Ichiro Fukumori

List of Publications by Year
in descending order

79 papers	4,594 citations	76326 40 h-index	106344 65 g-index
81 all docs	81 docs citations	81 times ranked	4398 citing authors

#	Article	IF	Citations
1	Concepts and Terminology for Sea Level: Mean, Variability and Change, Both Local and Global. Surveys in Geophysics, 2019, 40, 1251-1289.	4.6	262
2	A verification framework for interannual-to-decadal predictions experiments. Climate Dynamics, 2013, 40, 245-272.	3.8	254
3	Using Green's Functions to Calibrate an Ocean General Circulation Model. Monthly Weather Review, 2005, 133, 1224-1240.	1.4	179
4	The Global General Circulation of the Ocean Estimated by the ECCO-Consortium. Oceanography, 2009, 22, 88-103.	1.0	175
5	Effects of the Indonesian Throughflow on the Pacific and Indian Oceans. Journal of Physical Oceanography, 2002, 32, 1404-1429.	1.7	171
6	An approximate Kaiman filter for ocean data assimilation: An example with an idealized Gulf Stream model. Journal of Geophysical Research, 1995, 100, 6777.	3.3	161
7	A Partitioned Kalman Filter and Smoother. Monthly Weather Review, 2002, 130, 1370-1383.	1.4	159
8	Atmospheric and oceanic excitation of the Earth's wobbles during 1980â€“2000. Journal of Geophysical Research, 2003, 108, .	3.3	150
9	Nature of global large-scale sea level variability in relation to atmospheric forcing: A modeling study. Journal of Geophysical Research, 1998, 103, 5493-5512.	3.3	149
10	Deep-ocean contribution to sea level and energy budget not detectable over the past decade. Nature Climate Change, 2014, 4, 1031-1035.	18.8	137
11	Distinguishing the Roles of Natural and Anthropogenically Forced Decadal Climate Variability. Bulletin of the American Meteorological Society, 2011, 92, 141-156.	3.3	125
12	The Origin, Pathway, and Destination of NiÃ±o-3 Water Estimated by a Simulated Passive Tracer and Its Adjoint. Journal of Physical Oceanography, 2004, 34, 582-604.	1.7	123
13	Assimilation of TOPEX/Poseidon altimeter data into a global ocean circulation model: How good are the results?. Journal of Geophysical Research, 1999, 104, 25647-25665.	3.3	96
14	Recent Earth Oblateness Variations: Unraveling Climate and Postglacial Rebound Effects. Science, 2002, 298, 1975-1977.	12.6	93
15	Interannual-to-Decadal Variations of Tropicalâ€“Subtropical Exchange in the Pacific Ocean: Boundary versus Interior Pycnocline Transports. Journal of Climate, 2003, 16, 4022-4042.	3.2	90
16	Interruption of two decades of Jakobshavn Isbrae acceleration and thinning as regional ocean cools. Nature Geoscience, 2019, 12, 277-283.	12.9	87
17	Temperature Advection: Internal versus External Processes. Journal of Physical Oceanography, 2004, 34, 1936-1944.	1.7	86
18	Mechanisms underlying recent decadal changes in subpolar <scp>N</scp>orth <scp>A</scp>tlantic <scp>O</scp>cean heat content. Journal of Geophysical Research: Oceans, 2017, 122, 7181-7197.	2.6	83

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19	Atmospheric and oceanic excitation of length-of-day variations during 1980-2000. Journal of Geophysical Research, 2004, 109, .	3.3	82
20	Ocean Data Assimilation Systems for GODAE. Oceanography, 2009, 22, 96-109.	1.0	81
21	Seasonal and interannual global surface mass variations from multisatellite geodetic data. Journal of Geophysical Research, 2006, 111, .	3.3	79
22	Mechanisms Controlling the Interannual Variation of Mixed Layer Temperature Averaged over the NiÃ±o-3 Region. Journal of Climate, 2007, 20, 3822-3843.	3.2	78
23	Oceans Melting Greenland: Early Results from NASAâ€™s Ocean-Ice Mission in Greenland. , 2016, 29, 72-83.		75
24	Assimilation of Sea Surface Topography into an Ocean Circulation Model Using a Steady-State Smoother. Journal of Physical Oceanography, 1993, 23, 1831-1855.	1.7	71
25	A Near-Uniform Basin-Wide Sea Level Fluctuation of the Mediterranean Sea. Journal of Physical Oceanography, 2007, 37, 338-358.	1.7	69
26	Efficient representation of the North Atlantic hydrographic and chemical distributions. Progress in Oceanography, 1991, 27, 111-195.	3.2	65
27	Modeling the high-frequency barotropic response of the ocean to atmospheric disturbances: Sensitivity to forcing, topography, and friction. Journal of Geophysical Research, 2001, 106, 30987-30995.	3.3	62
28	Fitting Dynamic Models to the Geosat Sea Level Observations in the Tropical Pacific Ocean. Part II: A Linear, Wind-driven Model. Journal of Physical Oceanography, 1993, 23, 2162-2181.	1.7	60
29	Assimilation of TOPEX sea level measurements with a reduced-gravity, shallow water model of the tropical Pacific Ocean. Journal of Geophysical Research, 1995, 100, 25027.	3.3	58
30	What governs the North Atlantic salinity maximum in a global GCM?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	58
31	The Closure of the Ocean Mixed Layer Temperature Budget Using Level-Coordinate Model Fields. Journal of Atmospheric and Oceanic Technology, 2006, 23, 840-853.	1.3	55
32	Sea Level and the Role of Coastal Trapped Waves in Mediating the Influence of the Open Ocean on the Coast. Surveys in Geophysics, 2019, 40, 1467-1492.	4.6	55
33	Record warming in the South Pacific and western Antarctica associated with the strong centralâ€Pacific El NiÃ±o in 2009â€“10. Geophysical Research Letters, 2010, 37, .	4.0	53
34	A near-uniform fluctuation of ocean bottom pressure and sea level across the deep ocean basins of the Arctic Ocean and the Nordic Seas. Progress in Oceanography, 2015, 134, 152-172.	3.2	52
35	Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. Climate Dynamics, 2017, 49, 753-773.	3.8	52
36	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. Frontiers in Marine Science, 2019, 6, .	2.5	51

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37	Steric sea level variability (1993â€“2010) in an ensemble of ocean reanalyses and objective analyses. Climate Dynamics, 2017, 49, 709-729.	3.8	48
38	Antarctic Circumpolar Current Transport Variability during 2003â€“05 from GRACE. Journal of Physical Oceanography, 2007, 37, 230-244.	1.7	47
39	Atmospheric and oceanic excitation of decadal-scale Earth orientation variations. Journal of Geophysical Research, 2005, 110, .	3.3	46
40	Merging tsunamis of the 2011 Tohokuâ€Oki earthquake detected over the open ocean. Geophysical Research Letters, 2012, 39, .	4.0	46
41	Origin and Pathway of Equatorial 13Â°C Water in the Pacific Identified by a Simulated Passive Tracer and Its Adjoint*. Journal of Physical Oceanography, 2009, 39, 1836-1853.	1.7	44
42	Atlantic to Mediterranean Sea Level Difference Driven by Winds near Gibraltar Strait. Journal of Physical Oceanography, 2007, 37, 359-376.	1.7	42
43	Formation of salinity maximum water and its contribution to the overturning circulation in the North Atlantic as revealed by a global general circulation model. Journal of Geophysical Research: Oceans, 2013, 118, 1982-1994.	2.6	40
44	Spinâ€Up of the Southern Hemisphere Super Gyre. Journal of Geophysical Research: Oceans, 2019, 124, 154-170.	2.6	39
45	Consistency and fidelity of Indonesian-throughflow total volume transport estimated by 14 ocean data assimilation products. Dynamics of Atmospheres and Oceans, 2010, 50, 201-223.	1.8	35
46	Subduction of South Pacific waters. Geophysical Research Letters, 2008, 35, .	4.0	34
47	The hydrography of the North Atlantic in the early 1980s. An atlas. Progress in Oceanography, 1991, 27, 1-110.	3.2	28
48	Origins of heat and freshwater anomalies underlying regional decadal sea level trends. Geophysical Research Letters, 2013, 40, 563-567.	4.0	28
49	A Dynamically Consistent, Multivariable Ocean Climatology. Bulletin of the American Meteorological Society, 2018, 99, 2107-2128.	3.3	28
50	The 1997-1999 abrupt change of the upper ocean temperature in the north central Pacific. Geophysical Research Letters, 2004, 31, .	4.0	27
51	Putting It All Together: Adding Value to the Global Ocean and Climate Observing Systems With Complete Self-Consistent Ocean State and Parameter Estimates. Frontiers in Marine Science, 2019, 6, .	2.5	23
52	A non-isostatic global sea level response to barometric pressure near 5 days. Geophysical Research Letters, 2001, 28, 2441-2444.	4.0	22
53	Chapter 5 Data Assimilation by Models. International Geophysics, 2001, , 237-xvii.	0.6	22
54	Sea Surface Salinity as a Proxy for Arctic Ocean Freshwater Changes. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016110.	2.6	22

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55	Depth-dependent temperature change contributions to global mean thermosteric sea level rise from 1960 to 2010. Global and Planetary Change, 2013, 101, 113-118.	3.5	21
56	Estimating satellite salinity errors for assimilation of Aquarius and SMOS data into climate models. Journal of Geophysical Research: Oceans, 2014, 119, 4732-4744.	2.6	20
57	Assimilation of TOPEX/POSEIDON Altimeter Data with a Reduced Gravity Model of the Japan Sea. Journal of Oceanography, 1999, 55, 53-64.	1.7	17
58	Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. Climate Dynamics, 2017, 49, 891-907.	3.8	16
59	Vertical Structure of Ocean Pressure Variations with Application to Satellite-Gravimetric Observations. Journal of Atmospheric and Oceanic Technology, 2015, 32, 603-613.	1.3	15
60	Numerical simulation and satellite altimeter data assimilation of the Japan Sea circulation. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 1443-1463.	1.4	14
61	Southern Ocean mass variation studies using GRACE and satellite altimetry. Earth, Planets and Space, 2008, 60, 477-485.	2.5	12
62	What Is Data Assimilation Really Solving, and How Is the Calculation Actually Done?. , 2006, , 317-342.		12
63	Local and Remote Forcing of Interannual Seaâ€Level Variability at Nantucket Island. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	11
64	Mapping and pseudoinverse algorithms for ocean data assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 43-51.	6.3	9
65	Eastern equatorial Pacific Ocean T-S variations with El NiÃ±o. Geophysical Research Letters, 2004, 31, .	4.0	8
66	Effects of mixing on the subduction of South Pacific waters identified by a simulated passive tracer and its adjoint. Dynamics of Atmospheres and Oceans, 2011, 51, 45-54.	1.8	8
67	Ocean angular momentum from a recent global state estimate, with assessment of uncertainties. Geophysical Journal International, 2019, 216, 584-597.	2.4	8
68	Causal Mechanisms of Sea-level and Freshwater Content Change in the Beaufort Sea. Journal of Physical Oceanography, 2021, , .	1.7	8
69	Circulation about the Mediterranean Tongue: An analysis of an EOF-based model ocean. Progress in Oceanography, 1991, 27, 197-224.	3.2	7
70	On the cause of eastern equatorial Pacific Ocean T-S variations associated with El NiÃ±o. Geophysical Research Letters, 2004, 31, .	4.0	6
71	A near uniform basinâ€wide sea level fluctuation over the Japan/East Sea: A semienclosed sea with multiple straits. Journal of Geophysical Research, 2008, 113, .	3.3	6
72	Kamifusen, the self-inflating Japanese paper balloon. Physics Today, 2017, 70, 78-79.	0.3	6

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73	Meridional circulation and mixing associated with the decay of warm-core ring 82B. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, S45-S65.	1.5	5
74	Variability of Southern Ocean Transports. Journal of Physical Oceanography, 2018, 48, 2667-2688.	1.7	4
75	Intraseasonal Sea Level Variability in the Persian Gulf. Journal of Physical Oceanography, 2021, 51, 1687-1704.	1.7	4
76	Influence of Nonseasonal River Discharge on Sea Surface Salinity and Height. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
77	A case study of the effects of errors in satellite altimetry on data assimilation. Elsevier Oceanography Series, 1996, , 77-96.	0.1	3
78	A Methodology for the construction of a hierarchy of kalman filters for nonlinear primitive equation models. Elsevier Oceanography Series, 1996, 61, 297-317.	0.1	3
79	The Obduction of Equatorial 13Â°C Water in the Pacific Identified by a Simulated Passive Tracer*. Journal of Physical Oceanography, 2010, 40, 2282-2297.	1.7	3