, 46, 221-232.	0.9	60
52	Contrasting effects of the polychaetes Marenzelleria viridis and Nereis diversicolor on benthic metabolism and solute transport in sandy coastal sediment. Marine Ecology - Progress Series, 2011, 425, 125-139.	0.9	60
53	Sulfur, carbon, and nitrogen cycling in faunated marine sediments impacted by repeated organic enrichment. Marine Ecology - Progress Series, 2010, 400, 37-53.	0.9	59
54	Burrow ventilation and associated porewater irrigation by the polychaete Marenzelleria viridis. Journal of Experimental Marine Biology and Ecology, 2011, 397, 179-187.	0.7	59

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55	The importance of bacteria and microalgae in the diet of the deposit-feeding polychaete <i>Arenicola marina</i> . Ophelia, 2002, 56, 179-196.	0.3	58
56	Decomposition of macroalgae, vascular plants and sediment detritus in seawater: Use of stepwise thermogravimetry. Biogeochemistry, 1994, 26, 1-24.	1.7	57
57	Sulfate reduction, acetate turnover and carbon metabolism in sediments of the Ao Nam Bor mangrove, Phuket, Thailand. Marine Ecology - Progress Series, 1994, 109, 245-255.	0.9	54
58	Arctic herbivore diet can be inferred from stable carbon and nitrogen isotopes in C ₃ plants, faeces, and wool. Canadian Journal of Zoology, 2011, 89, 892-899.	0.4	53
59	Influence of bioturbating animals on flux of cadmium into estuarine sediment. Marine Environmental Research, 1998, 45, 403-415.	1.1	51
60	Transformation and exchange processes in the Bangrong mangrove forest-seagrass bed system, Thailand. Seasonal and spatial variations in benthic metabolism and sulfur biogeochemistry. Aquatic Microbial Ecology, 1999, 20, 203-212.	0.9	46
61	Factors influencing the distribution of nereid polychaetes in Danish coastal waters. Ophelia, 1988, 29, 127-140.	0.3	43
62	Arenicola marina (Polychaeta) and organic matter mineralisation in sandy marine sediments: In situ and microcosm comparison. Estuarine, Coastal and Shelf Science, 2007, 72, 213-222.	0.9	43
63	Food partitioning of leaf-eating mangrove crabs (Sesarminae): Experimental and stable isotope (13C and) Tj ETÇ	9q1 _{0.9} 0.78	4314 rgBT /C
64	Impact of the invasive polychaete Marenzelleria viridis on the biogeochemistry of sandy marine sediments. Biogeochemistry, 2013, 115, 95-109.	1.7	41
65	Organic matter mineralization in an organic-rich sediment: Experimental stimulation of sulfate reduction by fish food pellets. FEMS Microbiology Ecology, 1994, 14, 33-44.	1.3	40
66	Degradation of dissolved organic monomers and short-chain fatty acids in sandy marine sediment by fermentation and sulfate reduction. Geochimica Et Cosmochimica Acta, 2010, 74, 1593-1605.	1.6	40
67	Macrofaunal control of microbial community structure in continental margin sediments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15911-15922.	3.3	40
68	Anoxic Decomposition in Sediments from a Tropical Mangrove Forest and the Temperate Wadden Sea: Implications of N and P Addition Experiments. Estuarine, Coastal and Shelf Science, 2001, 53, 125-140.	0.9	39
69	Trophic discrimination of stable isotopes and potential food source partitioning by leafâ€eating crabs in mangrove environments. Limnology and Oceanography, 2017, 62, 2097-2112.	1.6	35
70	Impact of Arenicola marina (Polychaeta) on sediment sulfur dynamics. Aquatic Microbial Ecology, 2003, 33, 95-105.	0.9	35
71	Carbon mineralization pathways and bioturbation in coastal Brazilian sediments. Scientific Reports, 2015, 5, 16122.	1.6	34
72	Direct measurement of ventilation and oxygen uptake in three species of tubicolous polychaetes (Nereis spp.). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 145, 45-50.	0.7	32

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73	Carbon, nitrogen and phosphorus dynamics in creek water of a southeast Asian mangrove forest. Hydrobiologia, 2002, 474, 197-211.	1.0	32
74	Temporal behavior of manganese and iron in a sandy coastal sediment exposed to water column anoxia. Estuaries and Coasts, 2003, 26, 690-699.	1.7	31
75	Organic matter diagenesis at the oxic/anoxic interface in coastal marine sediments, with emphasis on the role of burrowing animals., 2000, , 1-24.		31
76	Impact of microphytobenthos and macroinfauna on temporal variation of benthic metabolism in shallow coastal sediments. Journal of Experimental Marine Biology and Ecology, 2007, 349, 99-112.	0.7	30
77	Leaf removal by sesarmid crabs in Bangrong mangrove forest, Phuket, Thailand; with emphasis on the feeding ecology of Neoepisesarma versicolor. Estuarine, Coastal and Shelf Science, 2008, 80, 573-580.	0.9	30
78	Title is missing!. Wetlands Ecology and Management, 2002, 10, 453-460.	0.7	29
79	The role of biogenic structures on the biogeochemical functioning of mangrove constructed wetlands sediments – A mesocosm approach. Marine Pollution Bulletin, 2010, 60, 560-572.	2.3	29
80	Influence of benthic macroinvertebrates on the erodability of estuarine cohesive sediments: Densityand biomass-specific responses. Estuarine, Coastal and Shelf Science, 2013, 134, 80-87.	0.9	29
81	Impact of Pestarella tyrrhena on benthic metabolism in sediment microcosms enriched with seagrass and macroalgal detritus. Marine Ecology - Progress Series, 2004, 281, 165-179.	0.9	28
82	Oxic and anoxic decomposition of tubes from the burrowing sea anemone <l>Ceriantheopsis americanus:</l> Implications for bulk sediment carbon and nitrogen balance. Journal of Marine Research, 1991, 49, 589-617.	0.3	27
83	The Iron and Manganese Cycles. Advances in Marine Biology, 2005, , 269-312.	0.7	27
84	Life cycle, growth and production in estuarine populations of the polychaetes Nereis virens and N. diversicolor. Ecography, 1984, 7, 249-250.	2.1	25
85	Variation in size and chemical composition of seeds from the seagrass Zostera marina—Ecological implications. Aquatic Botany, 2016, 131, 7-14.	0.8	25
86	Organic matter diagenesis in sediments on the continental shelf and slope of the Eastern Tropical and temperate North Pacific. Continental Shelf Research, 1999, 19, 1331-1351.	0.9	24
87	Heterotrophic Carbon Metabolism. Advances in Marine Biology, 2005, 48, 129-166.	0.7	24
88	The influence of infaunal (Nereis diversicolor) abundance on degradation of organic matter in sandy sediments. Journal of Experimental Marine Biology and Ecology, 2010, 393, 148-157.	0.7	24
89	Associations between macrobenthos and invasive cordgrass, Spartina anglica, in the Danish Wadden Sea. Helgoland Marine Research, 2010, 64, 321-329.	1.3	22
90	Dynamics of sigmaCO2 in a surficial sandy marine sediment: the role of chemoautotrophy. Aquatic Microbial Ecology, 1997, 12, 165-176.	0.9	22

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91	Title is missing!. Biogeochemistry, 1999, 45, 147-168.	1.7	19
92	Impact of polychaetes (Nereis spp. and Arenicola marina) on carbon biogeochemistry in coastal marine sedimentsPresented during the ACS Division of Geochemistry symposium ?Biogeochemical Consequences of Dynamic Interactions Between Benthic Fauna, Microbes and Aquatic Sediments?, San Diego, April 2001 Geochemical Transactions, 2001, 2, 92.	1.8	19
93	Title is missing!. Wetlands Ecology and Management, 2002, 10, 371-379.	0.7	17
94	Ecosystem engineering potential of the gastropod Terebralia palustris (Linnaeus, 1767) in mangrove wastewater wetlands – A controlled mesocosm experiment. Environmental Pollution, 2010, 158, 258-266.	3.7	17
95	Temporal changes in physical, chemical and biological sediment parameters in a tropical estuary after mangrove deforestation. Estuarine, Coastal and Shelf Science, 2014, 142, 32-40.	0.9	17
96	Diffusion scale dependent change in anaerobic carbon and nitrogen mineralization: True effect or experimental artifact?. Journal of Marine Research, 2005, 63, 645-669.	0.3	17
97	Biogeochemical Cycles: Global Approaches and Perspectives. , 2017, , 163-209.		16
98	Benthic macrofauna bioturbation and early colonization in newly flooded coastal habitats. PLoS ONE, 2018, 13, e0196097.	1.1	16
99	Do marine rooted plants grow in sediment or soil? A critical appraisal on definitions, methodology and communication. Earth-Science Reviews, 2015, 145, 1-8.	4.0	14
100	Sensitivity of Ruppia maritima and Zostera marina to sulfide exposure around roots. Journal of Experimental Marine Biology and Ecology, 2015, 468, 138-145.	0.7	14
101	Assessing methods for restoring seagrass (Zostera muelleri) in Australia's subtropical waters. Marine and Freshwater Research, 2020, 71, 996.	0.7	14
102	The Silicon Cycle. Advances in Marine Biology, 2005, 48, 441-463.	0.7	13
103	Distribution pattern of benthic invertebrates in Danish estuaries: The use of Taylor's power law as a species-specific indicator of dispersion and behavior. Journal of Sea Research, 2013, 77, 70-78.	0.6	13
104	Effects of mercury on the ventilation behaviour of the polychaete Nereis virens (Sars). Journal of Experimental Marine Biology and Ecology, 1994, 184, 67-81.	0.7	12
105	Organic carbon dynamics in a constructed mangrove wastewater wetland populated with benthic fauna: A modelling approach. Ecological Modelling, 2012, 232, 97-108.	1.2	12
106	Functional Performance of Three Invasive Marenzelleria Species Under Contrasting Ecological Conditions Within the Baltic Sea. Estuaries and Coasts, 2018, 41, 1766-1781.	1.0	12
107	Thermodynamics and Microbial Metabolism. Advances in Marine Biology, 2005, 48, 65-94.	0.7	11
108	Sediment reworking by the burrowing polychaete Hediste diversicolor modulated by environmental and biological factors across the temperate North Atlantic. A tribute to Gaston Desrosiers. Journal of Experimental Marine Biology and Ecology, 2021, 541, 151588.	0.7	10

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109	Carbon Fixation and Phototrophy. Advances in Marine Biology, 2005, 48, 95-127.	0.7	9
110	Bias-corrected Pearson estimating functions for Taylor's power law applied to benthic macrofauna data. Statistics and Probability Letters, 2011, 81, 749-758.	0.4	8
111	Seeing the Unseen—Bioturbation in 4D: Tracing Bioirrigation in Marine Sediment Using Positron Emission Tomography and Computed Tomography. PLoS ONE, 2015, 10, e0122201.	1.1	8
112	Nitrogen and Phosphorus Export After Flooding of Agricultural Land by Coastal Managed Realignment. Estuaries and Coasts, 2021, 44, 657-671.	1.0	8
113	Sand-capping – A large-scale approach to restore organic-enriched estuarine sediments. Marine Environmental Research, 2022, 173, 105534.	1.1	8
114	Sand-capping stabilizes muddy sediment and improves benthic light conditions in eutrophic estuaries: Laboratory verification and the potential for recovery of eelgrass (Zostera marina). Journal of Sea Research, 2022, 181, 102177.	0.6	8
115	Benthic metabolism and nitrogen transformations affected by fish cage farming in the tropical Nha Phu estuary (Vietnam). Marine and Freshwater Research, 2012, 63, 887.	0.7	5
116	Stable C and N Isotope Composition of Primary Producers and Consumers Along an Estuarine Salinity Gradient: Tracing Mixing Patterns and Trophic Discrimination. Estuaries and Coasts, 2019, 42, 144-156.	1.0	5
117	The role of biogenic structures for greenhouse gas balance in vegetated intertidal wetlands. , 2022, , 233-267.		4
118	Structure and Growth of Microbial Populations. Advances in Marine Biology, 2005, 48, 23-64.	0.7	2
119	Microbial Ecosystems. Advances in Marine Biology, 2005, 48, 465-506.	0.7	2
120	Internal Nutrient Loading Controls Macroalgal and Cyanobacterial Succession in a Coastal Lagoon Restored by Managed Realignment of Agricultural Land. Frontiers in Marine Science, 2021, 8, .	1.2	2
121	Diet-shift driven δ13C and δ15N changes in liver and muscle tissues of juvenile clownfish Amphiprion frenatus: A laboratory experiment. Journal of Experimental Marine Biology and Ecology, 2016, 475, 137-143.	0.7	1
122	Polychaete Invasion May Lead to Biogeochemical Change in Host Marine Environment. Journal of Marine Science and Engineering, 2020, 8, 940.	1,2	1
123	Spatial overlap between lugworm (Arenicola marina) and eelgrass (Zostera marina) distribution in coastal waters: The role of environmental stressors. Estuarine, Coastal and Shelf Science, 2022, 272, 107886.	0.9	1