

Arthur J Miller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131
papers

6,277
citations

39
h-index

77
g-index

139
ext. papers

7,095
ext. citations

3.5
avg, IF

5.65
L-index

#	Paper	IF	Citations
131	Physical-Ecological Response of the California Current System to ENSO events in ROMS-NEMURO. <i>Ocean Dynamics</i> , 2022 , 72, 21-36	2.3	0
130	The Role of AirSea Interactions in Atmospheric Rivers: Case Studies Using the SKRIPS Regional Coupled Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD032885	4.4	2
129	The Inner-Shelf Dynamics Experiment. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E1033-E1063	5.1	5
128	Oceanic eddy-induced modifications to air-sea heat and CO fluxes in the Brazil-Malvinas Confluence. <i>Scientific Reports</i> , 2021 , 11, 10648	4.9	3
127	Impacts of aerosols produced by biomass burning on the stratocumulus-to-cumulus transition in the equatorial Atlantic. <i>Atmospheric Science Letters</i> , 2021 , 22, e1025	2.4	2
126	Estimating Southern Ocean Storm Positions With Seismic Observations. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015898	3.3	3
125	Seasonal-to-interannual prediction of North American coastal marine ecosystems: Forecast methods, mechanisms of predictability, and priority developments. <i>Progress in Oceanography</i> , 2020 , 183, 102307	3.8	28
124	Physical drivers of the summer 2019 North Pacific marine heatwave. <i>Nature Communications</i> , 2020 , 11, 1903	17.4	46
123	Estimation and prediction of the upper ocean circulation in the Bay of Bengal. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020 , 172, 104721	2.3	1
122	Observed monsoon precipitation suppression caused by anomalous interhemispheric aerosol transport. <i>Climate Dynamics</i> , 2020 , 54, 1077-1091	4.2	4
121	Tropical climate variability in the Community Earth System Model: Data Assimilation Research Testbed. <i>Climate Dynamics</i> , 2020 , 54, 793-806	4.2	2
120	Impacts of Shifting Subtropical Highs on the California Current and Canary Current Systems. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088996	4.9	2
119	A Reliability Budget Analysis of CESM-DART. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001678	7.1	
118	The Pacific Meridional Mode over the last millennium. <i>Climate Dynamics</i> , 2019 , 53, 3547-3560	4.2	7
117	The importance of environment and life stage on interpretation of silky shark relative abundance indices for the equatorial Pacific Ocean. <i>Fisheries Oceanography</i> , 2019 , 28, 43-53	2.4	4
116	Coastal Semidiurnal Internal Tidal Incoherence in the Santa Maria Basin, California: Observations and Model Simulations. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 5158-5179	3.3	9
115	Predictability of US West Coast Ocean Temperatures is not solely due to ENSO. <i>Scientific Reports</i> , 2019 , 9, 10993	4.9	17

114	The North Pacific Pacemaker Effect on Historical ENSO and Its Mechanisms. <i>Journal of Climate</i> , 2019 , 32, 7643-7661	4.4	23
113	Composite physicalBiological El Niño and La Niña conditions in the California Current System in CESM1-POP2-BEC. <i>Ocean Modelling</i> , 2019 , 142, 101439	3	3
112	SKRIPS v1.0: a regional coupled ocean-atmosphere modeling framework (MITgcmWRF) using ESMF/NUOPC, description and preliminary results for the Red Sea. <i>Geoscientific Model Development</i> , 2019 , 12, 4221-4244	6.3	5
111	Identifying Ocean Swell Generation Events from Ross Ice Shelf Seismic Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019 , 36, 2171-2189	2	6
110	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	18
109	Remote and local influences in forecasting Pacific SST: a linear inverse model and a multimodel ensemble study. <i>Climate Dynamics</i> , 2019 , 52, 3183-3201	4.2	13
108	The North Pacific Gyre Oscillation and Mechanisms of Its Decadal Variability in CMIP5 Models. <i>Journal of Climate</i> , 2018 , 31, 2487-2509	4.4	3
107	The interplay of internal and forced modes of Hadley Cell expansion: lessons from the global warming hiatus. <i>Climate Dynamics</i> , 2018 , 51, 305-319	4.2	35
106	The role of subduction and gravitational sinking in particle export, carbon sequestration, and the remineralization length scale in the California Current Ecosystem. <i>Limnology and Oceanography</i> , 2018 , 63, 363-383	4.8	23
105	Satellite Observations of Enhanced Chlorophyll Variability in the Southern California Bight. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 7550-7563	3.3	6
104	Mesoscale ocean fronts enhance carbon export due to gravitational sinking and subduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1252-1257	11.5	85
103	On the Response of the Aleutian Low to Greenhouse Warming. <i>Journal of Climate</i> , 2017 , 30, 3907-3925	4.4	38
102	Coupled ocean-atmosphere forecasting at short and medium time scales. <i>Journal of Marine Research</i> , 2017 , 75, 877-921	1.5	11
101	Coupled ocean-atmosphere modeling and predictions. <i>Journal of Marine Research</i> , 2017 , 75, 361-402	1.5	8
100	Storm surge along the Pacific coast of North America. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 441-457	3.3	17
99	WES feedback and the Atlantic Meridional Mode: observations and CMIP5 comparisons. <i>Climate Dynamics</i> , 2017 , 49, 1665-1679	4.2	49
98	Interannual modulation of subtropical Atlantic boreal summer dust variability by ENSO. <i>Climate Dynamics</i> , 2016 , 46, 585-599	4.2	19
97	Air-sea interaction at the Southern Brazilian Continental Shelf: In situ observations. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 6671-6695	3.3	18

96	Impacts of ENSO events on cloud radiative effects in preindustrial conditions: Changes in cloud fraction and their dependence on interactive aerosol emissions and concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6321-6335	4.4	15
95	Eddy-Wind Interaction in the California Current System: Dynamics and Impacts. <i>Journal of Physical Oceanography</i> , 2016 , 46, 439-459	2.4	68
94	The Pacific Decadal Oscillation, Revisited. <i>Journal of Climate</i> , 2016 , 29, 4399-4427	4.4	645
93	Wind relaxation and a coastal buoyant plume north of Pt. Conception, CA: Observations, simulations, and scalings. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 7455-7475	3.3	15
92	Impacts of the East Asian Monsoon on springtime dust concentrations over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8137-8152	4.4	12
91	Anticipated Effects of Climate Change on Coastal Upwelling Ecosystems. <i>Current Climate Change Reports</i> , 2015 , 1, 85-93	9	200
90	The physical oceanographic environment during the CCE-LTER Years: Changes in climate and concepts. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 6-17	2.3	9
89	The skill of atmospheric linear inverse models in hindcasting the Madden-Julian Oscillation. <i>Climate Dynamics</i> , 2015 , 44, 897-906	4.2	21
88	Seasonality of tropical Pacific decadal trends associated with the 21st century global warming hiatus. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 6782-6798	3.3	19
87	Source location impact on relative tsunami strength along the U.S. West Coast. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 4945-4961	3.3	2
86	Interannual to decadal climate variability of sea salt aerosols in the coupled climate model CESM1.0. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1502-1519	4.4	13
85	Processes driving sea ice variability in the Bering Sea in an eddying ocean/sea ice model: anomalies from the mean seasonal cycle. <i>Ocean Dynamics</i> , 2014 , 64, 1693-1717	2.3	12
84	Processes driving sea ice variability in the Bering Sea in an eddying ocean/sea ice model: Mean seasonal cycle. <i>Ocean Modelling</i> , 2014 , 84, 51-66	3	9
83	Semidirect dynamical and radiative effect of North African dust transport on lower tropospheric clouds over the subtropical North Atlantic in CESM 1.0. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8284-8303	4.4	4
82	Coupled Impacts of the Diurnal Cycle of Sea Surface Temperature on the Madden-Julian Oscillation. <i>Journal of Climate</i> , 2014 , 27, 8422-8443	4.4	76
81	The MJO and global warming: a study in CCSM4. <i>Climate Dynamics</i> , 2014 , 42, 2019-2031	4.2	31
80	Western U.S. Extreme Precipitation Events and Their Relation to ENSO and PDO in CCSM4. <i>Journal of Climate</i> , 2013 , 26, 4231-4243	4.4	51
79	Regional coupled ocean-atmosphere downscaling in the Southeast Pacific: impacts on upwelling, mesoscale air-sea fluxes, and ocean eddies. <i>Ocean Dynamics</i> , 2013 , 63, 463-488	2.3	20

78	Isolating mesoscale coupled ocean-atmosphere interactions in the Kuroshio Extension region. <i>Dynamics of Atmospheres and Oceans</i> , 2013 , 63, 60-78	1.9	56
77	A data assimilative perspective of oceanic mesoscale eddy evolution during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3329-3344	6.8	4
76	Multidecadal regional sea level shifts in the Pacific over 1958-2008. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 7024-7035	3.3	44
75	Ecological Transitions in a Coastal Upwelling Ecosystem. <i>Oceanography</i> , 2013 , 26, 210-219	2.3	30
74	Modeling Physical-Biological Responses to Climate Change in the California Current System. <i>Oceanography</i> , 2013 , 26, 26-33	2.3	14
73	Coral reef habitat response to climate change scenarios. <i>PLoS ONE</i> , 2013 , 8, e82404	3.7	38
72	Application of a data-assimilation model to variability of Pacific sardine spawning and survivor habitats with ENSO in the California Current System. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		33
71	Understanding North Pacific sea level trends. <i>Eos</i> , 2012 , 93, 249-251	1.5	4
70	Climatic control of upwelling variability along the western North-American coast. <i>PLoS ONE</i> , 2012 , 7, e30436	3.7	34
69	Linear versus Nonlinear Filtering with Scale-Selective Corrections for Balanced Dynamics in a Simple Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 3405-3419	2.1	9
68	Classification of remote Pacific coral reefs by physical oceanographic environment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		15
67	Dynamical suppression of sea level rise along the Pacific coast of North America: Indications for imminent acceleration. <i>Journal of Geophysical Research</i> , 2011 , 116,		124
66	Changes in upwelling and its water sources in the California Current System driven by different wind forcing. <i>Dynamics of Atmospheres and Oceans</i> , 2011 , 52, 170-191	1.9	29
65	The North Pacific Climate Transitions of the Winters of 1976/77 and 1988/89. <i>Journal of Climate</i> , 2011 , 24, 1170-1183	4.4	61
64	The Madden-Julian Oscillation in CCSM4. <i>Journal of Climate</i> , 2011 , 24, 6261-6282	4.4	56
63	Climate controls on marine ecosystems and fish populations. <i>Journal of Marine Systems</i> , 2010 , 79, 305-315	15	102
62	Ocean ecosystem responses to future global change scenarios: a way forward 2010 , 287-322		15
61	Seasonal Effects of Indian Ocean Freshwater Forcing in a Regional Coupled Model*. <i>Journal of Climate</i> , 2009 , 22, 6577-6596	4.4	68

60	An Adjoint Sensitivity Analysis of the Southern California Current Circulation and Ecosystem. <i>Journal of Physical Oceanography</i> , 2009 , 39, 702-720	2.4	45
59	Coastal phytoplankton blooms in the Southern California Bight. <i>Progress in Oceanography</i> , 2009 , 82, 137-147	3.1	76
58	Low-frequency variability in the Gulf of Alaska from coarse and eddy-permitting ocean models. <i>Journal of Geophysical Research</i> , 2009 , 114,		3
57	The role of tidal forcing in the Gulf of Alaska circulation. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	4
56	Ocean Environment and Fisheries. <i>Eos</i> , 2008 , 89, 228-228	1.5	
55	Modeling of mesoscale coupled ocean-atmosphere interaction and its feedback to ocean in the western Arabian Sea. <i>Ocean Modelling</i> , 2008 , 25, 120-131	3	32
54	The Inverse Ocean Modeling System. Part II: Applications. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008 , 25, 1623-1637	2	18
53	Precipitation from African Easterly Waves in a Coupled Model of the Tropical Atlantic. <i>Journal of Climate</i> , 2008 , 21, 1417-1431	4.4	18
52	Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the Regional Ocean Modeling System. <i>Journal of Computational Physics</i> , 2008 , 227, 3595-3624	4.1	797
51	Barotropic Rossby wave radiation from a model Gulf Stream. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.1	2
50	Bottom-up forcing and the decline of Steller sea lions (<i>Eumetopias jubatus</i>) in Alaska: assessing the ocean climate hypothesis. <i>Fisheries Oceanography</i> , 2007 , 16, 46-67	2.4	100
49	Did the Thermocline Deepen in the California Current after the 1976/77 Climate Regime Shift?. <i>Journal of Physical Oceanography</i> , 2007 , 37, 1733-1739	2.4	39
48	Feedback of Tropical Instability-Wave-Induced Atmospheric Variability onto the Ocean. <i>Journal of Climate</i> , 2007 , 20, 5842-5855	4.4	51
47	The Scripps Coupled Ocean-Atmosphere Regional (SCOAR) Model, with Applications in the Eastern Pacific Sector. <i>Journal of Climate</i> , 2007 , 20, 381-402	4.4	93
46	Weak and strong constraint data assimilation in the inverse Regional Ocean Modeling System (ROMS): Development and application for a baroclinic coastal upwelling system. <i>Ocean Modelling</i> , 2007 , 16, 160-187	3	66
45	Chapter 2 Global Change and Oceanic Primary Productivity: Effects of Ocean-Atmosphere-Biological Feedbacks. <i>Elsevier Oceanography Series</i> , 2007 , 27-477		1
44	Modeling and Data Assimilation. <i>Remote Sensing and Digital Image Processing</i> , 2007 , 229-257	0.2	1
43	Interdecadal variability and climate change in the eastern tropical Pacific: A review. <i>Progress in Oceanography</i> , 2006 , 69, 267-284	3.8	40

42	Effect of ocean mesoscale variability on the mean state of tropical Atlantic climate. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	49
41	Spatial heterogeneity of sea surface temperature trends in the Gulf of Alaska. <i>Atmosphere - Ocean</i> , 2005 , 43, 241-247	1.5	10
40	Interdecadal changes in mesoscale eddy variance in the Gulf of Alaska circulation: Possible implications for the Steller sea lion decline. <i>Atmosphere - Ocean</i> , 2005 , 43, 231-240	1.5	18
39	Low-Frequency Pycnocline Variability in the Northeast Pacific. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1403-1420	2.4	30
38	The Warming of the California Current System: Dynamics and Ecosystem Implications. <i>Journal of Physical Oceanography</i> , 2005 , 35, 336-362	2.4	144
37	Pacific Ocean forecasts. <i>Journal of Marine Systems</i> , 2004 , 45, 75-90	2.7	5
36	Decadal-Scale Climate and Ecosystem Interactions in the North Pacific Ocean. <i>Journal of Oceanography</i> , 2004 , 60, 163-188	1.9	76
35	Modelling observed California Current mesoscale eddies and the ecosystem response. <i>International Journal of Remote Sensing</i> , 2004 , 25, 1307-1312	3.1	33
34	A comprehensive ocean prediction and analysis system based on the tangent linear and adjoint of a regional ocean model. <i>Ocean Modelling</i> , 2004 , 7, 227-258	3	143
33	Potential Feedbacks Between Pacific Ocean Ecosystems and Interdecadal Climate Variations. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 617-634	6.1	45
32	North Pacific Intermediate Water response to a modern climate warming shift. <i>Journal of Geophysical Research</i> , 2003 , 108,		13
31	The biological response to the 1977 regime shift in the California Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2567-2582	2.3	124
30	Anatomy of North Pacific Decadal Variability. <i>Journal of Climate</i> , 2002 , 15, 586-605	4.4	184
29	Predicting Western North Pacific Ocean Climate. <i>Journal of Climate</i> , 2001 , 14, 3997-4002	4.4	108
28	Pacific Ocean wind stress and surface heat flux anomalies from NCEP reanalysis and observations: Cross-statistics and ocean model responses. <i>Journal of Geophysical Research</i> , 2001 , 106, 22249-22265		20
27	Interdecadal climate regime dynamics in the North Pacific Ocean: theories, observations and ecosystem impacts. <i>Progress in Oceanography</i> , 2000 , 47, 355-379	3.8	178
26	Subduction of Decadal North Pacific Temperature Anomalies: Observations and Dynamics. <i>Journal of Physical Oceanography</i> , 1999 , 29, 1056-1070	2.4	192
25	Forecasts from fits of frontal fluctuations. <i>Dynamics of Atmospheres and Oceans</i> , 1999 , 29, 305-333	1.9	9

24	Pacific thermocline bridge revisited. <i>Geophysical Research Letters</i> , 1999 , 26, 1329-1332	4.9	65
23	Simulation of heat storages and associated heat budgets in the Pacific Ocean: 1. El Niño-Southern Oscillation timescale. <i>Journal of Geophysical Research</i> , 1998 , 103, 27603-27620		11
22	Simulation of heat storages and associated heat budgets in the Pacific Ocean: 2. Interdecadal timescale. <i>Journal of Geophysical Research</i> , 1998 , 103, 27621-27635		15
21	A Westward-Intensified Decadal Change in the North Pacific Thermocline and Gyre-Scale Circulation. <i>Journal of Climate</i> , 1998 , 11, 3112-3127	4.4	162
20	North Pacific Thermocline Variations on ENSO Timescales. <i>Journal of Physical Oceanography</i> , 1997 , 27, 2023-2039	2.4	45
19	Real-Time Operational Forecasting on Shipboard of the Iceland-Faeroe Frontal Variability. <i>Bulletin of the American Meteorological Society</i> , 1996 , 77, 243-259	6.1	17
18	Real-time regional forecasting. <i>Elsevier Oceanography Series</i> , 1996 , 377-410		18
17	A Topographic Rossby Mode Resonance over the Iceland-Faeroe Ridge. <i>Journal of Physical Oceanography</i> , 1996 , 26, 2735-2747	2.4	16
16	The Nature of Predictability Enhancement in a Low-Order Ocean-Atmosphere Model. <i>Journal of Climate</i> , 1996 , 9, 2167-2172	4.4	4
15	Quantitative skill of quasi-geostrophic forecasts of a baroclinically unstable Iceland-Faeroe Front. <i>Journal of Geophysical Research</i> , 1995 , 100, 10833		8
14	Quasigeostrophic Forecasting and Physical Processes of Iceland-Faeroe Frontal Variability. <i>Journal of Physical Oceanography</i> , 1995 , 25, 1273-1295	2.4	13
13	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies. <i>Climate Dynamics</i> , 1994 , 9, 287-302	4.2	189
12	The 1976-77 Climate Shift of the Pacific Ocean. <i>Oceanography</i> , 1994 , 7, 21-26	2.3	349
11	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies 1994 , 9, 287		8
10	A Comparison of Some Tropical Ocean Models: Hindcast Skill and El Niño Evolution. <i>Journal of Physical Oceanography</i> , 1993 , 23, 1567-1591	2.4	19
9	The Fortnightly and Monthly Tides: Resonant Rossby Waves or Nearly Equilibrium Gravity Waves?. <i>Journal of Physical Oceanography</i> , 1993 , 23, 879-897	2.4	30
8	Large-Scale Ocean-Atmosphere Interactions in a Simplified Coupled Model of the Midlatitude Wintertime Circulation. <i>Journals of the Atmospheric Sciences</i> , 1992 , 49, 273-286	2.1	9
7	On Forced Barotropic Vorticity Oscillations. <i>Journal of Physical Oceanography</i> , 1992 , 22, 808-810	2.4	4

6	Tropical Pacific Ocean response to observed winds in a layered general circulation model. <i>Journal of Geophysical Research</i> , 1992 , 97, 7317		5
5	A Simplified Coupled Model of Extended-Range Predictability. <i>Journal of Climate</i> , 1990 , 3, 523-542	4.4	9
4	On the barotropic planetary oscillations of the Pacific. <i>Journal of Marine Research</i> , 1989 , 47, 569-594	1.5	11
3	Open-ocean response and normal mode excitation in an eddy-resolving general circulation model. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1987 , 37, 253-278	1.4	14
2	Nondivergent Planetary Oscillations in Midlatitude Ocean Basins with Continental Shelves. <i>Journal of Physical Oceanography</i> , 1986 , 16, 1914-1928	2.4	11
1	The effect of Oceanic South Atlantic Convergence Zone episodes on regional SST anomalies: the roles of heat fluxes and upper-ocean dynamics. <i>Climate Dynamics</i> , 1	4.2	1