

Janet Sprintall

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.

127
papers

6,222
citations

40
h-index

76
g-index

140
ext. papers

7,188
ext. citations

4.8
avg, IF

5.83
L-index

#	Paper	IF	Citations
127	The Oceanic Barrier Layer in the Eastern Indian Ocean as a Predictor for Rainfall Over Indonesia and Australia. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094519	4.9	1
126	Large-scale state and evolution of the atmosphere and ocean during PISTON 2018. <i>Journal of Climate</i> , 2021 , 1-59	4.4	1
125	Upper Ocean Stratification in the Eastern Pacific During the SPURS-2 Field Campaign. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016591	3.3	5
124	What Role Does the Barrier Layer Play During Extreme El Niño Events?. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC017001	3.3	1
123	Deep pacific circulation: New insights on pathways through the Solomon Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021 , 171, 103510	2.5	0
122	Heat and freshwater changes in the Indian Ocean region. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 525-541	30.2	1
121	Seasonality of the Somali Current/Undercurrent system. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2021 , 191-192, 104953	2.3	1
120	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021 , 374, eaay9165	33.3	24
119	Deep-reaching acceleration of global mean ocean circulation over the past two decades. <i>Science Advances</i> , 2020 , 6, eaax7727	14.3	32
118	Seasonality and Formation of Barrier Layers and Associated Temperature Inversions in the Eastern Tropical North Pacific. <i>Journal of Physical Oceanography</i> , 2020 , 50, 791-808	2.4	9
117	Best Practice Strategies for Process Studies Designed to Improve Climate Modeling. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1842-E1850	6.1	0
116	Upper-Ocean Eddy Heat Flux across the Antarctic Circumpolar Current in Drake Passage from Observations: Time-Mean and Seasonal Variability. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2507-2527	2.4	0
115	Barrier Layers in a High-Resolution Model in the Eastern Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016643	3.3	5
114	Observed Triple Mode of Salinity Variability in the Thermocline of Tropical Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016210	3.3	2
113	Review on observational studies of western tropical Pacific Ocean circulation and climate. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 906-929	1.5	5
112	ENSO Oceanic Teleconnections. <i>Geophysical Monograph Series</i> , 2020 , 337-359	1.1	7
111	The intermediate water in the Philippine Sea. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 1343-1353	1.5	2

110	Global Patterns of Submesoscale Surface Salinity Variability. <i>Journal of Physical Oceanography</i> , 2019 , 49, 1669-1685	2.4	11
109	The Observed Seasonal Cycle of Macronutrients in Drake Passage: Relationship to Fronts and Utility as a Model Metric. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 4763-4783	3.3	7
108	Maritime Continent water cycle regulates low-latitude chokepoint of global ocean circulation. <i>Nature Communications</i> , 2019 , 10, 2103	17.4	14
107	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. <i>Scientific Reports</i> , 2019 , 9, 7364	4.9	8
106	Detecting Change in the Indonesian Seas. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	27
105	Interannual Variability of the Sulawesi Sea Circulation Forced by Indo-Pacific Planetary Waves. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 1616-1633	3.3	10
104	Interannual to Decadal Variability of Upper-Ocean Salinity in the Southern Indian Ocean and the Role of the Indonesian Throughflow. <i>Journal of Climate</i> , 2019 , 32, 6403-6421	4.4	14
103	Tropical Pacific Observing System. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	41
102	Mooring and Seafloor Pressure End Point Measurements at the Southern Entrance of the Solomon Sea: Subseasonal to Interannual Flow Variability. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 5085-5104	3.3	3
101	Upper-Ocean Salinity Stratification During SPURS-2. <i>Oceanography</i> , 2019 , 32, 40-41	2.3	6
100	Moored Observations of Transport in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 8166-8192	3.3	6
99	Upper Ocean Vertical Structure 2019 , 97-104		2
98	Spatiotemporal Features of Intraseasonal Oceanic Variability in the Philippine Sea From Mooring Observations and Numerical Simulations. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 4874-4887	3.3	10
97	Abrupt Transitions in Submesoscale Structure in Southern Drake Passage: Glider Observations and Model Results. <i>Journal of Physical Oceanography</i> , 2018 , 48, 2011-2027	2.4	30
96	Process-Specific Contributions to Anomalous Java Mixed Layer Cooling During Positive IOD Events. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 4153-4176	3.3	14
95	Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification. <i>Geophysical Research Letters</i> , 2017 , 44, 1448-1456	4.9	39
94	Spatial patterns of mixing in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 4021-4039	3.3	8
93	Deep circulation driven by strong vertical mixing in the Timor Basin. <i>Ocean Dynamics</i> , 2017 , 67, 191-209	2.3	4

92	Contribution of topographically generated submesoscale turbulence to Southern Ocean overturning. <i>Nature Geoscience</i> , 2017 , 10, 840-845	18.3	28
91	Northern Arabian Sea Circulation-Autonomous Research (NASCar): A Research Initiative Based on Autonomous Sensors. <i>Oceanography</i> , 2017 , 30, 74-87	2.3	15
90	An undercurrent off the east coast of Sri Lanka. <i>Ocean Science</i> , 2017 , 13, 1035-1044	4	4
89	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. <i>Elementa</i> , 2017 , 5,	3.6	15
88	XBT Science: Assessment of Instrumental Biases and Errors. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 924-933	6.1	58
87	Anomalous Java cooling at the initiation of positive Indian Ocean Dipole events. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 5805-5824	3.3	29
86	Pathways and Water Mass Properties of the Thermocline and Intermediate Waters in the Solomon Sea. <i>Journal of Physical Oceanography</i> , 2016 , 46, 3031-3049	2.4	16
85	Interannual variability of the Indonesian Throughflow: The salinity effect. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 2596-2615	3.3	36
84	An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. <i>Geophysical Research Letters</i> , 2016 , 43, 10,846	4.9	18
83	Pacific western boundary currents and their roles in climate. <i>Nature</i> , 2015 , 522, 299-308	50.4	289
82	Estimates of net community production in the Southern Ocean determined from time series observations (2002-2011) of nutrients, dissolved inorganic carbon, and surface ocean pCO ₂ in Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 114, 49-63	2.3	32
81	Effects of Eddy Vorticity Forcing on the Mean State of the Kuroshio Extension. <i>Journal of Physical Oceanography</i> , 2015 , 45, 1356-1375	2.4	22
80	Water mass pathways to the North Atlantic oxygen minimum zone. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 3350-3372	3.3	32
79	Introduction to special section on Western Pacific Ocean Circulation and Climate. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 3175-3176	3.3	3
78	Basin-Wide Oceanographic Array Bridges the South Atlantic. <i>Eos</i> , 2014 , 95, 53-54	1.5	32
77	The Indonesian seas and their role in the coupled ocean-climate system. <i>Nature Geoscience</i> , 2014 , 7, 487-492	18.3	176
76	The Indonesian Throughflow response to Indo-Pacific climate variability. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 1161-1175	3.3	74
75	Subseasonal variations in salinity and barrier-layer thickness in the eastern equatorial Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 805-823	3.3	43

74	The Southwest Pacific Ocean circulation and climate experiment (SPICE). <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 7660-7686	3-3	75
73	Pacific-to-Indian Ocean connectivity: Tasman leakage, Indonesian Throughflow, and the role of ENSO. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 1365-1382	3-3	81
72	Eulerian and Lagrangian Isopycnal Eddy Diffusivities in the Southern Ocean of an Eddy Model. <i>Journal of Physical Oceanography</i> , 2014 , 44, 644-661	2-4	18
71	Drake Passage Oceanic pCO ₂ : Evaluating CMIP5 Coupled Carbon-Climate Models Using in situ Observations. <i>Journal of Climate</i> , 2014 , 27, 76-100	4-4	13
70	The diurnal salinity cycle in the tropics. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 5874-5890	3-3	14
69	Can Drake Passage Observations Match Ekman's Classic Theory?. <i>Journal of Physical Oceanography</i> , 2013 , 43, 1733-1740	2-4	17
68	Processes controlling upper-ocean heat content in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 4409-4423	3-3	7
67	Icebergs as unique Lagrangian ecosystems in polar seas. <i>Annual Review of Marine Science</i> , 2013 , 5, 269-87	5-4	36
66	An Assessment of Density-Based Finescale Methods for Estimating Diapycnal Diffusivity in the Southern Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 2647-2661	2	21
65	Interocean and Interbasin Exchanges. <i>International Geophysics</i> , 2013 , 103, 493-518		5
64	Shear at the Base of the Oceanic Mixed Layer Generated by Wind Shear Alignment. <i>Journal of Physical Oceanography</i> , 2013 , 43, 1798-1810	2-4	18
63	Intraseasonal Kelvin wave in Makassar Strait. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 2023-2034	3-4	43
62	Spatial Variation in Turbulent Heat Fluxes in Drake Passage. <i>Journal of Climate</i> , 2012 , 25, 1470-1488	4-4	9
61	Seasonal variability of upper ocean heat content in Drake Passage. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		14
60	Surface inflow into the South China Sea through the Luzon Strait in winter. <i>Chinese Journal of Oceanology and Limnology</i> , 2012 , 30, 163-168		3
59	In Situ Observations of Madden-Julian Oscillation Mixed Layer Dynamics in the Indian and Western Pacific Oceans. <i>Journal of Climate</i> , 2012 , 25, 2306-2328	4-4	47
58	Observations of exchange between the South China Sea and the Sulu Sea. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		22
57	High-Resolution Underway Upper Ocean and Surface Atmospheric Observations in Drake Passage: Synergistic Measurements for Climate Science. <i>Oceanography</i> , 2012 , 25, 70-81	2-3	17

56	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. <i>Reviews of Geophysics</i> , 2011 , 49,	23.1	101
55	Near-Surface Eddy Heat and Momentum Fluxes in the Antarctic Circumpolar Current in Drake Passage. <i>Journal of Physical Oceanography</i> , 2011 , 41, 1385-1407	2.4	15
54	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1336-1345	2.3	39
53	Circulation in the Philippine Archipelago Simulated by 1/12° and 1/25° Global HYCOM and EAS NCOM. <i>Oceanography</i> , 2011 , 24, 28-47	2.3	41
52	Regional Oceanography of the Philippine Archipelago. <i>Oceanography</i> , 2011 , 24, 14-27	2.3	40
51	Atmospheric and Oceanic Processes in the Vicinity of an Island Strait. <i>Oceanography</i> , 2011 , 24, 112-121	2.3	33
50	Transport and Dynamics of the Panay Sill Overflow in the Philippine Seas*. <i>Journal of Physical Oceanography</i> , 2010 , 40, 2679-2695	2.4	19
49	Assessing the potential of the Atmospheric Infrared Sounder (AIRS) surface temperature and specific humidity in turbulent heat flux estimates in the Southern Ocean. <i>Journal of Geophysical Research</i> , 2010 , 115,		12
48	Isopycnal diffusivities in the Antarctic Circumpolar Current inferred from Lagrangian floats in an eddying model. <i>Journal of Geophysical Research</i> , 2010 , 115,		39
47	The Indonesian throughflow during 2004-2006 as observed by the INSTANT program. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 50, 115-128	1.9	198
46	Pathways of intraseasonal variability in the Indonesian Throughflow region. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 50, 174-200	1.9	42
45	Validation of a regional Indonesian Seas model based on a comparison between model and INSTANT transports. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 50, 313-330	1.9	4
44	Direct evidence of the South Java Current system in Ombai Strait. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 50, 140-156	1.9	45
43	Simulated and observed circulation in the Indonesian Seas: 1/12° global HYCOM and the INSTANT observations. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 50, 275-300	1.9	71
42	Vertical Structure of Kelvin Waves in the Indonesian Throughflow Exit Passages. <i>Journal of Physical Oceanography</i> , 2010 , 40, 1965-1987	2.4	64
41	Anomalous Spiking in Spectra of XCTD Temperature Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 1157-1164	2	6
40	Wind-Driven Ageostrophic Transport in the North Equatorial Countercurrent of the Eastern Pacific at 95°W. <i>Journal of Physical Oceanography</i> , 2009 , 39, 2985-2998	2.4	3
39	Characteristics and variability of the Indonesian throughflow water at the outflow straits. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 1942-1954	2.5	54

38	Assessing eddy heat flux and its parameterization: A wavenumber perspective from a 1/10° ocean simulation. <i>Ocean Modelling</i> , 2009 , 29, 248-260	3	20
37	Direct estimates of the Indonesian Throughflow entering the Indian Ocean: 2004-2006. <i>Journal of Geophysical Research</i> , 2009 , 114,		268
36	Intraseasonal variability in the Makassar Strait thermocline. <i>Journal of Marine Research</i> , 2009 , 67, 757-777.5		37
35	Long-term trends and interannual variability of temperature in Drake Passage. <i>Progress in Oceanography</i> , 2008 , 77, 316-330	3.8	27
34	Southern Ocean mixed-layer depth from Argo float profiles. <i>Journal of Geophysical Research</i> , 2008 , 113,		231
33	Observations of the 2004 and 2006 Indian Ocean tsunamis from a pressure gauge array in Indonesia. <i>Journal of Geophysical Research</i> , 2008 , 113,		5
32	Expanding oxygen-minimum zones in the tropical oceans. <i>Science</i> , 2008 , 320, 655-8	33.3	987
31	Improving Estimates of the Antarctic Circumpolar Current Streamlines in Drake Passage. <i>Journal of Physical Oceanography</i> , 2008 , 38, 1000-1010	2.4	15
30	Observations and proxies of the surface layer throughflow in Lombok Strait. <i>Journal of Geophysical Research</i> , 2007 , 112,		22
29	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , 2007 , 37, 572-592	2.4	48
28	An Assessment of the Southern Ocean Mixed Layer Heat Budget. <i>Journal of Climate</i> , 2007 , 20, 4425-4442.4		84
27	Mean jets, mesoscale variability and eddy momentum fluxes in the surface layer of the Antarctic Circumpolar Current in Drake Passage. <i>Journal of Marine Research</i> , 2007 , 65, 27-58	1.5	42
26	Validation of the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) sea surface temperature in the Southern Ocean. <i>Journal of Geophysical Research</i> , 2006 , 111,		44
25	Location of the Antarctic Polar Front from AMSR-E Satellite Sea Surface Temperature Measurements. <i>Journal of Physical Oceanography</i> , 2006 , 36, 2075-2089	2.4	93
24	Remote origins of interannual variability in the Indonesian Throughflow region from data and a global Parallel Ocean Program simulation. <i>Journal of Geophysical Research</i> , 2005 , 110,		33
23	Deep expression of the Indonesian Throughflow: Indonesian Intermediate Water in the South Equatorial Current. <i>Journal of Geophysical Research</i> , 2005 , 110,		56
22	Ekman Mass and Heat Transport in the Indonesian Seas. <i>Oceanography</i> , 2005 , 18, 88-97	2.3	19
21	INSTANT: A new international array to measure the Indonesian Throughflow. <i>Eos</i> , 2004 , 85, 369	1.5	74

20	Seasonal to interannual upper-ocean variability in the Drake Passage. <i>Journal of Marine Research</i> , 2003 , 61, 27-57	1.5	80
19	Observed estimates of convergence in the Savu Sea, Indonesia. <i>Journal of Geophysical Research</i> , 2003 , 108, 1-1		255
18	Vertical structure of Indonesian throughflow in a large-scale model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2143-2161	2.3	32
17	Temperature and salinity variability in the exit passages of the Indonesian Throughflow. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2183-2204	2.3	46
16	Meddies and the Origin of the Leeuwin Current. <i>Journal of Physical Oceanography</i> , 2002 , 32, 2571-2588	2.4	26
15	Interaction between the Indonesian Seas and the Indian Ocean in Observations and Numerical Models*. <i>Journal of Physical Oceanography</i> , 2002 , 32, 1838-1854	2.4	46
14	The JADE and WOCE I10/IR6 Throughflow sections in the southeast Indian Ocean. Part 1: water mass distribution and variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002 , 49, 1341-1362	2.3	64
13	The JADE and WOCE I10/IR6 Throughflow sections in the southeast Indian Ocean. Part 2: velocity and transports. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002 , 49, 1363-1389	2.3	34
12	Velocity structure and transport of the Indonesian Throughflow in the major straits restricting flow into the Indian Ocean. <i>Journal of Geophysical Research</i> , 2001 , 106, 19527-19546		70
11	A semiannual Indian Ocean forced Kelvin wave observed in the Indonesian seas in May 1997. <i>Journal of Geophysical Research</i> , 2000 , 105, 17217-17230		128
10	Shallow throughflow variability in the outflow Straits of Indonesia. <i>Geophysical Research Letters</i> , 2000 , 27, 125-128	4.9	42
9	Intraseasonal variability and tides in Makassar Strait. <i>Geophysical Research Letters</i> , 2000 , 27, 1499-1502	4.9	32
8	Dynamics of the South Java Current in the Indo-Australian Basin. <i>Geophysical Research Letters</i> , 1999 , 26, 2493-2496	4.9	78
7	Characterizing the structure of the surface layer in the Pacific Ocean. <i>Journal of Geophysical Research</i> , 1999 , 104, 23297-23311		48
6	Addendum to Interaction of wetting fronts with an impervious surface \square <i>Transport in Porous Media</i> , 1995 , 21, 95-99	3.1	2
5	Superposition principle for short-term solutions of Richards' equation: Application to the interaction of wetting fronts with an impervious surface. <i>Transport in Porous Media</i> , 1994 , 17, 239-247	3.1	7
4	Interaction of wetting fronts with an impervious surface \square Longer time behaviour. <i>Transport in Porous Media</i> , 1994 , 17, 249-256	3.1	8
3	On the formation of central water and thermocline ventilation in the southern hemisphere. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993 , 40, 827-848	2.5	33

2	Evidence of the barrier layer in the surface layer of the tropics. <i>Journal of Geophysical Research</i> , 1992 , 97, 7305	461
1	Space and time scales for optimal interpolation of temperature in Tropical Pacific Ocean. <i>Progress in Oceanography</i> , 1991 , 28, 189-218	3.8 66