

# Anders Stigebrandt

## List of Publications by Year in descending order

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82  
papers

3,703  
citations

109264

35  
h-index

133188

59  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2366  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport of Freshwater by the Oceans. <i>Journal of Physical Oceanography</i> , 1992, 22, 155-162.	0.7	242
2	A Model for the Exchange of Water and Salt Between the Baltic and the Skagerrak. <i>Journal of Physical Oceanography</i> , 1983, 13, 411-427.	0.7	161
3	Vertical Mixing in Basin Waters of Fjords. <i>Journal of Physical Oceanography</i> , 1989, 19, 917-926.	0.7	154
4	The North Pacific: A Global-Scale Estuary. <i>Journal of Physical Oceanography</i> , 1984, 14, 464-470.	0.7	145
5	A model for the dynamics of nutrients and oxygen in the Baltic proper. <i>Journal of Marine Research</i> , 1987, 45, 729-759.	0.3	135
6	A Model for the Vertical Circulation of the Baltic Deep Water. <i>Journal of Physical Oceanography</i> , 1987, 17, 1772-1785.	0.7	133
7	Vertical Diffusion Driven by Internal Waves in a Sill Fjord. <i>Journal of Physical Oceanography</i> , 1976, 6, 486-495.	0.7	130
8	A time-dependent budget model for nutrients in the Baltic Sea. <i>Global Biogeochemical Cycles</i> , 1989, 3, 63-78.	1.9	122
9	Regulating the local environmental impact of intensive marine fish farming. <i>Aquaculture</i> , 2004, 234, 239-261.	1.7	120
10	Computations of the geographical distribution of the energy flux to mixing processes via internal tides and the associated vertical circulation in the ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, 269-291.	1.6	108
11	Regulating the local environmental impact of intensive marine fish farming I. The concept of the MOM system (Modelling-Ongrowing fish farms-Monitoring). <i>Aquaculture</i> , 1997, 158, 85-94.	1.7	108
12	A Model for the Thickness and Salinity of the Upper Layer in the Arctic Ocean and the Relationship between the Ice Thickness and Some External Parameters. <i>Journal of Physical Oceanography</i> , 1981, 11, 1407-1422.	0.7	97
13	Response of the Baltic Sea to climate change—theory and observations. <i>Journal of Sea Research</i> , 2003, 49, 243-256.	0.6	87
14	Computations of oxygen fluxes through the sea surface and the net production of organic matter with application to the Baltic and adjacent seas. <i>Limnology and Oceanography</i> , 1991, 36, 444-454.	1.6	84
15	Some aspects of tidal interaction with fjord constrictions. <i>Estuarine and Coastal Marine Science</i> , 1980, 11, 151-166.	0.9	78
16	Dynamics of the freshwater-influenced surface layers in the Skagerrak. <i>Journal of Sea Research</i> , 1996, 35, 39-53.	0.6	77
17	Regulating the local environmental impact of intensive, marine fish farming. <i>Aquaculture</i> , 2001, 194, 75-92.	1.7	76
18	A Model for the Seasonal Pycnocline in Rotating Systems with Application to the Baltic Proper. <i>Journal of Physical Oceanography</i> , 1985, 15, 1392-1404.	0.7	73

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19	Improvement of Baltic Proper Water Quality Using Large-scale Ecological Engineering. <i>Ambio</i> , 2007, 36, 280-286.	2.8	70
20	Quantitative estimates of the eutrophication effects of fish farming on fjords. <i>Aquaculture</i> , 1990, 90, 135-156.	1.7	68
21	Developing a decision support system for sustainable cage aquaculture. <i>Environmental Modelling and Software</i> , 2009, 24, 694-702.	1.9	65
22	A mechanism governing the estuarine circulation in deep, strongly stratified fjords. <i>Estuarine, Coastal and Shelf Science</i> , 1981, 13, 197-211.	0.9	57
23	Observations of inshore water exchange forced by a fluctuating offshore density field. <i>Marine Pollution Bulletin</i> , 1996, 33, 112-119.	2.3	56
24	A New Phosphorus Paradigm for the Baltic Proper. <i>Ambio</i> , 2014, 43, 634-643.	2.8	56
25	Main characteristics of the long-term sea level variability in the Baltic sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1996, 48, 672-683.	0.8	55
26	Main characteristics of the long-term sea level variability in the Baltic sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1996, 48, 672-683.	0.8	54
27	The Baltic Sea Experiment (BALTEX): A European Contribution to the Investigation of the Energy and Water Cycle over a Large Drainage Basin. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2389-2413.	1.7	54
28	An Experiment with Forced Oxygenation of the Deepwater of the Anoxic By Fjord, Western Sweden. <i>Ambio</i> , 2015, 44, 42-54.	2.8	54
29	On the influence of topographic factors upon the oxygen consumption rate in sill basins of fjords. <i>Estuarine, Coastal and Shelf Science</i> , 1989, 28, 59-69.	0.9	51
30	Dynamics of nutrients and oxygen/hydrogen sulfide in the Baltic Sea deep water. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	51
31	On the Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction. <i>Journal of Physical Oceanography</i> , 1977, 7, 118-122.	0.7	48
32	Observations of the deepwater flow into the Baltic Sea. <i>Journal of Geophysical Research</i> , 1996, 101, 8895-8911.	3.3	48
33	Resistance to Barotropic Tidal Flow in Straits by Baroclinic Wave Drag. <i>Journal of Physical Oceanography</i> , 1999, 29, 191-197.	0.7	47
34	Observational Evidence for Vertical Diffusion Driven by Internal Waves of Tidal Origin in the Oslofjord. <i>Journal of Physical Oceanography</i> , 1979, 9, 435-441.	0.7	45
35	Upper layer circulation of the Nordic seas as inferred from the spatial distribution of heat and freshwater content and potential energy. <i>Polar Research</i> , 2001, 20, 161-168.	1.6	39
36	Spreading of juvenile freshwater in the Baltic proper. <i>Journal of Geophysical Research</i> , 1998, 103, 27795-27807.	3.3	38

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37	The rate of inflow and mixing during deep-water renewal in a sill fjord. <i>Limnology and Oceanography</i> , 2004, 49, 768-777.	1.6	36
38	Carrying capacity: general principles of model construction. <i>Aquaculture Research</i> , 2011, 42, 41-50.	0.9	36
39	Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. <i>Biogeochemistry</i> , 2015, 126, 131-152.	1.7	33
40	On the response of the horizontal mean vertical density distribution in a fjord to low-frequency density fluctuations in the coastal water. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1990, 42, 605-614.	0.8	32
41	On the hydrographic and ice conditions in the northern North Atlantic during different phases of a glaciation cycle. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1985, 50, 303-321.	1.0	29
42	Computations of the flow of dense water into the Baltic Sea from hydrographical measurements in the Arkona Basin. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39A, 170-177.	0.8	27
43	On the response of the horizontal mean vertical density distribution in a fjord to low-frequency density fluctuations in the coastal water. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 42, 605.	0.8	26
44	On the water exchange of Framvaren. <i>Marine Chemistry</i> , 1988, 23, 219-228.	0.9	25
45	On the hydrographic and ice conditions in the northern North Atlantic during different phases of a glaciation cycle. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1985, 50, 303-321.	1.0	24
46	Improving Oxygen Conditions in the Deeper Parts of Bornholm Sea by Pumped Injection of Winter Water. <i>Ambio</i> , 2013, 42, 587-595.	2.8	24
47	Observed Damping of Barotropic Seiches through Baroclinic Wave Drag in the Gullmar Fjord. <i>Journal of Physical Oceanography</i> , 1997, 27, 849-857.	0.7	23
48	Regulation of the Indonesian throughflow by baroclinic draining of the North Australian Basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 2214-2233.	0.6	20
49	The Eutrophication of the Baltic Sea has been Boosted and Perpetuated by a Major Internal Phosphorus Source. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	20
50	Computations of the flow of dense water into the Baltic Sea from hydrographical measurements in the Arkona Basin. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1987, 39, 170-177.	0.8	19
51	The sensitivity of minimum oxygen concentrations in a fjord to changes in biotic and abiotic external forcing. <i>Limnology and Oceanography</i> , 2006, 51, 631-638.	1.6	19
52	Spatial Variability of Diapycnal Mixing and Turbulent Dissipation Rates in a Stagnant Fjord Basin. <i>Journal of Physical Oceanography</i> , 2004, 34, 1679-1691.	0.7	18
53	Effects of ecological engineered oxygenation on the bacterial community structure in an anoxic fjord in western Sweden. <i>ISME Journal</i> , 2015, 9, 656-669.	4.4	18
54	On the seasonal nitrogen dynamics of the Baltic proper biogeochemical reactor. <i>Journal of Marine Research</i> , 1999, 57, 693-713.	0.3	17

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55	Consequences of artificial deepwater ventilation in the Bornholm Basin for oxygen conditions, cod reproduction and benthic biomass – a model study. <i>Ocean Science</i> , 2015, 11, 93-110.	1.3	16
56	Oxygen budget methods to determine the vertical flux of particulate organic matter with application to the coastal waters off western Scandinavia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 7-21.	0.6	13
57	On the response of the Baltic proper to changes of the total phosphorus supply. <i>Ambio</i> , 2018, 47, 31-44.	2.8	13
58	A note on the dynamics of small-scale fronts. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1980, 16, 225-238.	0.4	12
59	Analysis of an 89-year-long sea level record from the Kattegat with special reference to the barotropically driven water exchange between the Baltic and the sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1984, 36, 401-408.	0.8	12
60	Increased utility of the Secchi disk to assess eutrophication in coastal waters with freshwater run-off. <i>Journal of Marine Systems</i> , 2006, 60, 19-29.	0.9	10
61	The Vertical Flux of Organic Matter in the Å-resund Estimated by Two Different Methods Using Oxygen Measurements. <i>Estuarine, Coastal and Shelf Science</i> , 1993, 37, 329-342.	0.9	9
62	Upper layer circulation of the Nordic seas as inferred from the spatial distribution of heat and freshwater content and potential energy. <i>Polar Research</i> , 2001, 20, 161-168.	1.6	9
63	Rapid re-oxygenation of Baltic Sea sediments following a large inflow event. <i>Ambio</i> , 2016, 45, 130-132.	2.8	9
64	Modelling the Orust fjord system on the Swedish west coast. <i>Journal of Marine Systems</i> , 2013, 113-114, 29-41.	0.9	8
65	Cross Thermocline Flow on Continental Shelves and the Locations of Shelf Fronts.. <i>Elsevier Oceanography Series</i> , 1981, 32, 51-65.	0.1	6
66	Instrument-induced linear flow resistance in Å-resund. <i>Continental Shelf Research</i> , 2002, 22, 435-444.	0.9	6
67	Observations on plant nutrients in some Norwegian fjords. <i>Sarsia</i> , 1988, 73, 303-307.	0.5	5
68	Control of production of organic matter in the ocean on short and long terms by stratification and remineralization. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 23-35.	0.6	5
69	Evidence for Hydraulically Controlled Outflow of Brackish Water from Holandsfjord, Norway. <i>Journal of Physical Oceanography</i> , 1996, 26, 257-266.	0.7	5
70	Statistical models and distributions of current velocities with application to the prediction of extreme events. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 58, 601-609.	0.9	5
71	On the Influence of Buoyancy Fluxes on Wind Drift Currents. <i>Journal of Physical Oceanography</i> , 2006, 36, 1591-1604.	0.7	5
72	A note on the locus of a shelf front. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1988, 40, 439-442.	0.8	4

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73	Improving oxygen conditions in periodically stagnant basins using sea-based measures - Illustrated by hypothetical applications to the By Fjord, Sweden. Continental Shelf Research, 2022, 244, 104806.	0.9	4
74	Oxygenated deep bottoms beneath a thick hypoxic layer lack potential of benthic colonization. Ambio, 2018, 47, 106-109.	2.8	3
75	High methane emissions from an anoxic fjord driven by mixing and oxygenation. Limnology and Oceanography Letters, 0, , .	1.6	3
76	Processes and factors influencing the through-flow of new deepwater in the Bornholm Basin. Oceanologia, 2017, 59, 69-80.	1.1	2
77	Oceanic Freshwater Fluxes in the Climate System. , 2000, , 1-20.		2
78	On the rate of ice formation in water cooled by a more saline sublayer. Tellus, 1981, 33, 604-609.	0.4	2
79	Oxygenation of Large Volumes of Natural Waters by Geo-Engineering: with Particular Reference to a Pilot Experiment in Byfjorden. Environmental Science and Engineering, 2010, , 303-315.	0.1	2
80	Horizontal dispersion in the sea caused by recurring changes of the depth of the wind drift. Geophysical Research Letters, 2006, 33, .	1.5	0
81	Response to "Limited capacity to retain phosphorus in the Baltic proper offshore sediments" by Karlsson and Malmaeus. Ambio, 2018, 47, 382-383.	2.8	0
82	Fjord Circulation. , 2019, , 74-81.		0