

Christian Dieterich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/998669/publications.pdf>

Version: 2024-02-01

34
papers

1,443
citations

331259

21
h-index

377514

34
g-index

48
all docs

48
docs citations

48
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulation characteristics in three eddy-permitting models of the North Atlantic. <i>Progress in Oceanography</i> , 2001, 48, 123-161.	1.5	220
2	Modeling the combined impact of changing climate and changing nutrient loads on the Baltic Sea environment in an ensemble of transient simulations for 1961–2099. <i>Climate Dynamics</i> , 2012, 39, 2421-2441.	1.7	175
3	Impact of Climate Change on Ecological Quality Indicators and Biogeochemical Fluxes in the Baltic Sea: A Multi-Model Ensemble Study. <i>Ambio</i> , 2012, 41, 558-573.	2.8	120
4	Nemo-Nordic 1.0: a NEMO-based ocean model for the Baltic and North seas – research and operational applications. <i>Geoscientific Model Development</i> , 2019, 12, 363-386.	1.3	73
5	Uncertainties in Projections of the Baltic Sea Ecosystem Driven by an Ensemble of Global Climate Models. <i>Frontiers in Earth Science</i> , 2019, 6, .	0.8	52
6	Baltic Sea ecosystem response to various nutrient load scenarios in present and future climates. <i>Climate Dynamics</i> , 2019, 52, 3369-3387.	1.7	50
7	Freshwater outflow of the Baltic Sea and transport in the Norwegian current: A statistical correlation analysis based on a numerical experiment. <i>Continental Shelf Research</i> , 2013, 64, 1-9.	0.9	48
8	Thermal air–sea coupling in hindcast simulations for the North Sea and Baltic Sea on the NW European shelf. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 26911.	0.8	45
9	Development and evaluation of a new regional coupled atmosphere–ocean model in the North Sea and Baltic Sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 24284.	0.8	45
10	Assessment of Eutrophication Abatement Scenarios for the Baltic Sea by Multi-Model Ensemble Simulations. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	44
11	Summer hydrographic changes in the Baltic Sea, Kattegat and Skagerrak projected in an ensemble of climate scenarios downscaled with a coupled regional ocean–sea ice–atmosphere model. <i>Climate Dynamics</i> , 2019, 53, 5945-5966.	1.7	42
12	An evaluation of the North Sea circulation in global and regional models relevant for ecosystem simulations. <i>Ocean Modelling</i> , 2017, 116, 70-95.	1.0	39
13	Future projections of record-breaking sea surface temperature and cyanobacteria bloom events in the Baltic Sea. <i>Ambio</i> , 2019, 48, 1362-1376.	2.8	36
14	Oceanographic regional climate projections for the Baltic Sea until 2100. <i>Earth System Dynamics</i> , 2022, 13, 159-199.	2.7	34
15	Assessment of Uncertainties in Scenario Simulations of Biogeochemical Cycles in the Baltic Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	31
16	An algorithm based on sea-level pressure fluctuations to identify major Baltic inflow events. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 23452.	0.8	30
17	Seasonal cycle of meridional heat transport in the subtropical North Atlantic: a model intercomparison in relation to observations near 25°N. <i>Progress in Oceanography</i> , 2001, 48, 231-253.	1.5	29
18	Surface Heat Budget over the North Sea in Climate Change Simulations. <i>Atmosphere</i> , 2019, 10, 272.	1.0	28

#	ARTICLE	IF	CITATIONS
19	The role of variable wind forcing in generating eddy energy in the North Atlantic. Progress in Oceanography, 2001, 48, 289-311.	1.5	27
20	Natural variability is a large source of uncertainty in future projections of hypoxia in the Baltic Sea. Communications Earth & Environment, 2021, 2, .	2.6	27
21	Assimilation of altimetric data and mean sea surface height into an eddy-permitting model of the North Atlantic. Progress in Oceanography, 2001, 48, 313-335.	1.5	23
22	Modeling Nutrient Transports and Exchanges of Nutrients Between Shallow Regions and the Open Baltic Sea in Present and Future Climate. Ambio, 2012, 41, 586-599.	2.8	23
23	Spatio-temporal dynamics of a fish predator: Density-dependent and hydrographic effects on Baltic Sea cod population. PLoS ONE, 2017, 12, e0172004.	1.1	22
24	Space-Borne Measurements of the Time-Dependent Geostrophic Ocean Flow Field. Journal of Atmospheric and Oceanic Technology, 1999, 16, 1198-1207.	0.5	21
25	Atmospheric regional climate projections for the Baltic Sea region until 2100. Earth System Dynamics, 2022, 13, 133-157.	2.7	21
26	Characteristics of convective snow bands along the Swedish east coast. Earth System Dynamics, 2017, 8, 163-175.	2.7	14
27	The effects of mean sea level rise and strengthened winds on extreme sea levels in the Baltic Sea. Theoretical and Applied Mechanics Letters, 2018, 8, 366-371.	1.3	13
28	Is interactive air sea coupling relevant for simulating the future climate of Europe?. Climate Dynamics, 2021, 56, 491-514.	1.7	13
29	Coupled regional Earth system modeling in the Baltic Sea region. Earth System Dynamics, 2021, 12, 939-973.	2.7	13
30	Extreme sea levels in the Baltic Sea under climate change scenarios – Part 1: Model validation and sensitivity. Ocean Science, 2019, 15, 1399-1418.	1.3	10
31	European marginal seas in a regional atmosphere–ocean coupled model and their impact on Vb-cyclones and associated precipitation. Climate Dynamics, 2019, 53, 5967-5984.	1.7	7
32	Impact of increasing inflow of warm Atlantic water on the sea–air exchange of carbon dioxide and methane in the Laptev Sea. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1867-1883.	1.3	4
33	Statistics of sea-effect snowfall along the Finnish coastline based on regional climate model data. Advances in Science and Research, 0, 17, 87-104.	1.0	4
34	Atmospheric rivers in CMIP5 climate ensembles downscaled with a high-resolution regional climate model. Earth System Dynamics, 2022, 13, 613-631.	2.7	3