Ã˜yvind Breivik

List of Publications by Year
in descending order

74 papers	3,235 citations	136740 32 h-index	161609 54 g-index
81 all docs	81 docs citations	81 times ranked	2881 citing authors

#	Article	IF	Citations
1	Robustness and uncertainties in global multivariate wind-wave climate projections. Nature Climate Change, 2019, 9, 711-718.	8.1	221
2	A high-resolution hindcast of wind and waves for the North Sea, the Norwegian Sea, and the Barents Sea. Journal of Geophysical Research, 2011, 116, .	3.3	191
3	An operational search and rescue model for the Norwegian Sea and the North Sea. Journal of Marine Systems, 2008, 69, 99-113.	0.9	160
4	OpenDrift v1.0: a generic framework for trajectory modelling. Geoscientific Model Development, 2018, 11, 1405-1420.	1.3	153
5	Wave modelling in coastal and inner seas. Progress in Oceanography, 2018, 167, 164-233.	1.5	145
6	Wind-induced drift of objects at sea: The leeway field method. Applied Ocean Research, 2011, 33, 100-109.	1.8	112
7	Surface wave effects in the NEMO ocean model: Forced and coupled experiments. Journal of Geophysical Research: Oceans, 2015, 120, 2973-2992.	1.0	109
8	Advances in search and rescue at sea. Ocean Dynamics, 2013, 63, 83-88.	0.9	107
9	APPLICATIONS OF GODAE OCEAN CURRENT FORECASTS TO SEARCH AND RESCUE AND SHIP ROUTING. Oceanography, 2009, 22, 176-181.	0.5	95
10	Marine Wind and Wave Height Trends at Different ERA-Interim Forecast Ranges. Journal of Climate, 2015, 28, 819-837.	1.2	93
11	Stokes drift. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170104.	1.6	89
12	Approximate Stokes Drift Profiles in Deep Water. Journal of Physical Oceanography, 2014, 44, 2433-2445.	0.7	88
13	Real time assimilation of HF radar currents into a coastal ocean model. Journal of Marine Systems, 2001, 28, 161-182.	0.9	86
14	Measurement and modeling of oil slick transport. Journal of Geophysical Research: Oceans, 2016, 121, 7759-7775.	1.0	75
15	Wave Extremes in the Northeast Atlantic. Journal of Climate, 2012, 25, 1529-1543.	1.2	74
16	A Stokes drift approximation based on the Phillips spectrum. Ocean Modelling, 2016, 100, 49-56.	1.0	73
17	Effects of wave-induced forcing on a circulation model of the North Sea. Ocean Dynamics, 2017, 67, 81-101.	0.9	73
18	Projected changes in significant wave height toward the end of the 21st century: Northeast <scp>A</scp>tlantic. Journal of Geophysical Research: Oceans, 2017, 122, 3394-3403.	1.0	72

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19	The wind sea and swell waves climate in the Nordic seas. Ocean Dynamics, 2015, 65, 223-240.	0.9	68
20	Prevention of oil spill from shipping by modelling of dynamic risk. Marine Pollution Bulletin, 2007, 54, 1619-1633.	2.3	60
21	Global Wind Speed and Wave Height Extremes Derived from Long-Duration Satellite Records. Journal of Climate, 2019, 32, 109-126.	1.2	58
22	Comparison of Wind Speed and Wave Height Trends from Twentieth-Century Models and Satellite Altimeters. Journal of Climate, 2020, 33, 611-624.	1.2	55
23	Forecasting the Drift of Objects and Substances in the Ocean. , 2006, , 507-523.		45
24	Wind and wave extremes over the world oceans from very large ensembles. Geophysical Research Letters, 2014, 41, 5122-5131.	1.5	44
25	Climate change and safe design of ship structures. Ocean Engineering, 2018, 149, 226-237.	1.9	41
26	A short-term predictive system for surface currents from a rapidly deployed coastal HF radar network. Ocean Dynamics, 2012, 62, 725-740.	0.9	40
27	Comparison of HF radar measurements with Eulerian and Lagrangian surface currents. Ocean Dynamics, 2015, 65, 679-690.	0.9	40
28	Surface wave effects on water temperature in the Baltic Sea: simulations with the coupled NEMO-WAM model. Ocean Dynamics, 2016, 66, 917-930.	0.9	40
29	Statistical models of global Langmuir mixing. Ocean Modelling, 2017, 113, 95-114.	1.0	39
30	Wind and Wave Extremes from Atmosphere and Wave Model Ensembles. Journal of Climate, 2018, 31, 8819-8842.	1.2	37
31	SEASTAR: A Mission to Study Ocean Submesoscale Dynamics and Small-Scale Atmosphere-Ocean Processes in Coastal, Shelf and Polar Seas. Frontiers in Marine Science, 2019, 6, .	1.2	37
32	Oceanâ€Waveâ€Atmosphere Interaction Processes in a Fully Coupled Modeling System. Journal of Advances in Modeling Earth Systems, 2019, 11, 3852-3874.	1.3	37
33	The leeway of shipping containers at different immersion levels. Ocean Dynamics, 2012, 62, 741-752.	0.9	35
34	Wave Extremes in the Northeast Atlantic from Ensemble Forecasts. Journal of Climate, 2013, 26, 7525-7540.	1.2	35
35	Wave effects on coastal upwelling and water level. Ocean Modelling, 2019, 140, 101405.	1.0	35
36	Surface wave measurements using a ship-mounted ultrasonic altimeter. Methods in Oceanography, 2013, 6, 1-15.	1.5	34

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37	Nearshore wave forecasting and hindcasting by dynamical and statistical downscaling. Journal of Marine Systems, 2009, 78, S235-S243.	0.9	33
38	The full life cycle of a polar low over the Norwegian Sea observed by three research aircraft flights. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1659-1673.	1.0	29
39	The importance of wind forcing in fjord wave modelling. Ocean Dynamics, 2020, 70, 57-75.	0.9	27
40	An open source, versatile, affordable waves in ice instrument for scientific measurements in the Polar Regions. Cold Regions Science and Technology, 2020, 170, 102955.	1.6	25
41	Modelling wave growth in narrow fetch geometries: The white-capping and wind input formulations. Ocean Modelling, 2021, 157, 101730.	1.0	25
42	Turbulence Scaling Comparisons in the Ocean Surface Boundary Layer. Journal of Geophysical Research: Oceans, 2018, 123, 2172-2191.	1.0	22
43	Short-Term Predictions of Oceanic Drift. Oceanography, 2018, 31, 59-67.	0.5	22
44	Modeling Whitecap Fraction with a Wave Model. Journal of Physical Oceanography, 2016, 46, 887-894.	0.7	21
45	NORA3: A Nonhydrostatic High-Resolution Hindcast of the North Sea, the Norwegian Sea, and the Barents Sea. Journal of Applied Meteorology and Climatology, 2021, 60, 1443-1464.	0.6	19
46	BAKTRAK: backtracking drifting objects using an iterative algorithm with a forward trajectory model. Ocean Dynamics, 2012, 62, 239-252.	0.9	18
47	OpenMetBuoy-v2021: An Easy-to-Build, Affordable, Customizable, Open-Source Instrument for Oceanographic Measurements of Drift and Waves in Sea Ice and the Open Ocean. Geosciences (Switzerland), 2022, 12, 110.	1.0	17
48	NORA10EI: A revised regional atmosphereâ€wave hindcast for the North Sea, the Norwegian Sea and the Barents Sea. International Journal of Climatology, 2020, 40, 4347-4373.	1.5	15
49	Effects of Wave-Induced Processes in a Coupled Waveâ€“Ocean Model on Particle Transport Simulations. Water (Switzerland), 2021, 13, 415.	1.2	15
50	Evaluating the Leeway Coefficient of Ocean Drifters Using Operational Marine Environmental Prediction Systems. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1943-1954.	0.5	15
51	A comparison of Langmuir turbulence parameterizations and key wave effects in a numerical model of the North Atlantic and Arctic Oceans. Ocean Modelling, 2019, 137, 76-97.	1.0	14
52	Sea-state contributions to sea-level variability in the European Seas. Ocean Dynamics, 2020, 70, 1547-1569.	0.9	13
53	Comparison of Remotely Measured and Modelled Currents in Coastal Areas of Norway and Spain. Vital, 2003, 9, 39-64.	0.0	10
54	Global Stokes Drift Climate under the RCP8.5 Scenario. Journal of Climate, 2019, 32, 1677-1691.	1.2	10

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55	Subsurface maxima in buoyant fish eggs indicate vertical velocity shear and spatially limited spawning grounds. Limnology and Oceanography, 2019, 64, 1239-1251.	1.6	9
56	Longâ€Term Statistics of Observed Bubble Depth Versus Modeled Wave Dissipation. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015906.	1.0	9
57	A Combined Stokes Drift Profile under Swell and Wind Sea. Journal of Physical Oceanography, 2020, 50, 2819-2833.	0.7	7
58	The Impact of a Reduced Highâ€Wind Charnock Parameter on Wave Growth With Application to the North Sea, the Norwegian Sea, and the Arctic Ocean. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	7
59	A novel approach to computing super observations for probabilistic wave model validation. Ocean Modelling, 2019, 139, 101404.	1.0	6
60	The international workshop on wave hindcasting and forecasting and the coastal hazards symposium. Ocean Dynamics, 2015, 65, 761-771.	0.9	5
61	Efficient bootstrap estimates for tail statistics. Natural Hazards and Earth System Sciences, 2017, 17, 357-366.	1.5	5
62	On the Groupiness and Intermittency of Oceanic Whitecaps. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	5
63	Resolving regions known for intense waveâ€“current interaction using spectral wave models: A case study in the energetic flow fields of Northern Norway. Ocean Modelling, 2022, 176, 102071.	1.0	4
64	The Ocean Version of the Lagrangian Analysis Tool LAGRANTO. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1723-1741.	0.5	3
65	The 14th international workshop on wave hindcasting and forecasting and the 5th coastal hazards symposium. Ocean Dynamics, 2017, 67, 551-556.	0.9	3
66	The impact of surface currents on the wave climate in narrow fjords. Ocean Modelling, 2021, 168, 101894.	1.0	3
67	Rapid deployable HF RADAR for Norwegian emergency spill operations. , 2010, , .		2
68	Analysis of Rogue Waves in North-Sea In-Situ Surface Wave Data. , 2018, , .		2
69	Intense interactions between ocean waves and currents observed in the Lofoten Maelstrom. Journal of Physical Oceanography, 2021, , .	0.7	2
70	A Nonparametric, Data-Driven Approach to Despiking Ocean Surface Wave Time Series. Journal of Atmospheric and Oceanic Technology, 2022, 39, 71-90.	0.5	2
71	Estimating a mean transport velocity in the marginal ice zone using iceâ€“ocean prediction systems. Cryosphere, 2022, 16, 2103-2114.	1.5	2
72	The â€œshallow-waternessâ€• of the wave climate in European coastal regions. Ocean Science, 2017, 13, 589-597.	1.3	1

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73	The 1st International Workshop on Waves, Storm Surges and Coastal Hazards incorporating the 15th International Workshop on Wave Hindcasting and Forecasting. Ocean Dynamics, 2019, 69, 513-517.	0.9	1
74	The redistribution of air-sea momentum and turbulent kinetic energy fluxes by ocean surface gravity waves. Journal of Physical Oceanography, 2022, , .	0.7	1