

# Tal Ezer

## List of Publications by Year in descending order

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92  
papers

3,700  
citations

117571

34  
h-index

138417

58  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gulf Stream's induced sea level rise and variability along the U.S. mid-Atlantic coast. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 685-697.	1.0	274
2	Accelerated flooding along the U.S. East Coast: On the impact of sea-level rise, tides, storms, the Gulf Stream, and the North Atlantic Oscillations. <i>Earth's Future</i> , 2014, 2, 362-382.	2.4	191
3	Improving Oceanic Overflow Representation in Climate Models: The Gravity Current Entrainment Climate Process Team. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 657-670.	1.7	153
4	A Gulf Stream model and an altimetry assimilation scheme. <i>Journal of Geophysical Research</i> , 1991, 96, 8779-8795.	3.3	150
5	Fish spawning aggregations: where well-placed management actions can yield big benefits for fisheries and conservation. <i>Fish and Fisheries</i> , 2017, 18, 128-144.	2.7	134
6	Is sea level rise accelerating in the Chesapeake Bay? A demonstration of a novel new approach for analyzing sea level data. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	131
7	A generalized coordinate ocean model and a comparison of the bottom boundary layer dynamics in terrain-following and in z-level grids. <i>Ocean Modelling</i> , 2004, 6, 379-403.	1.0	122
8	Sea level rise, spatially uneven and temporally unsteady: Why the U.S. East Coast, the global tide gauge record, and the global altimeter data show different trends. <i>Geophysical Research Letters</i> , 2013, 40, 5439-5444.	1.5	120
9	DAMOCES-NAB: the base experiments. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 32, 155-183.	0.7	110
10	Diagnostic and prognostic calculations of the North Atlantic circulation and sea level using a sigma coordinate ocean model. <i>Journal of Geophysical Research</i> , 1994, 99, 14159.	3.3	107
11	Developments in terrain-following ocean models: intercomparisons of numerical aspects. <i>Ocean Modelling</i> , 2002, 4, 249-267.	1.0	103
12	Continuous Assimilation of Geosat Altimeter Data into a Three-Dimensional Primitive Equation Gulf Stream Model. <i>Journal of Physical Oceanography</i> , 1994, 24, 832-847.	0.7	100
13	A three-dimensional surface wave-ocean circulation coupled model and its initial testing. <i>Ocean Dynamics</i> , 2010, 60, 1339-1355.	0.9	99
14	Detecting changes in the transport of the Gulf Stream and the Atlantic overturning circulation from coastal sea level data: The extreme decline in 2009-2010 and estimated variations for 1935-2012. <i>Global and Planetary Change</i> , 2015, 129, 23-36.	1.6	93
15	A Generalization of a Sigma Coordinate Ocean Model and an Intercomparison of Model Vertical Grids. , 2002, , 55-72.		89
16	A Numerical Study of the Variability and the Separation of the Gulf Stream, Induced by Surface Atmospheric Forcing and Lateral Boundary Flows. <i>Journal of Physical Oceanography</i> , 1992, 22, 660-682.	0.7	81
17	On the seasonal mixed layer simulated by a basin-scale ocean model and the Mellor-Yamada turbulence scheme. <i>Journal of Geophysical Research</i> , 2000, 105, 16843-16855.	3.3	77
18	The variability of currents in the Yucatan Channel: Analysis of results from a numerical ocean model. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	70

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19	Sea level variations induced by heating and cooling: An evaluation of the Boussinesq approximation in ocean models. <i>Journal of Geophysical Research</i> , 1995, 100, 20565.	3.3	67
20	Near-Surface Currents in DeSoto Canyon (1997â€“99): Comparison of Current Meters, Satellite Observation, and Model Simulation. <i>Journal of Physical Oceanography</i> , 2003, 33, 313-326.	0.7	66
21	Improving simulations of the upper ocean by inclusion of surface waves in the Mellor-Yamada turbulence scheme. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
22	Simulations of the Atlantic Ocean with a free surface sigma coordinate ocean model. <i>Journal of Geophysical Research</i> , 1997, 102, 15647-15657.	3.3	60
23	Entrainment, diapycnal mixing and transport in three-dimensional bottom gravity current simulations using the Mellorâ€“Yamada turbulence scheme. <i>Ocean Modelling</i> , 2005, 9, 151-168.	1.0	60
24	Sensitivity studies with the North Atlantic sigma coordinate Princeton Ocean Model. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 32, 185-208.	0.7	59
25	On the interpentadal variability of the North Atlantic Ocean: Model simulated changes in transport, meridional heat flux and coastal sea level between 1955â€“1959 and 1970â€“1974. <i>Journal of Geophysical Research</i> , 1995, 100, 10559.	3.3	58
26	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	51
27	Impacts of Basin-Scale Climate Modes on Coastal Sea Level: a Review. <i>Surveys in Geophysics</i> , 2019, 40, 1493-1541.	2.1	50
28	On the variability of the flow along the Meso-American Barrier Reef system: a numerical model study of the influence of the Caribbean current and eddies. <i>Ocean Dynamics</i> , 2005, 55, 458-475.	0.9	47
29	Baroclinic tidal flows and inundation processes in Cook Inlet, Alaska: numerical modeling and satellite observations. <i>Ocean Dynamics</i> , 2007, 57, 205-221.	0.9	43
30	Data Assimilation Experiments in the Gulf Stream Region: How Useful Are Satellite-Derived Surface Data for Nowcasting the Subsurface Fields?. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 1379-1391.	0.5	42
31	Data-driven reconstruction reveals large-scale ocean circulation control on coastal sea level. <i>Nature Climate Change</i> , 2021, 11, 514-520.	8.1	40
32	Decadal Variabilities of the Upper Layers of the Subtropical North Atlantic: An Ocean Model Study. <i>Journal of Physical Oceanography</i> , 1999, 29, 3111-3124.	0.7	39
33	On the Interaction between the Gulf Stream and the New England Seamount Chain. <i>Journal of Physical Oceanography</i> , 1994, 24, 191-204.	0.7	37
34	Topographic influence on overflow dynamics: Idealized numerical simulations and the Faroe Bank Channel overflow. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	37
35	Can the Gulf Stream induce coherent short-term fluctuations in sea level along the US East Coast? A modeling study. <i>Ocean Dynamics</i> , 2016, 66, 207-220.	0.9	37
36	Can long-term variability in the Gulf Stream Transport be inferred from sea level?. <i>Geophysical Research Letters</i> , 2001, 28, 1031-1034.	1.5	36

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37	Regional Differences in Sea Level Rise Between the Mid-Atlantic Bight and the South Atlantic Bight: Is the Gulf Stream to Blame?. <i>Earth's Future</i> , 2019, 7, 771-783.	2.4	35
38	Observations and operational model simulations reveal the impact of Hurricane Matthew (2016) on the Gulf Stream and coastal sea level. <i>Dynamics of Atmospheres and Oceans</i> , 2017, 80, 124-138.	0.7	34
39	On the Movement of Beluga Whales in Cook Inlet, Alaska: Simulations of Tidal and Environmental Impacts Using a Hydrodynamic Inundation Model. <i>Oceanography</i> , 2008, 21, 186-195.	0.5	31
40	A Numerical Study of the Interaction between a Deep Cold Jet and the Bottom Boundary Layer of the Ocean. <i>Journal of Physical Oceanography</i> , 1990, 20, 801-816.	0.7	30
41	Nonlinear Sea-Level Trends and Long-Term Variability on Western European Coasts. <i>Journal of Coastal Research</i> , 2016, 320, 744-755.	0.1	28
42	Spatial variations of sea level along the coast of Thailand: Impacts of extreme land subsidence, earthquakes and the seasonal monsoon. <i>Global and Planetary Change</i> , 2014, 122, 70-81.	1.6	26
43	Revisiting the problem of the Gulf Stream separation: on the representation of topography in ocean models with different types of vertical grids. <i>Ocean Modelling</i> , 2016, 104, 15-27.	1.0	26
44	Modeling and observations of high-frequency flow variability and internal waves at a Caribbean reef spawning aggregation site. <i>Ocean Dynamics</i> , 2011, 61, 581-598.	0.9	23
45	On the interaction between a hurricane, the Gulf Stream and coastal sea level. <i>Ocean Dynamics</i> , 2018, 68, 1259-1272.	0.9	21
46	Description and Mechanisms of the Mid-Year Upwelling in the Southern Caribbean Sea from Remote Sensing and Local Data. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 36.	1.2	19
47	Sea Level Acceleration in the China Seas. <i>Water (Switzerland)</i> , 2016, 8, 293.	1.2	18
48	On the predictability of high water level along the US East Coast: can the Florida Current measurement be an indicator for flooding caused by remote forcing?. <i>Ocean Dynamics</i> , 2017, 67, 751-766.	0.9	18
49	The Increased Risk of Flooding in Hampton Roads: On the Roles of Sea Level Rise, Storm Surges, Hurricanes, and the Gulf Stream. <i>Marine Technology Society Journal</i> , 2018, 52, 34-44.	0.3	18
50	A Comparison of Gulf Stream Sea Surface Height Fields Derived from Geosat Altimeter Data and Those Derived from Sea Surface Temperature Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 1993, 10, 76.	0.5	16
51	A model study of wind-induced western boundary current variabilities. <i>Journal of Marine Systems</i> , 1992, 3, 321-342.	0.9	15
52	The role of the Alaskan Stream in modulating the Bering Sea climate. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
53	On the dynamics and morphology of extensive tidal mudflats: Integrating remote sensing data with an inundation model of Cook Inlet, Alaska. <i>Ocean Dynamics</i> , 2010, 60, 1307-1318.	0.9	15
54	Analysis of tidal amplitude changes using the EMD method. <i>Continental Shelf Research</i> , 2017, 148, 44-52.	0.9	15

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55	Analysis of the changing patterns of seasonal flooding along the U.S. East Coast. <i>Ocean Dynamics</i> , 2020, 70, 241-255.	0.9	15
56	The long-term and far-reaching impact of hurricane Dorian (2019) on the Gulf Stream and the coast. <i>Journal of Marine Systems</i> , 2020, 208, 103370.	0.9	14
57	The contribution of hurricane remote ocean forcing to storm surge along the Southeastern U.S. coast. <i>Coastal Engineering</i> , 2022, 173, 104098.	1.7	14
58	Modeled and observed empirical orthogonal functions of currents in the Yucatan Channel, Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	13
59	The development of a 3D computational mesh to improve the representation of dynamic processes: The Black Sea test case. <i>Ocean Modelling</i> , 2020, 146, 101534.	1.0	13
60	Numerical modeling of the impact of hurricanes on ocean dynamics: sensitivity of the Gulf Stream response to stormâ€™s track. <i>Ocean Dynamics</i> , 2019, 69, 1053-1066.	0.9	12
61	Global sea level reconstruction for 1900â€“2015 reveals regional variability in ocean dynamics and an unprecedented long weakening in the Gulf Stream flow since the 1990s. <i>Ocean Science</i> , 2020, 16, 997-1016.	1.3	12
62	Physicalâ€“biological interactions in a subarctic estuary: How do environmental and physical factors impact the movement and survival of beluga whales in Cook Inlet, Alaska?. <i>Journal of Marine Systems</i> , 2013, 111-112, 120-129.	0.9	11
63	On the dynamics of low latitude, wide and shallow coastal system: numerical simulations of the Upper Gulf of Thailand. <i>Ocean Dynamics</i> , 2014, 64, 557-571.	0.9	10
64	Combining remote sensing data and an inundation model to map tidal mudflat regions and improve flood predictions: A proof of concept demonstration in Cook Inlet, Alaska. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	9
65	Editorialâ€™International Workshop on Modeling the Ocean (IWMO) special issue in <i>Ocean Dynamics</i> . <i>Ocean Dynamics</i> , 2010, 60, 299-300.	0.9	9
66	On the dynamics of strait flows: an ocean model study of the Aleutian passages and the Bering Strait. <i>Ocean Dynamics</i> , 2013, 63, 243-263.	0.9	8
67	River discharge predicts spatial distributions of beluga whales in the Upper Cook Inlet, Alaska, during early summer. <i>Polar Biology</i> , 2013, 36, 1077-1087.	0.5	7
68	A modeling study of the role that bottom topography plays in Gulf Stream dynamics and in influencing the tilt of mean sea level along the US East Coast. <i>Ocean Dynamics</i> , 2017, 67, 651-664.	0.9	7
69	Extreme flows and unusual water levels near a Caribbean coral reef: was this a case of a â€œperfect stormâ€?. <i>Ocean Dynamics</i> , 2012, 62, 1043-1057.	0.9	5
70	Numerical study of the diapycnal flow through a tidal front with passive tracers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	4
71	Multi-core structure of the Kuroshio in the East China Sea from long-term transect observations. <i>Ocean Dynamics</i> , 2009, 59, 477-488.	0.9	4
72	Tidal-driven dynamics and mixing processes in a coastal ocean model with wetting and drying. <i>Ocean Dynamics</i> , 2010, 60, 461-478.	0.9	4

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73	Editorialâ€™International Workshop on Modeling the Ocean (IWMO) special issue part 2 in ocean dynamics. Ocean Dynamics, 2010, 60, 1271-1272.	0.9	4
74	Variability and upward trend in the kinetic energy of western boundary currents over the last century: impacts from barystatic and dynamic sea level change. Climate Dynamics, 2021, 57, 2351.	1.7	4
75	Small-scale spatial structure and long-term variability of near-bottom layers in the HEBBLE area. Marine Geology, 1991, 99, 319-328.	0.9	3
76	Editorialâ€™The 2nd International Workshop on Modeling the Ocean (IWMO-2010). Ocean Dynamics, 2011, 61, 1287-1289.	0.9	3
77	Empirical Mode Decomposition for Modeling of Parallel Applications on Intel Xeon Phi Processors. , 2017, , .		3
78	Spatiotemporal variability of the ocean since 1900: testing a new analysis approach using global sea level reconstruction. Ocean Dynamics, 2022, 72, 79-97.	0.9	3
79	Editorialâ€™The 3rd International Workshop on Modeling the Ocean (IWMO 2011). Ocean Dynamics, 2013, 63, 307-309.	0.9	2
80	Editorialâ€™the 4th International Workshop on Modeling the Ocean (IWMO 2012). Ocean Dynamics, 2013, 63, 1345-1347.	0.9	2
81	Editorialâ€™the 5th International workshop on modeling the ocean (IWMO 2013). Ocean Dynamics, 2014, 64, 1531-1534.	0.9	2
82	On the Response of the Atlantic Ocean to Climatic Changes in High Latitudes: Sensitivity Studies with a Sigma Coordinate Ocean Model. Geophysical Monograph Series, 0, , 199-215.	0.1	1
83	The 11th International Workshop on Modeling the Ocean (IWMO 2019) in Wuxi, China, on June 17â€™20, 2019. Ocean Dynamics, 2021, 71, 471-474.	0.9	1
84	The impact of remote temperature anomalies on the strength and position of the Gulf Stream and on coastal sea level variability: a model sensitivity study. Ocean Dynamics, 2022, 72, 223-239.	0.9	1
85	On eddy diffusion profiles in oceanic bottom boundary layers associated with cold eddies and filaments. Boundary-Layer Meteorology, 1989, 48, 83-97.	1.2	0
86	Integration of Landsat imagery and an inundation model in flood assessment and predictions: A case study in Cook Inlet, Alaska. , 2009, , .		0
87	Editorialâ€™the 7th International Workshop on Modeling the Ocean (IWMO 2015). Ocean Dynamics, 2017, 67, 1645-1647.	0.9	0
88	Editorialâ€™The 6th International Workshop on Modeling the Ocean (IWMO 2014). Ocean Dynamics, 2017, 67, 317-319.	0.9	0
89	Editorialâ€™the 8th International Workshop on Modeling the Ocean (IWMO 2016) in Bologna, Italy, June 7â€™10, 2016. Ocean Dynamics, 2018, 68, 153-156.	0.9	0
90	Applying EMD/HHT analysis to power traces of applications executed on systems with Intel Xeon Phi. International Journal of High Performance Computing Applications, 2020, 34, 187-198.	2.4	0

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91	The 9th International Workshop on Modeling the Ocean (IWMO 2017) in Seoul, Korea, July 3â€“6, 2017. Ocean Dynamics, 2020, 70, 163-164.	0.9	0
92	The 10th International Workshop on Modeling the Ocean (IWMO 2018) in Santos, Brazil, June 25â€“28, 2018. Ocean Dynamics, 2020, 70, 839-841.	0.9	0