Youyu Lu

List of Publications by Year
in descending order

76 papers	1,825 citations	257450 24 h-index	289244 40 g-index
77 all docs	77 docs citations	77 times ranked	2063 citing authors

#	Article	IF	Citations
1	Impacts of Instrumented Bottom Frame on Flow and Turbulence Measurements. Journal of Atmospheric and Oceanic Technology, 2022, 39, 1445-1456.	1.3	1
2	Rapid reduction of tidal amplitude due to form drag in a narrow channel. Continental Shelf Research, 2021, 213, 104299.	1.8	3
3	Spaceâ€“time variations of sea ice in Bohai Sea in the winter of 2009â€“2010 simulated with a coupled ocean and ice model. Journal of Oceanography, 2021, 77, 243-258.	1.7	8
4	Summer hypoxia in Bohai Sea caused by changes in phytoplankton community. Anthropocene Coasts, 2021, 4, 77-86.	1.5	13
5	Future Changes in Oceanography and Biogeochemistry Along the Canadian Pacific Continental Margin. Frontiers in Marine Science, 2021, 8, .	2.5	17
6	Pathways, Volume Transport, and Seasonal Variability of the Lower Deep Limb of the Pacific Meridional Overturning Circulation at the Yap-Mariana Junction. Frontiers in Marine Science, 2021, 8, .	2.5	8
7	Numerical Study of the Thermal Structure and Circulation in a Large and Deep Dimictic Lake Over Tibetan Plateau. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017517.	2.6	8
8	High-resolution modelling of a coastal harbour in the presence of strong tides and significant river runoff. Ocean Dynamics, 2020, 70, 365-385.	2.2	8
9	A 4â€Month Lead Predictor of Openâ€Water Onset in Bering Strait. Geophysical Research Letters, 2020, 47, e2020GL089573.	4.0	6
10	Evaluation of Structured and Unstructured Models for Application in Operational Ocean Forecasting in Nearshore Waters. Journal of Marine Science and Engineering, 2020, 8, 484.	2.6	4
11	Seasonal Variation of the Deep Limb of the Pacific Meridional Overturning Circulation at Yapâ€Mariana Junction. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC016017.	2.6	10
12	Transport of Oil Droplets in the Upper Ocean: Impact of the Eddy Diffusivity. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015727.	2.6	24
13	Dependence of Beaufort Sea Low Ice Condition in the Summer of 1998 on Ice Export in the Prior Winter. Journal of Climate, 2020, 33, 9247-9259.	3.2	10
14	Examining tidal impacts on seasonal circulation and hydrography variability over the eastern Canadian shelf using a coupled circulation-ice regional model. Progress in Oceanography, 2020, 189, 102448.	3.2	6
15	Pacific Water Pathway in the Arctic Ocean and Beaufort Gyre in Two Simulations With Different Horizontal Resolutions. Journal of Geophysical Research: Oceans, 2019, 124, 6414-6432.	2.6	26
16	Impacts of Currents and Waves on Bottom Drag Coefficient in the East China Shelf Seas. Journal of Geophysical Research: Oceans, 2019, 124, 7344-7354.	2.6	14
17	Model-Observations Synergy in the Coastal Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	34
18	Synergies in Operational Oceanography: The Intrinsic Need for Sustained Ocean Observations. Frontiers in Marine Science, 2019, 6, .	2.5	39

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19	Seasonal and Interannual Variations of Sea Temperature Influenced by GalÃ¡pagos Islands in Eastern Tropical Pacific Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 3007-3020.	2.6	0
20	Vertical Motions Prior to the Intensification of Simulated Typhoon Hagupit (2008). Journal of Geophysical Research: Oceans, 2019, 124, 577-592.	2.6	2
21	A Model Evaluation of Biological Effects on Seasonal Variation of Airâ€“Sea CO₂ Flux in the Yellow and East China Seas. Atmosphere - Ocean, 2018, 56, 12-27.	1.6	1
22	Coastal Upwelling Off Southwest Nova Scotia Simulated With a Highâ€Resolution Baroclinic Ocean Model. Journal of Geophysical Research: Oceans, 2018, 123, 2318-2331.	2.6	11
23	On influencing factors of hypoxia in waters adjacent to the Changjiang estuary. Continental Shelf Research, 2018, 152, 1-13.	1.8	29
24	Variations in High-frequency Oscillations of Tropical Cyclones over the Western North Pacific. Advances in Atmospheric Sciences, 2018, 35, 423-434.	4.3	1
25	Surface Current in â€œHotspotâ€•Serves as a New and Effective Precursor for El NiÃ±o Prediction. Scientific Reports, 2017, 7, 166.	3.3	9
26	Operational Ocean Ice Prediction System Validation for the Canadian Arctic and Northwest Atlantic. , 2016, , .		0
27	Interaction between the Tidal and Seasonal Variability of the Gulf of Maine and Scotian Shelf Region. Journal of Physical Oceanography, 2016, 46, 3279-3298.	1.7	20
28	Sea ice forecast verification in the Canadian Global Ice Ocean Prediction System. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 659-671.	2.7	90
29	On the relationship between the Maddenâ€Julian Oscillation and 2â€‰m air temperature over central Asia in boreal winter. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,250.	3.3	12
30	Modelled Variations of Deep Convection in the Irminger Sea during 2003â€“10. Journal of Physical Oceanography, 2016, 46, 179-196.	1.7	7
31	Storm Surges in the Strait of Georgia Simulated with a Regional Model. Atmosphere - Ocean, 2016, 54, 1-21.	1.6	40
32	Oil droplets transport due to irregular waves: Development of large-scale spreading coefficients. Marine Pollution Bulletin, 2016, 104, 279-289.	5.0	35
33	Arctic sea ice and freshwater sensitivity to the treatment of the atmosphereâ€iceâ€ocean surface layer. Journal of Geophysical Research: Oceans, 2015, 120, 4392-4417.	2.6	31
34	High-resolution modeling of the mean flow and meso-scale eddy variability around the Grand Banks of Newfoundland. Ocean Dynamics, 2015, 65, 877-887.	2.2	0
35	A high-resolution ocean and sea-ice modelling system for the Arctic and North Atlantic oceans. Geoscientific Model Development, 2015, 8, 1577-1594.	3.6	61
36	Identification and analysis of high-frequency oscillations in the eyewalls of tropical cyclones. Advances in Atmospheric Sciences, 2015, 32, 624-634.	4.3	7

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37	Variability of sea surface height and circulation in the North Atlantic: Forcing mechanisms and linkages. Progress in Oceanography, 2015, 132, 273-286.	3.2	17
38	Reducing Drift and Bias of a Global Ocean Model by Frequency-Dependent Nudging. Atmosphere - Ocean, 2014, 52, 242-255.	1.6	5
39	Model simulated volume fluxes through the Canadian Arctic Archipelago and Davis Strait: Linking monthly variations to forcing in different seasons. Journal of Geophysical Research: Oceans, 2014, 119, 1927-1942.	2.6	15
40	Variations of latent heat flux during tropical cyclones over the South China Sea. Meteorological Applications, 2014, 21, 717-723.	2.1	24
41	Layered mixing on the New England Shelf in summer. Journal of Geophysical Research: Oceans, 2014, 119, 5776-5796.	2.6	6
42	Revealing the effects of the El NiÃ±o-southern oscillation on tropical cyclone intensity over the western north pacific from a model sensitivity study. Advances in Atmospheric Sciences, 2013, 30, 1117-1128.	4.3	3
43	A modelling study of inter-annual variation of Kuroshio intrusion on the shelf of East China Sea. Journal of Ocean University of China, 2013, 12, 537-548.	1.2	10
44	Forcing mechanisms of heat content variations in the Yellow Sea. Journal of Geophysical Research: Oceans, 2013, 118, 4504-4513.	2.6	21
45	Diffusive boundary layer influenced by bottom boundary hydrodynamics in tidal flows. Journal of Geophysical Research: Oceans, 2013, 118, 5994-6005.	2.6	7
46	Assessment of a NEMO-based hydrodynamic modelling system for the Great Lakes. Water Quality Research Journal of Canada, 2012, 47, 198-214.	2.7	36
47	Mapping the Relationship between Northern Hemisphere Winter Surface Air Temperature and the Maddenâ€“Julian Oscillation. Monthly Weather Review, 2011, 139, 2439-2454.	1.4	15
48	Sea ice sensitivity to the parameterisation of open water area. Journal of Operational Oceanography, 2010, 3, 3-9.	1.2	63
49	Evaluation of a 3â€D hydrodynamic model and atmospheric forecast forcing using observations in Lake Ontario. Journal of Geophysical Research, 2010, 115, .	3.3	34
50	Tropical Pacific Ocean and the Maddenâ€Julian Oscillation: Role of wind and buoyancy forcing. Journal of Geophysical Research, 2010, 115, .	3.3	5
51	Hydrodynamic modeling of Lake Ontario: An intercomparison of three models. Journal of Geophysical Research, 2010, 115, .	3.3	43
52	Interannual and long-term hydrographic changes in the Yellow Sea during 1977â€“1998. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1025-1034.	1.4	57
53	Sea Level Variations in the Tropical Pacific Ocean and the Maddenâ€“Julian Oscillation. Journal of Physical Oceanography, 2009, 39, 1984-1992.	1.7	10
54	Mean surface topography of the northwest Atlantic: Comparison of estimates based on satellite, terrestrial gravity, and oceanographic observations. Journal of Geophysical Research, 2009, 114, .	3.3	12

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55	Adaptive model of plankton dynamics for the North Atlantic. Progress in Oceanography, 2008, 76, 151-191.	3.2	41
56	Modelling hydrographic changes in the Labrador sea over the past five decades. Progress in Oceanography, 2007, 73, 406-426.	3.2	8
57	Assimilating long-term hydrographic information into an eddy-permitting model of the North Atlantic. Journal of Geophysical Research, 2006, 111, .	3.3	21
58	A simple method for reducing seasonal bias and drift in eddy resolving ocean models. Ocean Modelling, 2006, 13, 109-125.	2.4	46
59	Erratum to â€œA simple method for reducing seasonal bias and drift in eddy resolving ocean modelsâ€• [Ocean Modelling 13 (2006) 109â€“125]. Ocean Modelling, 2006, 14, 122-138.	2.4	7
60	Modelling deep seasonal temperature changes in the Labrador Sea. Geophysical Research Letters, 2006, 33, .	4.0	3
61	3D ecosystem modelling in the North Atlantic: Relative impacts of physical and biological parameterizations. Journal of Marine Systems, 2006, 61, 230-245.	2.1	20
62	Estimating the energy flux from the wind to ocean inertial motions: The sensitivity to surface wind fields. Geophysical Research Letters, 2005, 32, .	4.0	85
63	Vorticity Balance in Coarse-Resolution Global Ocean Simulations. Journal of Physical Oceanography, 2004, 34, 605-622.	1.7	16
64	On Conservation Equations in Oceanography: How Accurate Are Boussinesq Ocean Models?. Journal of Physical Oceanography, 2002, 32, 1574-1584.	1.7	34
65	Tidal currents and mixing in the Gulf of St. Lawrence: an application of the incremental approach to data assimilation. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 723-735.	1.4	24
66	Relaxing the Boussinesq Approximation in Ocean Circulation Models. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1911-1923.	1.3	31
67	Including Non-Boussinesq Effects in Boussinesq Ocean Circulation Models. Journal of Physical Oceanography, 2001, 31, 1616-1622.	1.7	13
68	Internal Tide Generation over Topography: Experiments with a Free-Surfacez-Level Ocean Model. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1076-1091.	1.3	24
69	Tidal currents and miÃ—ing in the Gulf of St. Lawrence: an application of the incremental approach to data assimilation. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 723-735.	1.4	22
70	Turbulence Characteristics in a Tidal Channel. Journal of Physical Oceanography, 2000, 30, 855-867.	1.7	56
71	Oceanographic data assimilation and regression analysis. Environmetrics, 2000, 11, 183-196.	1.4	17
72	Using a Broadband ADCP in a Tidal Channel. Part II: Turbulence. Journal of Atmospheric and Oceanic Technology, 1999, 16, 1568-1579.	1.3	172

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73	Using a Broadband ADCP in a Tidal Channel. Part I: Mean Flow and Shear. Journal of Atmospheric and Oceanic Technology, 1999, 16, 1556-1567.	1.3	84
74	The logarithmic layer in a tidal channel. Continental Shelf Research, 1997, 17, 1785-1801.	1.8	110
75	Application of a barotropic model to North Atlantic synoptic sea level variability. Journal of Marine Research, 1996, 54, 451-469.	0.3	9
76	Synoptic bottom pressure variability on the Labrador and Newfoundland Continental Shelves. Journal of Geophysical Research, 1995, 100, 8639.	3.3	4