

# Anders Stigebrandt

## List of Publications by Year in descending order

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82  
papers

3,703  
citations

109321  
35  
h-index

133252  
59  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2366  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | On the response of the horizontal mean vertical density distribution in a fjord to low-frequency density fluctuations in the coastal water. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 42, 605. | 1.7 | 26        |
| 2  | 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.            | 1.8 | 4         |
| 3  | The Eutrophication of the Baltic Sea has been Boosted and Perpetuated by a Major Internal Phosphorus Source. Frontiers in Marine Science, 2020, 7, .   | 2.5 | 20        |
| 4  | Fiord Circulation. , 2019, , 74-81.  |     | 0         |
| 5  | Oxygenated deep bottoms beneath a thick hypoxic layer lack potential of benthic colonization. Ambio, 2018, 47, 106-109.  | 5.5 | 3         |
| 6  | Response to “Limited capacity to retain phosphorus in the Baltic proper offshore sediments” by Karlsson and Malmaeus. Ambio, 2018, 47, 382-383.  | 5.5 | 0         |
| 7  | On the response of the Baltic proper to changes of the total phosphorus supply. Ambio, 2018, 47, 31-44.  | 5.5 | 13        |
| 8  | Processes and factors influencing the through-flow of new deepwater in the Bornholm Basin. Oceanologia, 2017, 59, 69-80.   | 2.2 | 2         |
| 9  | Rapid re-oxygenation of Baltic Sea sediments following a large inflow event. Ambio, 2016, 45, 130-132.   | 5.5 | 9         |
| 10 | Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. Biogeochemistry, 2015, 126, 131-152.  | 3.5 | 33        |
| 11 | Consequences of artificial deepwater ventilation in the Bornholm Basin for oxygen conditions, cod reproduction and benthic biomass “a model study. Ocean Science, 2015, 11, 93-110.                                | 3.4 | 16        |
| 12 | Effects of ecological engineered oxygenation on the bacterial community structure in an anoxic fjord in western Sweden. ISME Journal, 2015, 9, 656-669.  | 9.8 | 18        |
| 13 | An Experiment with Forced Oxygenation of the Deepwater of the Anoxic By Fjord, Western Sweden. Ambio, 2015, 44, 42-54.   | 5.5 | 54        |
| 14 | A New Phosphorus Paradigm for the Baltic Proper. Ambio, 2014, 43, 634-643.   | 5.5 | 56        |
| 15 | Improving Oxygen Conditions in the Deeper Parts of Bornholm Sea by Pumped Injection of Winter Water. Ambio, 2013, 42, 587-595.   | 5.5 | 24        |
| 16 | Modelling the Orust fjord system on the Swedish west coast. Journal of Marine Systems, 2013, 113-114, 29-41.   | 2.1 | 8         |
| 17 | Carrying capacity: general principles of model construction. Aquaculture Research, 2011, 42, 41-50.  | 1.8 | 36        |
| 18 | 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.                           | 0.2 | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Developing a decision support system for sustainable cage aquaculture. Environmental Modelling and Software, 2009, 24, 694-702.   | 4.5 | 65        |
| 20 | Improvement of Baltic Proper Water Quality Using Large-scale Ecological Engineering. Ambio, 2007, 36, 280-286.  | 5.5 | 70        |
| 21 | Dynamics of nutrients and oxygen/hydrogen sulfide in the Baltic Sea deep water. Journal of Geophysical Research, 2007, 112, .   | 3.3 | 51        |
| 22 | Horizontal dispersion in the sea caused by recurring changes of the depth of the wind drift. Geophysical Research Letters, 2006, 33, .  | 4.0 | 0         |
| 23 | On the Influence of Buoyancy Fluxes on Wind Drift Currents. Journal of Physical Oceanography, 2006, 36, 1591-1604.  | 1.7 | 5         |
| 24 | Increased utility of the Secchi disk to assess eutrophication in coastal waters with freshwater run-off. Journal of Marine Systems, 2006, 60, 19-29.  | 2.1 | 10        |
| 25 | The sensitivity of minimum oxygen concentrations in a fjord to changes in biotic and abiotic external forcing. Limnology and Oceanography, 2006, 51, 631-638.   | 3.1 | 19        |
| 26 | Regulation of the Indonesian throughflow by baroclinic draining of the North Australian Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2214-2233.                                      | 1.4 | 20        |
| 27 | Regulating the local environmental impact of intensive marine fish farming. Aquaculture, 2004, 234, 239-261.  | 3.5 | 120       |
| 28 | Spatial Variability of Diapycnal Mixing and Turbulent Dissipation Rates in a Stagnant Fjord Basin. Journal of Physical Oceanography, 2004, 34, 1679-1691.   | 1.7 | 18        |
| 29 | The rate of inflow and mixing during deep-water renewal in a sill fjord. Limnology and Oceanography, 2004, 49, 768-777.   | 3.1 | 36        |
| 30 | Statistical models and distributions of current velocities with application to the prediction of extreme events. Estuarine, Coastal and Shelf Science, 2003, 58, 601-609.   | 2.1 | 5         |
| 31 | Response of the Baltic Sea to climate change—theory and observations. Journal of Sea Research, 2003, 49, 243-256.   | 1.6 | 87        |
| 32 | Instrument-induced linear flow resistance in Åresund. Continental Shelf Research, 2002, 22, 435-444.  | 1.8 | 6         |
| 33 | Regulating the local environmental impact of intensive, marine fish farming. Aquaculture, 2001, 194, 75-92.   | 3.5 | 76        |
| 34 | The Baltic Sea Experiment (BALTEX): A European Contribution to the Investigation of the Energy and Water Cycle over a Large Drainage Basin. Bulletin of the American Meteorological Society, 2001, 82, 2389-2413. | 3.3 | 54        |
| 35 | Upper layer circulation of the Nordic seas as inferred from the spatial distribution of heat and freshwater content and potential energy. Polar Research, 2001, 20, 161-168.                                      | 1.6 | 9         |
| 36 | Upper layer circulation of the Nordic seas as inferred from the spatial distribution of heat and freshwater content and potential energy. Polar Research, 2001, 20, 161-168.                                      | 1.6 | 39        |

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|----|---|-----|-----------|
| 37 | Oceanic Freshwater Fluxes in the Climate System. , 2000, , 1-20.  |     | 2         |
| 38 | On the seasonal nitrogen dynamics of the Baltic proper biogeochemical reactor. Journal of Marine Research, 1999, 57, 693-713.   | 0.3 | 17        |
| 39 | Resistance to Barotropic Tidal Flow in Straits by Baroclinic Wave Drag. Journal of Physical Oceanography, 1999, 29, 191-197.  | 1.7 | 47        |
| 40 | Spreading of juvenile freshwater in the Baltic proper. Journal of Geophysical Research, 1998, 103, 27795-27807.   | 3.3 | 38        |
| 41 | Observed Damping of Barotropic Seiches through Baroclinic Wave Drag in the Gullmar Fjord. Journal of Physical Oceanography, 1997, 27, 849-857.  | 1.7 | 23        |
| 42 | Regulating the local environmental impact of intensive marine fish farming I. The concept of the MOM system (Modelling-Ongrowing fish farms-Monitoring). Aquaculture, 1997, 158, 85-94.   | 3.5 | 108       |
| 43 | Oxygen budget methods to determine the vertical flux of particulate organic matter with application to the coastal waters off western Scandinavia. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 7-21.            | 1.4 | 13        |
| 44 | Control of production of organic matter in the ocean on short and long terms by stratification and remineralization. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 23-35.   | 1.4 | 5         |
| 45 | Observations of the deepwater flow into the Baltic Sea. Journal of Geophysical Research, 1996, 101, 8895-8911.  | 3.3 | 48        |
| 46 | Observations of inshore water exchange forced by a fluctuating offshore density field. Marine Pollution Bulletin, 1996, 33, 112-119.  | 5.0 | 56        |
| 47 | Dynamics of the freshwater-influenced surface layers in the Skagerrak. Journal of Sea Research, 1996, 35, 39-53.  | 1.6 | 77        |
| 48 | Main characteristics of the long-term sea level variability in the Baltic sea. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 672-683.   | 1.7 | 55        |
| 49 | Evidence for Hydraulically Controlled Outflow of Brackish Water from Holandsfjord, Norway. Journal of Physical Oceanography, 1996, 26, 257-266.   | 1.7 | 5         |
| 50 | Main characteristics of the long-term sea level variability in the Baltic sea. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 672-683.   | 1.7 | 54        |
| 51 | The Vertical Flux of Organic Matter in the Åresund Estimated by Two Different Methods Using Oxygen Measurements. Estuarine, Coastal and Shelf Science, 1993, 37, 329-342.   | 2.1 | 9         |
| 52 | Transport of Freshwater by the Oceans. Journal of Physical Oceanography, 1992, 22, 155-162.   | 1.7 | 242       |
| 53 | Computations of the geographical distribution of the energy flux to mixing processes via internal tides and the associated vertical circulation in the ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, 269-291. | 1.5 | 108       |
| 54 | Computations of oxygen fluxes through the sea surface and the net production of organic matter with application to the Baltic and adjacent seas. Limnology and Oceanography, 1991, 36, 444-454.   | 3.1 | 84        |

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|----|--|-----|-----------|
| 55 | 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.                       | 1.7 | 32        |
| 56 | Quantitative estimates of the eutrophication effects of fish farming on fjords. <i>Aquaculture</i> , 1990, 90, 135-156.  | 3.5 | 68        |
| 57 | A time-dependent budget model for nutrients in the Baltic Sea. <i>Global Biogeochemical Cycles</i> , 1989, 3, 63-78.   | 4.9 | 122       |
| 58 | 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.  | 2.1 | 51        |
| 59 | Vertical Mixing in Basin Waters of Fjords. <i>Journal of Physical Oceanography</i> , 1989, 19, 917-926.  | 1.7 | 154       |
| 60 | On the water exchange of Framvaren. <i>Marine Chemistry</i> , 1988, 23, 219-228.   | 2.3 | 25        |
| 61 | Observations on plant nutrients in some Norwegian fjords. <i>Sarsia</i> , 1988, 73, 303-307.   | 0.5 | 5         |
| 62 | A note on the locus of a shelf front. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1988, 40, 439-442.   | 1.7 | 4         |
| 63 | A Model for the Vertical Circulation of the Baltic Deep Water. <i>Journal of Physical Oceanography</i> , 1987, 17, 1772-1785.  | 1.7 | 133       |
| 64 | 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.   | 1.7 | 19        |
| 65 | 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       |
| 66 | 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.  | 1.7 | 27        |
| 67 | 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.  | 1.7 | 73        |
| 68 | 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.   | 2.3 | 29        |
| 69 | 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.   | 2.3 | 24        |
| 70 | The North Pacific: A Global-Scale Estuary. <i>Journal of Physical Oceanography</i> , 1984, 14, 464-470.  | 1.7 | 145       |
| 71 | 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. | 1.7 | 12        |
| 72 | 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.  | 1.7 | 161       |

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|----|---|-----|-----------|
| 73 | A mechanism governing the estuarine circulation in deep, strongly stratified fjords. Estuarine, Coastal and Shelf Science, 1981, 13, 197-211.   | 2.1 | 57        |
| 74 | 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. Journal of Physical Oceanography, 1981, 11, 1407-1422. | 1.7 | 97        |
| 75 | Cross Thermocline Flow on Continental Shelves and the Locations of Shelf Fronts.. Elsevier Oceanography Series, 1981, 32, 51-65.  | 0.1 | 6         |
| 76 | On the rate of ice formation in water cooled by a more saline sublayer. Tellus, 1981, 33, 604-609.  | 0.8 | 2         |
| 77 | Some aspects of tidal interaction with fjord constrictions. Estuarine and Coastal Marine Science, 1980, 11, 151-166.  | 0.9 | 78        |
| 78 | A note on the dynamics of small-scale fronts. Geophysical and Astrophysical Fluid Dynamics, 1980, 16, 225-238.  | 1.2 | 12        |
| 79 | Observational Evidence for Vertical Diffusion Driven by Internal Waves of Tidal Origin in the Oslofjord. Journal of Physical Oceanography, 1979, 9, 435-441.  | 1.7 | 45        |
| 80 | On the Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction. Journal of Physical Oceanography, 1977, 7, 118-122.   | 1.7 | 48        |
| 81 | Vertical Diffusion Driven by Internal Waves in a Sill Fjord. Journal of Physical Oceanography, 1976, 6, 486-495.  | 1.7 | 130       |
| 82 | High methane emissions from an anoxic fjord driven by mixing and oxygenation. Limnology and Oceanography Letters, 0, , .  | 3.9 | 3         |