Ming Li

List of Publications by Year
in descending order

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98	4,054	87888 38	128289 60
papers	citations	h-index	g-index

100	100	100	3312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vertical swimming behavior influences the dispersal of simulated oyster larvae in a coupled particle-tracking and hydrodynamic model of Chesapeake Bay. Marine Ecology - Progress Series, 2008, 359, 99-115.	1.9	275
2	Simulations of Chesapeake Bay estuary: Sensitivity to turbulence mixing parameterizations and comparison with observations. Journal of Geophysical Research, 2005, 110, .	3.3	158
3	The Connection between Bubble Size Spectra and Energy Dissipation Rates in the Upper Ocean. Journal of Physical Oceanography, 2000, 30, 2163-2171.	1.7	157
4	The Coupled Boundary Layers and Airâ€“Sea Transfer Experiment in Low Winds. Bulletin of the American Meteorological Society, 2007, 88, 341-356.	3.3	154
5	A regime diagram for classifying turbulent large eddies in the upper ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 259-278.	1.4	135
6	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay. Nature Communications, 2017, 8, 369.	12.8	128
7	Tidal energy fluxes and dissipation in the Chesapeake Bay. Continental Shelf Research, 2006, 26, 752-770.	1.8	116
8	Patterns of Bubble Clouds organized by Langmuir Circulation. Journal of Physical Oceanography, 1995, 25, 1426-1440.	1.7	113
9	Cell merging and the jet/downwelling ratio in Langmuir circulation. Journal of Marine Research, 1993, 51, 737-769.	0.3	110
10	The relationship between oil droplet size and upper ocean turbulence. Marine Pollution Bulletin, 1998, 36, 961-970.	5.0	107
11	Mixed Layer Deepening Due to Langmuir Circulation. Journal of Physical Oceanography, 1997, 27, 121-132.	1.7	104
12	Quantifying the effects of nutrient loading on dissolved O2 cycling and hypoxia in Chesapeake Bay using a coupled hydrodynamicâ€“biogeochemical model. Journal of Marine Systems, 2014, 139, 139-158.	2.1	100
13	What drives interannual variability of hypoxia in Chesapeake Bay: Climate forcing versus nutrient loading?. Geophysical Research Letters, 2016, 43, 2127-2134.	4.0	91
14	Impact of sea level rise on tidal range in Chesapeake and Delaware Bays. Journal of Geophysical Research: Oceans, 2017, 122, 3917-3938.	2.6	85
15	Role of Langmuir Circulation in the Deepening of the Ocean Surface Mixed Layer. Science, 1995, 270, 1955-1957.	12.6	84
16	Hurricane-induced storm surges, currents and destratification in a semi-enclosed bay. Geophysical Research Letters, 2006, 33, .	4.0	77
17	Challenges associated with modeling low-oxygen waters inÂChesapeake Bay: a multiple model comparison. Biogeosciences, 2016, 13, 2011-2028.	3.3	73
18	Is there a signal of seaâ€level rise in Chesapeake Bay salinity?. Journal of Geophysical Research, 2008, 113, .	3.3	70

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19	Floodâ€“ebb and springâ€“neap variations of mixing, stratification and circulation in Chesapeake Bay. Continental Shelf Research, 2009, 29, 4-14.	1.8	69
20	Effects of winds on stratification and circulation in a partially mixed estuary. Journal of Geophysical Research, 2011, 116, .	3.3	69
21	Natural and Anthropogenic Drivers of Acidification in Large Estuaries. Annual Review of Marine Science, 2021, 13, 23-55.	11.6	68
22	Hurricane-induced destratification and restratification in a partially-mixed estuary. Journal of Marine Research, 2007, 65, 169-192.	0.3	65
23	Tidal effects on the bulge region of Changjiang River plume. Estuarine, Coastal and Shelf Science, 2012, 97, 149-160.	2.1	63
24	Large Projected Decline in Dissolved Oxygen in a Eutrophic Estuary Due to Climate Change. Journal of Geophysical Research: Oceans, 2019, 124, 8271-8289.	2.6	59
25	A Budget Analysis of Bottom-Water Dissolved Oxygen in Chesapeake Bay. Estuaries and Coasts, 2015, 38, 2132-2148.	2.2	53
26	What Determines Seasonal and Interannual Variability of Phytoplankton and Zooplankton in Strongly Estuarine Systems?. Estuarine, Coastal and Shelf Science, 2000, 50, 467-488.	2.1	52
27	Resonance and sea level variability in Chesapeake Bay. Continental Shelf Research, 2008, 28, 2565-2573.	1.8	51
28	Windâ€driven lateral circulation in a stratified estuary and its effects on the alongâ€channel flow. Journal of Geophysical Research, 2012, 117, .	3.3	51
29	Sea-level rise and other influences on decadal-scale salinity variability in a coastal plain estuary. Estuarine, Coastal and Shelf Science, 2015, 157, 79-92.	2.1	51
30	Controls on Carbonate System Dynamics in a Coastal Plain Estuary: A Modeling Study. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 61-78.	3.0	51
31	Is Langmuir Circulation Driven by Surface Waves or Surface Cooling?. Journal of Physical Oceanography, 1995, 25, 64-76.	1.7	48
32	How do uncertainties in hurricane model forecasts affect storm surge predictions in a semi-enclosed bay?. Estuarine, Coastal and Shelf Science, 2010, 90, 61-72.	2.1	47
33	Fingerprints of Sea Level Rise on Changing Tides in the Chesapeake and Delaware Bays. Journal of Geophysical Research: Oceans, 2017, 122, 8102-8125.	2.6	47
34	Sediment deposition from tropical storms in the upper Chesapeake Bay: Field observations and model simulations. Continental Shelf Research, 2014, 86, 6-16.	1.8	45
35	Chesapeake Bay acidification buffered by spatially decoupled carbonate mineral cycling. Nature Geoscience, 2020, 13, 441-447.	12.9	44
36	Effects of Wind Straining on Estuarine Stratification: A Combined Observational and Modeling Study. Journal of Geophysical Research: Oceans, 2018, 123, 2363-2380.	2.6	43

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37	Generation of an estuarine sediment plume by a tropical storm. Journal of Geophysical Research: Oceans, 2013, 118, 856-868.	2.6	42
38	The influence of climate modes on streamflow in the Mid-Atlantic region of the United States. Journal of Hydrology: Regional Studies, 2016, 5, 80-99.	2.4	40
39	Seasonal and internannual variability of estuarine circulation in a box model of the Strait of Georgia and Juan de Fuca strait. Atmosphere - Ocean, 1999, 37, 1-19.	1.6	39
40	Discerning effects of warming, sea level rise and nutrient management on long-term hypoxia trends in Chesapeake Bay. Science of the Total Environment, 2020, 737, 139717.	8.0	35
41	Ecosystem Metabolism and Carbon Balance in Chesapeake Bay: A 30â€Year Analysis Using a Coupled Hydrodynamicâ€Biogeochemical Model. Journal of Geophysical Research: Oceans, 2019, 124, 6141-6153.	2.6	34
42	Role of Late Winterâ€“Spring Wind Influencing Summer Hypoxia in Chesapeake Bay. Estuaries and Coasts, 2013, 36, 683-696.	2.2	33
43	Asymmetric Tidal Mixing due to the Horizontal Density Gradient*. Journal of Physical Oceanography, 2008, 38, 418-434.	1.7	31
44	Assessing storm surge impacts on coastal inundation due to climate change: case studies of Baltimore and Dorchester County in Maryland. Natural Hazards, 2020, 103, 2561-2588.	3.4	31
45	Effects of tides on freshwater and volume transports in the Changjiang River plume. Journal of Geophysical Research, 2012, 117, .	3.3	29
46	Role of Ekman transport versus Ekman pumping in driving summer upwelling in the South China Sea. Journal of Ocean University of China, 2013, 12, 355-365.	1.2	29
47	Roles of breaking waves and Langmuir circulation in the surface boundary layer of a coastal ocean. Journal of Geophysical Research: Oceans, 2013, 118, 5173-5187.	2.6	28
48	Influences of a River Dam on Delivery and Fate of Sediments and Particulate Nutrients to the Adjacent Estuary: Case Study of Conowingo Dam and Chesapeake Bay. Estuaries and Coasts, 2019, 42, 2072-2095.	2.2	27
49	Circulation dynamics and salt balance in a lagoonal estuary. Journal of Geophysical Research, 2012, 117, .	3.3	26
50	Roles of Windâ€Driven Currents and Surface Waves in Sediment Resuspension and Transport During a Tropical Storm. Journal of Geophysical Research: Oceans, 2018, 123, 8638-8654.	2.6	26
51	Oil dispersion by turbulence and coherent circulations. Ocean Engineering, 1994, 21, 575-586.	4.3	25
52	Analysis of Vortex Dynamics of Lateral Circulation in a Straight Tidal Estuary*. Journal of Physical Oceanography, 2014, 44, 2779-2795.	1.7	24
53	Ocean destratification and fish evacuation caused by a Mid-Atlantic tropical storm. ICES Journal of Marine Science, 2019, 76, 573-584.	2.5	20
54	Understanding Anthropogenic Impacts on pH and Aragonite Saturation State in Chesapeake Bay: Insights From a 30â€Year Model Study. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005620.	3.0	20

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55	A three-dimensional mechanistic model of Prorocentrum minimum blooms in eutrophic Chesapeake Bay. Science of the Total Environment, 2021, 769, 144528.	8.0	20
56	A note on hydraulic theory of internal bores. Dynamics of Atmospheres and Oceans, 1998, 28, 1-7.	1.8	19
57	Baroclinic Effects on Wind-Driven Lateral Circulation in Chesapeake Bay. Journal of Physical Oceanography, 2017, 47, 433-445.	1.7	19
58	A three-dimensional mixotrophic model of Karlodinium veneficum blooms for a eutrophic estuary. Harmful Algae, 2022, 113, 102203.	4.8	19
59	Estimating Horizontal Dispersion of Floating Particles in Wind-driven Upper Ocean. Spill Science and Technology Bulletin, 2000, 6, 255-261.	0.4	18
60	Seasonal variation of eddy kinetic energy in the South China Sea. Acta Oceanologica Sinica, 2012, 31, 1-15.	1.0	18
61	Sensitivity of plankton biomass and productivity to variations in physical forcing and biological parameters in Chesapeake Bay. Journal of Marine Research, 2009, 67, 667-700.	0.3	17
62	Parameterizing particle dispersion in Langmuir circulation. Journal of Geophysical Research, 1999, 104, 26059-26068.	3.3	16
63	Large Eddy Simulations of Upper-Ocean Response to a Midlatitude Storm and Comparison with Observations*. Journal of Physical Oceanography, 2009, 39, 2295-2309.	1.7	15
64	Impacts of Ocean Warming, Sea Level Rise, and Coastline Management on Storm Surge in a Semienclosed Bay. Journal of Geophysical Research: Oceans, 2019, 124, 6498-6514.	2.6	15
65	Effects of time dependence in unstratified tidal boundary layers: results from large eddy simulations. Estuarine, Coastal and Shelf Science, 2005, 62, 193-204.	2.1	14
66	Largeâ€eddy simulation of the tidalâ€cycle variations of an estuarine boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	14
67	Dynamics of windâ€driven circulation in a shallow lagoon with strong horizontal density gradient. Journal of Geophysical Research, 2012, 117, .	3.3	14
68	Linkage between lateral circulation and nearâ€surface vertical mixing in a coastal plain estuary. Journal of Geophysical Research: Oceans, 2015, 120, 4048-4067.	2.6	14
69	Sensitivity Analysis of Hurricane Arthur (2014) Storm Surge Forecasts to WRF Physics Parameterizations and Model Configurations. Weather and Forecasting, 2017, 32, 1745-1764.	1.4	14
70	Effects of Wind-Driven Lateral Upwelling on Estuarine Carbonate Chemistry. Frontiers in Marine Science, 2020, 7, .	2.5	13
71	Flood-ebb and spring-neap variations of lateral circulation in the James River estuary. Continental Shelf Research, 2017, 148, 9-18.	1.8	11
72	Breaking of internal solitary waves generated by an estuarine gravity current. Geophysical Research Letters, 2017, 44, 7366-7373.	4.0	11

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73	Generation of Internal Solitary Waves by Lateral Circulation in a Stratified Estuary. Journal of Physical Oceanography, 2017, 47, 1789-1797.	1.7	10
74	Climate-induced interannual variability and projected change of two harmful algal bloom taxa in Chesapeake Bay, USA. Science of the Total Environment, 2020, 744, 140947.	8.0	9
75	Testing mechanistic eÃ—planations of observed correlations between environmental factors and marine fisheries. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 208-219.	1.4	9
76	Supplyâ€controlled calcium carbonate dissolution decouples the seasonal dissolved oxygen and<scp>pH</scp>minima in Chesapeake Bay. Limnology and Oceanography, 2021, 66, 3796-3810.	3.1	8
77	Seasonal life strategy of <scp>Prorocentrum minimum</scp> in Chesapeake Bay, <scp>USA</scp>: Validation of the role of physical transport using a coupled physicalâ€“biogeochemicalâ€“harmful algal bloom model. Limnology and Oceanography, 2021, 66, 3873-3886.	3.1	7
78	Modeling Physical and Biogeochemical Controls on Dissolved Oxygen in Chesapeake Bay: Lessons Learned from Simple and Complex Approaches. , 2017, , 95-118.		7
79	Generation of Internal Lee Waves by Lateral Circulation in a Coastal Plain Estuary. Journal of Physical Oceanography, 2019, 49, 1687-1697.	1.7	6
80	Wind-driven lateral variations of partial pressure of carbon dioxide in a large estuary. Journal of Marine Systems, 2019, 195, 67-73.	2.1	6
81	Advancements and Continuing Challenges of Emerging Technologies and Tools for Detecting Harmful Algal Blooms, Their Antecedent Conditions and Toxins, and Applications in Predictive Models. Ecological Studies, 2018, , 339-357.	1.2	5
82	Observations of the lateral structure of wind-driven flow in a coastal plain estuary. Estuarine, Coastal and Shelf Science, 2019, 217, 262-270.	2.1	5
83	Impacts of Oceanic Mixed Layer on Hurricanes: A Simulation Experiment With Hurricane Sandy. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015851.	2.6	5
84	Estuarine Forecasts at Daily Weather to Subseasonal Time Scales. Earth and Space Science, 2020, 7, e2020EA001179.	2.6	5
85	A Metamodel-Based Analysis of the Sensitivity and Uncertainty of the Response of Chesapeake Bay Salinity and Circulation to Projected Climate Change. Estuaries and Coasts, 2021, 44, 70-87.	2.2	5
86	Comment on â€œEnergetics of borelike internal wavesâ€•by Frank S. Henyey and Antje Hoering. Journal of Geophysical Research, 1998, 103, 3339-3341.	3.3	4
87	Parameterization of mixing by secondary circulation in estuaries. Journal of Geophysical Research: Oceans, 2017, 122, 5666-5688.	2.6	4
88	Generation of Nearâ€Inertial Currents on the Midâ€Atlantic Bight by Hurricane Arthur (2014). Journal of Geophysical Research: Oceans, 2018, 123, 3100-3116.	2.6	4
89	Bubble and Temperature Fields in Langmuir Circulation. Lecture Notes in Physics, 2001, , 91-105.	0.7	4
90	The recurring impact of storm disturbance on black sea bass (Centropristis striata) movement behaviors in the Mid-Atlantic Bight. PLoS ONE, 2020, 15, e0239919.	2.5	4

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91	Wall-layer models for large-eddy simulations of high Reynolds number non-equilibrium flows. , 2007, , 47-54.		3
92	Observing the urban estuary: Review and prospect. , 2012, , .		2
93	Applying a Three-dimensional Habitat Volume Model to Estimate Sensitivity of Chesapeake Bay Living Resources to Environmental Change: a Proof-of-Concept Exercise. Estuaries and Coasts, 2022, 45, 393-412.	2.2	2
94	Chesapeake Inundation Prediction System (CIPS): A Regional Prototype for a National Problem. , 2007, , .		1
95	River flow control on the phytoplankton dynamics of Chesapeake Bay. Journal of Ocean University of China, 2013, 12, 103-114.	1.2	1
96	Time and Scale Dependence in Estuarine Longitudinal Dispersion. Journal of Geophysical Research: Oceans, 2018, 123, 8792-8811.	2.6	1
97	Probabilistic Projections of High-Tide Flooding for the State of Maryland in the Twenty-First Century. , 2020, , 65-86.		1
98	Predicting and Visualizing Storm Surges and Coastal Inundation: A Case Study from Maryland, USA. Advances in Natural and Technological Hazards Research, 2014, , 131-148.	1.1	0