

Jason Holt

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,254
citations

76326

40
h-index

91884

69
g-index

92
all docs

92
docs citations

92
times ranked

6075
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean shelf exchange, NW European shelf seas: Measurements, estimates and comparisons. <i>Progress in Oceanography</i> , 2022, 202, 102760.	3.2	9
2	Climatic Controls on the Spring Phytoplankton Growing Season in a Temperate Shelf Sea. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	1
3	Conversion of Forest to Agriculture Increases Colored Dissolved Organic Matter in a Subtropical Catchment and Adjacent Coastal Environment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006295.	3.0	10
4	Next-generation regional ocean projections for living marine resource management in a changing climate. <i>ICES Journal of Marine Science</i> , 2021, 78, 1969-1987.	2.5	42
5	Implementation and assessment of a flux limiter based wetting and drying scheme in NEMO. <i>Ocean Modelling</i> , 2020, 155, 101708.	2.4	7
6	Controls on near-bed oxygen concentration on the Northwest European Continental Shelf under a potential future climate scenario. <i>Progress in Oceanography</i> , 2020, 187, 102400.	3.2	13
7	Hotspots of Dense Water Cascading in the Arctic Ocean: Implications for the Pacific Water Pathways. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016044.	2.6	17
8	Impact and detectability of hypothetical CCS offshore seep scenarios as an aid to storage assurance and risk assessment. <i>International Journal of Greenhouse Gas Control</i> , 2020, 95, 102949.	4.6	31
9	Estimation of global coastal sea level extremes using neural networks. <i>Environmental Research Letters</i> , 2020, 15, 074030.	5.2	19
10	Challenging Vertical Turbulence Mixing Schemes in a Tidally Energetic Environment: 1. Shelf Sea Model Assessment. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6360-6387.	2.6	11
11	Model-Observations Synergy in the Coastal Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	34
12	Synergies in Operational Oceanography: The Intrinsic Need for Sustained Ocean Observations. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
13	Kilometric Scale Modeling of the North West European Shelf Seas: Exploring the Spatial and Temporal Variability of Internal Tides. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 688-707.	2.6	29
14	Portable multi- and many-core performance for finite-difference or finite-element codes “ application to the free-surface component of NEMO (NEMOLite2D 1.0). <i>Geoscientific Model Development</i> , 2018, 11, 3447-3464.	3.6	6
15	Climate-Driven Change in the North Atlantic and Arctic Oceans Can Greatly Reduce the Circulation of the North Sea. <i>Geophysical Research Letters</i> , 2018, 45, 11,827.	4.0	26
16	AMM15: a new high-resolution NEMO configuration for operational simulation of the European north-west shelf. <i>Geoscientific Model Development</i> , 2018, 11, 681-696.	3.6	84
17	The UKC2 regional coupled environmental prediction system. <i>Geoscientific Model Development</i> , 2018, 11, 1-42.	3.6	45
18	Prospects for improving the representation of coastal and shelf seas in global ocean models. <i>Geoscientific Model Development</i> , 2017, 10, 499-523.	3.6	94

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19	The CO ₂ configuration of the 7-km Atlantic Margin Model: large-scale biases and sensitivity to forcing, physics options and vertical resolution. <i>Geoscientific Model Development</i> , 2017, 10, 2947-2969.	3.6	62
20	The Copernicus Marine Environment Monitoring Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2016, 9, s235-s320.	1.2	86
21	Uncertainty in climate projections for the 21st century northwest European shelf seas. <i>Progress in Oceanography</i> , 2016, 148, 56-73.	3.2	47
22	Potential impacts of climate change on the primary production of regional seas: A comparative analysis of five European seas. <i>Progress in Oceanography</i> , 2016, 140, 91-115.	3.2	88
23	Projected Change in North Sea. <i>Regional Climate Studies</i> , 2016, , 175-217.	1.2	33
24	Modelling the combined impacts of climate change and direct anthropogenic drivers on the ecosystem of the northwest European continental shelf. <i>Journal of Marine Systems</i> , 2015, 152, 51-63.	2.1	42
25	Modelling large-scale CO ₂ leakages in the North Sea. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 210-220.	4.6	39
26	Validation of an ensemble modelling system for climate projections for the northwest European shelf seas. <i>Progress in Oceanography</i> , 2015, 138, 211-237.	3.2	22
27	The effects of tides on the water mass mixing and sea ice in the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6669-6699.	2.6	45
28	Making modelling count - increasing the contribution of shelf-seas community and ecosystem models to policy development and management. <i>Marine Policy</i> , 2015, 61, 291-302.	3.2	81
29	What can ecosystem models tell us about the risk of eutrophication in the North Sea?. <i>Climatic Change</i> , 2015, 132, 111-125.	3.6	8
30	Heterogeneity of impacts of high CO ₂ on the North Western European Shelf. <i>Biogeosciences</i> , 2014, 11, 601-612.	3.3	42
31	Challenges in integrative approaches to modelling the marine ecosystems of the North Atlantic: Physics to fish and coasts to ocean. <i>Progress in Oceanography</i> , 2014, 129, 285-313.	3.2	58
32	Biomass changes and trophic amplification of plankton in a warmer ocean. <i>Global Change Biology</i> , 2014, 20, 2124-2139.	9.5	176
33	Vulnerability of coastal ecosystems to changes in harmful algal bloom distribution in response to climate change: projections based on model analysis. <i>Global Change Biology</i> , 2014, 20, 3845-3858.	9.5	184
34	Impacts of climate change on marine ecosystem production in societies dependent on fisheries. <i>Nature Climate Change</i> , 2014, 4, 211-216.	18.8	434
35	Projected impacts of climate change on marine fish and fisheries. <i>ICES Journal of Marine Science</i> , 2013, 70, 1023-1037.	2.5	230
36	Potential consequences of climate change for primary production and fish production in large marine ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2979-2989.	4.0	321

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37	Can marine fisheries and aquaculture meet fish demand from a growing human population in a changing climate?. <i>Global Environmental Change</i> , 2012, 22, 795-806.	7.8	322
38	Multi-decadal variability and trends in the temperature of the northwest European continental shelf: A model-data synthesis. <i>Progress in Oceanography</i> , 2012, 106, 96-117.	3.2	60
39	Oceanic controls on the primary production of the northwest European continental shelf: model experiments under recent past conditions and a potential future scenario. <i>Biogeosciences</i> , 2012, 9, 97-117.	3.3	110
40	Modelling temperature and salinity in Liverpool Bay and the Irish Sea: sensitivity to model type and surface forcing. <i>Ocean Science</i> , 2012, 8, 903-913.	3.4	20
41	The carbonate system in the North Sea: Sensitivity and model validation. <i>Journal of Marine Systems</i> , 2012, 102-104, 1-13.	2.1	85
42	The effect of tides on dense water formation in Arctic shelf seas. <i>Ocean Science</i> , 2011, 7, 203-217.	3.4	15
43	Marine ecosystem models for earth systems applications: The MarQUEST experience. <i>Journal of Marine Systems</i> , 2010, 81, 19-33.	2.1	37
44	The potential impacts of climate change on the hydrography of the northwest European continental shelf. <i>Progress in Oceanography</i> , 2010, 86, 361-379.	3.2	95
45	Deep ocean exchange with west-European shelf seas. <i>Ocean Science</i> , 2009, 5, 621-634.	3.4	87
46	Environmental impacts of tidal power schemes. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2009, 162, 165-177.	0.2	37
47	The influence of initial conditions and open boundary conditions on shelf circulation in a 3D ocean-shelf model of the North East Atlantic. <i>Ocean Dynamics</i> , 2009, 59, 67-81.	2.2	45
48	The tidal range energy potential of the West Coast of the United Kingdom. <i>Applied Ocean Research</i> , 2009, 31, 229-238.	4.1	55
49	Downwelling circulation of the northwest European continental shelf: A driving mechanism for the continental shelf carbon pump. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	57
50	Tidal energy potential in UK waters. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2009, 162, 155-164.	0.2	20
51	Modelling the global coastal ocean. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 939-951.	3.4	74
52	Regional scale impacts of distinct CO2 additions in the North Sea. <i>Marine Pollution Bulletin</i> , 2008, 56, 1461-1468.	5.0	62
53	The seasonal circulation and volume transport on the northwest European continental shelf: A fine-resolution model study. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
54	Modelling the tidal mixing fronts and seasonal stratification of the Northwest European Continental shelf. <i>Continental Shelf Research</i> , 2008, 28, 887-903.	1.8	103

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55	Thermohaline circulation of shallow tidal seas. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	92
56	An operational monitoring system to provide indicators of CO2-related variables in the ocean. <i>ICES Journal of Marine Science</i> , 2008, 65, 1498-1503.	2.5	27
57	Tapping the Tidal Power Potential of the Eastern Irish Sea. , 2008, , .		8
58	Modelling SPM on the NW European shelf seas. <i>Geological Society Special Publication</i> , 2007, 274, 147-158.	1.3	7
59	Assimilation of sea surface temperature in the POL Coastal Ocean Modelling System. <i>Journal of Marine Systems</i> , 2007, 65, 27-40.	2.1	10
60	Modelling the hydrodynamics and ecosystem of the North-West European continental shelf for operational oceanography. <i>Journal of Marine Systems</i> , 2007, 65, 417-429.	2.1	78
61	Error quantification of a high-resolution coupled hydrodynamic-ecosystem coastal-ocean model: Part 2. Chlorophyll-a, nutrients and SPM. <i>Journal of Marine Systems</i> , 2007, 68, 381-404.	2.1	123
62	An assessment of the fine-scale eddies in a high-resolution model of the shelf seas west of Great Britain. <i>Ocean Modelling</i> , 2006, 13, 271-291.	2.4	18
63	Error quantification of a high resolution coupled hydrodynamic-ecosystem coastal-ocean model: Part3, validation with Continuous Plankton Recorder data. <i>Journal of Marine Systems</i> , 2006, 63, 209-224.	2.1	31
64	Error quantification of a high-resolution coupled hydrodynamic-ecosystem coastal-ocean model: Part 1 model overview and assessment of the hydrodynamics. <i>Journal of Marine Systems</i> , 2005, 57, 167-188.	2.1	107
65	The geoid EDIN2000 and mean sea surface topography around the British Isles. <i>Geophysical Journal International</i> , 2004, 157, 565-577.	2.4	26
66	Phytoplankton community structure at contrasting sites in the Irish Sea: a modelling investigation. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 59, 363-383.	2.1	12
67	Advective controls on primary production in the stratified western Irish Sea: An eddy-resolving model study. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
68	Combined Use of Altimetry and In Situ Gravity Data for Coastal Dynamics Studies. <i>Space Science Reviews</i> , 2003, 108, 205-216.	8.1	5
69	Nutrient fluxes and budgets for the North West European Shelf from a three-dimensional model. <i>Science of the Total Environment</i> , 2003, 314-316, 769-785.	8.0	56
70	The Role of Advection in Determining the Temperature Structure of the Irish Sea. <i>Journal of Physical Oceanography</i> , 2003, 33, 2288-2306.	1.7	46
71	EDDY RESOLVED ECOSYSTEM MODELLING IN THE IRISH SEA. , 2003, , .		2
72	Towards 3-D Ecosystem Modelling of the Irish Sea. , 2002, , 929.		2

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73	Anscordinate density evolving model of the northwest European continental shelf: 2. Seasonal currents and tides. <i>Journal of Geophysical Research</i> , 2001, 106, 14035-14053.	3.3	58
74	Anscordinate density evolving model of the northwest European continental shelf: 1. Model description and density structure. <i>Journal of Geophysical Research</i> , 2001, 106, 14015-14034.	3.3	240
75	Sediment Deposition in Offshore Deepes of the Western North Sea: Questions for Models. <i>Estuarine, Coastal and Shelf Science</i> , 2001, 53, 553-567.	2.1	6
76	A highly spatially resolved ecosystem model for the North West European Continental Shelf. <i>Sarsia</i> , 2001, 86, 423-440.	0.5	110
77	A simulation of the Southern North Sea in comparison with measurements from the North Sea Project. Part 1: Temperature. <i>Continental Shelf Research</i> , 1999, 19, 1087-1112.	1.8	44
78	A simulation of the southern North Sea in comparison with measurements from the North Sea Project Part 2 Suspended Particulate Matter. <i>Continental Shelf Research</i> , 1999, 19, 1617-1642.	1.8	54
79	Experiments on Kelvin-Helmholtz billows influenced by boundaries. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1998, 89, 205-233.	1.2	30
80	The propagation of high frequency internal waves in the Celtic Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1997, 44, 2087-2116.	1.4	26
81	The effects of laterally sloping upper and lower boundaries on waves and instability in stratified shear flows. <i>Journal of Fluid Mechanics</i> , 1995, 286, 49-65.	3.4	27
82	Designing a Large Scale Autonomous Observing Network: A Set Theory Approach. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	0
83	Effect of tides on the Indonesian Seas circulation and their role on the volume, heat and salt transports of the Indonesian Throughflow.. <i>Journal of Geophysical Research: Oceans</i> , 0, , .	2.6	5