

# Youyu Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8337837/publications.pdf>

Version: 2024-02-01

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	Using a Broadband ADCP in a Tidal Channel. Part II: Turbulence. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 1568-1579.	1.3	172
2	The logarithmic layer in a tidal channel. <i>Continental Shelf Research</i> , 1997, 17, 1785-1801.	1.8	110
3	Sea ice forecast verification in the Canadian Global Ice Ocean Prediction System. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 659-671.	2.7	90
4	Estimating the energy flux from the wind to ocean inertial motions: The sensitivity to surface wind fields. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	85
5	Using a Broadband ADCP in a Tidal Channel. Part I: Mean Flow and Shear. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 1556-1567.	1.3	84
6	Sea ice sensitivity to the parameterisation of open water area. <i>Journal of Operational Oceanography</i> , 2010, 3, 3-9.	1.2	63
7	A high-resolution ocean and sea-ice modelling system for the Arctic and North Atlantic oceans. <i>Geoscientific Model Development</i> , 2015, 8, 1577-1594.	3.6	61
8	Interannual and long-term hydrographic changes in the Yellow Sea during 1977-1998. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1025-1034.	1.4	57
9	Turbulence Characteristics in a Tidal Channel. <i>Journal of Physical Oceanography</i> , 2000, 30, 855-867.	1.7	56
10	A simple method for reducing seasonal bias and drift in eddy resolving ocean models. <i>Ocean Modelling</i> , 2006, 13, 109-125.	2.4	46
11	Hydrodynamic modeling of Lake Ontario: An intercomparison of three models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
12	Adaptive model of plankton dynamics for the North Atlantic. <i>Progress in Oceanography</i> , 2008, 76, 151-191.	3.2	41
13	Storm Surges in the Strait of Georgia Simulated with a Regional Model. <i>Atmosphere - Ocean</i> , 2016, 54, 1-21.	1.6	40
14	Synergies in Operational Oceanography: The Intrinsic Need for Sustained Ocean Observations. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
15	Assessment of a NEMO-based hydrodynamic modelling system for the Great Lakes. <i>Water Quality Research Journal of Canada</i> , 2012, 47, 198-214.	2.7	36
16	Oil droplets transport due to irregular waves: Development of large-scale spreading coefficients. <i>Marine Pollution Bulletin</i> , 2016, 104, 279-289.	5.0	35
17	On Conservation Equations in Oceanography: How Accurate Are Boussinesq Ocean Models?. <i>Journal of Physical Oceanography</i> , 2002, 32, 1574-1584.	1.7	34
18	Evaluation of a 3D hydrodynamic model and atmospheric forecast forcing using observations in Lake Ontario. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34

#	ARTICLE	IF	CITATIONS
19	Model-Observations Synergy in the Coastal Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	34
20	Relaxing the Boussinesq Approximation in Ocean Circulation Models. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 1911-1923.	1.3	31
21	Arctic sea ice and freshwater sensitivity to the treatment of the atmosphereâ€œiceâ€œocean surface layer. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4392-4417.	2.6	31
22	On influencing factors of hypoxia in waters adjacent to the Changjiang estuary. <i>Continental Shelf Research</i> , 2018, 152, 1-13.	1.8	29
23	Pacific Water Pathway in the Arctic Ocean and Beaufort Gyre in Two Simulations With Different Horizontal Resolutions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6414-6432.	2.6	26
24	Tidal currents and mixing in the Gulf of St. Lawrence: an application of the incremental approach to data assimilation. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 723-735.	1.4	24
25	Internal Tide Generation over Topography: Experiments with a Free-Surfacez-Level Ocean Model. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 1076-1091.	1.3	24
26	Variations of latent heat flux during tropical cyclones over the South China Sea. <i>Meteorological Applications</i> , 2014, 21, 717-723.	2.1	24
27	Transport of Oil Droplets in the Upper Ocean: Impact of the Eddy Diffusivity. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015727.	2.6	24
28	Tidal currents and mixing in the Gulf of St. Lawrence: an application of the incremental approach to data assimilation. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 723-735.	1.4	22
29	Assimilating long-term hydrographic information into an eddy-permitting model of the North Atlantic. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	21
30	Forcing mechanisms of heat content variations in the Yellow Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4504-4513.	2.6	21
31	3D ecosystem modelling in the North Atlantic: Relative impacts of physical and biological parameterizations. <i>Journal of Marine Systems</i> , 2006, 61, 230-245.	2.1	20
32	Interaction between the Tidal and Seasonal Variability of the Gulf of Maine and Scotian Shelf Region. <i>Journal of Physical Oceanography</i> , 2016, 46, 3279-3298.	1.7	20
33	Oceanographic data assimilation and regression analysis. <i>Environmetrics</i> , 2000, 11, 183-196.	1.4	17
34	Variability of sea surface height and circulation in the North Atlantic: Forcing mechanisms and linkages. <i>Progress in Oceanography</i> , 2015, 132, 273-286.	3.2	17
35	Future Changes in Oceanography and Biogeochemistry Along the Canadian Pacific Continental Margin. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	17
36	Vorticity Balance in Coarse-Resolution Global Ocean Simulations. <i>Journal of Physical Oceanography</i> , 2004, 34, 605-622.	1.7	16

#	ARTICLE	IF	CITATIONS
37	Mapping the Relationship between Northern Hemisphere Winter Surface Air Temperature and the Madden-Julian Oscillation. <i>Monthly Weather Review</i> , 2011, 139, 2439-2454.	1.4	15
38	Model simulated volume fluxes through the Canadian Arctic Archipelago and Davis Strait: Linking monthly variations to forcing in different seasons. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1927-1942.	2.6	15
39	Impacts of Currents and Waves on Bottom Drag Coefficient in the East China Shelf Seas. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7344-7354.	2.6	14
40	Including Non-Boussinesq Effects in Boussinesq Ocean Circulation Models. <i>Journal of Physical Oceanography</i> , 2001, 31, 1616-1622.	1.7	13
41	Summer hypoxia in Bohai Sea caused by changes in phytoplankton community. <i>Anthropocene Coasts</i> , 2021, 4, 77-86.	1.5	13
42	Mean surface topography of the northwest Atlantic: Comparison of estimates based on satellite, terrestrial gravity, and oceanographic observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	12
43	On the relationship between the Madden-Julian Oscillation and 2-m air temperature over central Asia in boreal winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,250.	3.3	12
44	Coastal Upwelling Off Southwest Nova Scotia Simulated With a High-Resolution Baroclinic Ocean Model. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2318-2331.	2.6	11
45	Sea Level Variations in the Tropical Pacific Ocean and the Madden-Julian Oscillation. <i>Journal of Physical Oceanography</i> , 2009, 39, 1984-1992.	1.7	10
46	A modelling study of inter-annual variation of Kuroshio intrusion on the shelf of East China Sea. <i>Journal of Ocean University of China</i> , 2013, 12, 537-548.	1.2	10
47	Seasonal Variation of the Deep Limb of the Pacific Meridional Overturning Circulation at Yap-Mariana Junction. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016017.	2.6	10
48	Dependence of Beaufort Sea Low Ice Condition in the Summer of 1998 on Ice Export in the Prior Winter. <i>Journal of Climate</i> , 2020, 33, 9247-9259.	3.2	10
49	Application of a barotropic model to North Atlantic synoptic sea level variability. <i>Journal of Marine Research</i> , 1996, 54, 451-469.	0.3	9
50	Surface Current in "Hotspot" Serves as a New and Effective Precursor for El Niño Prediction. <i>Scientific Reports</i> , 2017, 7, 166.	3.3	9
51	Modelling hydrographic changes in the Labrador sea over the past five decades. <i>Progress in Oceanography</i> , 2007, 73, 406-426.	3.2	8
52	High-resolution modelling of a coastal harbour in the presence of strong tides and significant river runoff. <i>Ocean Dynamics</i> , 2020, 70, 365-385.	2.2	8
53	Space-time variations of sea ice in Bohai Sea in the winter of 2009-2010 simulated with a coupled ocean and ice model. <i>Journal of Oceanography</i> , 2021, 77, 243-258.	1.7	8
54	Pathways, Volume Transport, and Seasonal Variability of the Lower Deep Limb of the Pacific Meridional Overturning Circulation at the Yap-Mariana Junction. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8

#	ARTICLE	IF	CITATIONS
55	Numerical Study of the Thermal Structure and Circulation in a Large and Deep Dimictic Lake Over Tibetan Plateau. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017517.	2.6	8
56	Erratum to "A simple method for reducing seasonal bias and drift in eddy resolving ocean models" [Ocean Modelling 13 (2006) 109-125]. <i>Ocean Modelling</i> , 2006, 14, 122-138.	2.4	7
57	Diffusive boundary layer influenced by bottom boundary hydrodynamics in tidal flows. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5994-6005.	2.6	7
58	Identification and analysis of high-frequency oscillations in the eyewalls of tropical cyclones. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 624-634.	4.3	7
59	Modelled Variations of Deep Convection in the Irminger Sea during 2003-10. <i>Journal of Physical Oceanography</i> , 2016, 46, 179-196.	1.7	7
60	Layered mixing on the New England Shelf in summer. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5776-5796.	2.6	6
61	A 4-Month Lead Predictor of Open-Water Onset in Bering Strait. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089573.	4.0	6
62	Examining tidal impacts on seasonal circulation and hydrography variability over the eastern Canadian shelf using a coupled circulation-ice regional model. <i>Progress in Oceanography</i> , 2020, 189, 102448.	3.2	6
63	Tropical Pacific Ocean and the Madden-Julian Oscillation: Role of wind and buoyancy forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	5
64	Reducing Drift and Bias of a Global Ocean Model by Frequency-Dependent Nudging. <i>Atmosphere - Ocean</i> , 2014, 52, 242-255.	1.6	5
65	Synoptic bottom pressure variability on the Labrador and Newfoundland Continental Shelves. <i>Journal of Geophysical Research</i> , 1995, 100, 8639.	3.3	4
66	Evaluation of Structured and Unstructured Models for Application in Operational Ocean Forecasting in Nearshore Waters. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 484.	2.6	4
67	Modelling deep seasonal temperature changes in the Labrador Sea. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	3
68	Revealing the effects of the El Niño-southern oscillation on tropical cyclone intensity over the western north pacific from a model sensitivity study. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1117-1128.	4.3	3
69	Rapid reduction of tidal amplitude due to form drag in a narrow channel. <i>Continental Shelf Research</i> , 2021, 213, 104299.	1.8	3
70	Vertical Motions Prior to the Intensification of Simulated Typhoon Hagupit (2008). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 577-592.	2.6	2
71	A Model Evaluation of Biological Effects on Seasonal Variation of Air-Sea CO <sub>2</sub> Flux in the Yellow and East China Seas. <i>Atmosphere - Ocean</i> , 2018, 56, 12-27.	1.6	1
72	Variations in High-frequency Oscillations of Tropical Cyclones over the Western North Pacific. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 423-434.	4.3	1

#	ARTICLE	IF	CITATIONS
73	Impacts of Instrumented Bottom Frame on Flow and Turbulence Measurements. Journal of Atmospheric and Oceanic Technology, 2022, 39, 1445-1456.	1.3	1
74	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
75	Operational Ocean Ice Prediction System Validation for the Canadian Arctic and Northwest Atlantic. , 2016, , .		0
76	Seasonal and Interannual Variations of Sea Temperature Influenced by Galápagos Islands in Eastern Tropical Pacific Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 3007-3020.	2.6	0