

# Janet Sprintall

## List of Publications by Citations

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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	Expanding oxygen-minimum zones in the tropical oceans. <i>Science</i> , <b>2008</b> , 320, 655-8	33.3	987
126	Evidence of the barrier layer in the surface layer of the tropics. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 7305		461
125	Pacific western boundary currents and their roles in climate. <i>Nature</i> , <b>2015</b> , 522, 299-308	50.4	289
124	Direct estimates of the Indonesian Throughflow entering the Indian Ocean: 2004-2006. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		268
123	Observed estimates of convergence in the Savu Sea, Indonesia. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, 1-1		255
122	Southern Ocean mixed-layer depth from Argo float profiles. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		231
121	The Indonesian throughflow during 2004-2006 as observed by the INSTANT program. <i>Dynamics of Atmospheres and Oceans</i> , <b>2010</b> , 50, 115-128	1.9	198
120	The Indonesian seas and their role in the coupled ocean-climate system. <i>Nature Geoscience</i> , <b>2014</b> , 7, 487-492	18.3	176
119	A semiannual Indian Ocean forced Kelvin wave observed in the Indonesian seas in May 1997. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 17217-17230		128
118	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. <i>Reviews of Geophysics</i> , <b>2011</b> , 49,	23.1	101
117	Location of the Antarctic Polar Front from AMSR-E Satellite Sea Surface Temperature Measurements. <i>Journal of Physical Oceanography</i> , <b>2006</b> , 36, 2075-2089	2.4	93
116	An Assessment of the Southern Ocean Mixed Layer Heat Budget. <i>Journal of Climate</i> , <b>2007</b> , 20, 4425-4444	4.4	84
115	Pacific-to-Indian Ocean connectivity: Tasman leakage, Indonesian Throughflow, and the role of ENSO. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 1365-1382	3.3	81
114	Seasonal to interannual upper-ocean variability in the Drake Passage. <i>Journal of Marine Research</i> , <b>2003</b> , 61, 27-57	1.5	80
113	Dynamics of the South Java Current in the Indo-Australian Basin. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 2493-2496	4.9	78
112	The Southwest Pacific Ocean circulation and climate experiment (SPICE). <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 7660-7686	3.3	75
111	The Indonesian Throughflow response to Indo-Pacific climate variability. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 1161-1175	3.3	74

110	INSTANT: A new international array to measure the Indonesian Throughflow. <i>Eos</i> , <b>2004</b> , 85, 369	1.5	74
109	Simulated and observed circulation in the Indonesian Seas: 1/12 $\sigma$ global HYCOM and the INSTANT observations. <i>Dynamics of Atmospheres and Oceans</i> , <b>2010</b> , 50, 275-300	1.9	71
108	Velocity structure and transport of the Indonesian Throughflow in the major straits restricting flow into the Indian Ocean. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 19527-19546		70
107	Space and time scales for optimal interpolation of temperature $\sigma$ Tropical Pacific Ocean. <i>Progress in Oceanography</i> , <b>1991</b> , 28, 189-218	3.8	66
106	Vertical Structure of Kelvin Waves in the Indonesian Throughflow Exit Passages. <i>Journal of Physical Oceanography</i> , <b>2010</b> , 40, 1965-1987	2.4	64
105	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> , <b>2002</b> , 49, 1341-1362	2.3	64
104	XBT Science: Assessment of Instrumental Biases and Errors. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, 924-933	6.1	58
103	Deep expression of the Indonesian Throughflow: Indonesian Intermediate Water in the South Equatorial Current. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		56
102	Characteristics and variability of the Indonesian throughflow water at the outflow straits. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2009</b> , 56, 1942-1954	2.5	54
101	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2007</b> , 37, 572-592	2.4	48
100	Characterizing the structure of the surface layer in the Pacific Ocean. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 23297-23311		48
99	In Situ Observations of Madden-Julian Oscillation Mixed Layer Dynamics in the Indian and Western Pacific Oceans. <i>Journal of Climate</i> , <b>2012</b> , 25, 2306-2328	4.4	47
98	Temperature and salinity variability in the exit passages of the Indonesian Throughflow. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2003</b> , 50, 2183-2204	2.3	46
97	Interaction between the Indonesian Seas and the Indian Ocean in Observations and Numerical Models*. <i>Journal of Physical Oceanography</i> , <b>2002</b> , 32, 1838-1854	2.4	46
96	Direct evidence of the South Java Current system in Ombai Strait. <i>Dynamics of Atmospheres and Oceans</i> , <b>2010</b> , 50, 140-156	1.9	45
95	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> , <b>2006</b> , 111,		44
94	Subseasonal variations in salinity and barrier-layer thickness in the eastern equatorial Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 805-823	3.3	43
93	Intraseasonal Kelvin wave in Makassar Strait. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 2023-2034		43

92	Pathways of intraseasonal variability in the Indonesian Throughflow region. <i>Dynamics of Atmospheres and Oceans</i> , <b>2010</b> , 50, 174-200	1.9	42
91	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> , <b>2007</b> , 65, 27-58	1.5	42
90	Shallow throughflow variability in the outflow Straits of Indonesia. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 125-128	4.9	42
89	Tropical Pacific Observing System. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	41
88	Circulation in the Philippine Archipelago Simulated by 1/12° and 1/25° Global HYCOM and EAS NCOM. <i>Oceanography</i> , <b>2011</b> , 24, 28-47	2.3	41
87	Regional Oceanography of the Philippine Archipelago. <i>Oceanography</i> , <b>2011</b> , 24, 14-27	2.3	40
86	Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1448-1456	4.9	39
85	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2011</b> , 58, 1336-1345	2.3	39
84	Isopycnal diffusivities in the Antarctic Circumpolar Current inferred from Lagrangian floats in an eddying model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		39
83	Intraseasonal variability in the Makassar Strait thermocline. <i>Journal of Marine Research</i> , <b>2009</b> , 67, 757-777.	1.5	37
82	Interannual variability of the Indonesian Throughflow: The salinity effect. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 2596-2615	3.3	36
81	Icebergs as unique Lagrangian ecosystems in polar seas. <i>Annual Review of Marine Science</i> , <b>2013</b> , 5, 269-287.	5.4	36
80	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> , <b>2002</b> , 49, 1363-1389	2.3	34
79	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> , <b>2005</b> , 110,		33
78	On the formation of central water and thermocline ventilation in the southern hemisphere. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1993</b> , 40, 827-848	2.5	33
77	Atmospheric and Oceanic Processes in the Vicinity of an Island Strait. <i>Oceanography</i> , <b>2011</b> , 24, 112-121	2.3	33
76	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 <sub>2</sub> in Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2015</b> , 114, 49-63	2.3	32
75	Water mass pathways to the North Atlantic oxygen minimum zone. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 3350-3372	3.3	32

74	Deep-reaching acceleration of global mean ocean circulation over the past two decades. <i>Science Advances</i> , <b>2020</b> , 6, eaax7727	14.3	32
73	Basin-Wide Oceanographic Array Bridges the South Atlantic. <i>Eos</i> , <b>2014</b> , 95, 53-54	1.5	32
72	Vertical structure of Indonesian throughflow in a large-scale model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2003</b> , 50, 2143-2161	2.3	32
71	Intraseasonal variability and tides in Makassar Strait. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 1499-1502	4.9	32
70	Abrupt Transitions in Submesoscale Structure in Southern Drake Passage: Glider Observations and Model Results. <i>Journal of Physical Oceanography</i> , <b>2018</b> , 48, 2011-2027	2.4	30
69	Anomalous Java cooling at the initiation of positive Indian Ocean Dipole events. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 5805-5824	3.3	29
68	Contribution of topographically generated submesoscale turbulence to Southern Ocean overturning. <i>Nature Geoscience</i> , <b>2017</b> , 10, 840-845	18.3	28
67	Detecting Change in the Indonesian Seas. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	27
66	Long-term trends and interannual variability of temperature in Drake Passage. <i>Progress in Oceanography</i> , <b>2008</b> , 77, 316-330	3.8	27
65	Meddies and the Origin of the Leeuwin Current. <i>Journal of Physical Oceanography</i> , <b>2002</b> , 32, 2571-2588	2.4	26
64	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , <b>2021</b> , 374, eaay9165	33.3	24
63	Effects of Eddy Vorticity Forcing on the Mean State of the Kuroshio Extension. <i>Journal of Physical Oceanography</i> , <b>2015</b> , 45, 1356-1375	2.4	22
62	Observations of exchange between the South China Sea and the Sulu Sea. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		22
61	Observations and proxies of the surface layer throughflow in Lombok Strait. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		22
60	An Assessment of Density-Based Finescale Methods for Estimating Diapycnal Diffusivity in the Southern Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2013</b> , 30, 2647-2661	2	21
59	Assessing eddy heat flux and its parameterization: A wavenumber perspective from a 1/10 <sup>o</sup> ocean simulation. <i>Ocean Modelling</i> , <b>2009</b> , 29, 248-260	3	20
58	Transport and Dynamics of the Panay Sill Overflow in the Philippine Seas*. <i>Journal of Physical Oceanography</i> , <b>2010</b> , 40, 2679-2695	2.4	19
57	Ekman Mass and Heat Transport in the Indonesian Seas. <i>Oceanography</i> , <b>2005</b> , 18, 88-97	2.3	19

56	Eulerian and Lagrangian Isopycnal Eddy Diffusivities in the Southern Ocean of an Eddy Model. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 644-661	2.4	18
55	Shear at the Base of the Oceanic Mixed Layer Generated by Wind Shear Alignment. <i>Journal of Physical Oceanography</i> , <b>2013</b> , 43, 1798-1810	2.4	18
54	An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10,846	4.9	18
53	Can Drake Passage Observations Match Ekman's Classic Theory?. <i>Journal of Physical Oceanography</i> , <b>2013</b> , 43, 1733-1740	2.4	17
52	High-Resolution Underway Upper Ocean and Surface Atmospheric Observations in Drake Passage: Synergistic Measurements for Climate Science. <i>Oceanography</i> , <b>2012</b> , 25, 70-81	2.3	17
51	Pathways and Water Mass Properties of the Thermocline and Intermediate Waters in the Solomon Sea. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 3031-3049	2.4	16
50	Northern Arabian Sea Circulation-Autonomous Research (NASCar): A Research Initiative Based on Autonomous Sensors. <i>Oceanography</i> , <b>2017</b> , 30, 74-87	2.3	15
49	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. <i>Elementa</i> , <b>2017</b> , 5,	3.6	15
48	Near-Surface Eddy Heat and Momentum Fluxes in the Antarctic Circumpolar Current in Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2011</b> , 41, 1385-1407	2.4	15
47	Improving Estimates of the Antarctic Circumpolar Current Streamlines in Drake Passage. <i>Journal of Physical Oceanography</i> , <b>2008</b> , 38, 1000-1010	2.4	15
46	Maritime Continent water cycle regulates low-latitude chokepoint of global ocean circulation. <i>Nature Communications</i> , <b>2019</b> , 10, 2103	17.4	14
45	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> , <b>2019</b> , 32, 6403-6421	4.4	14
44	The diurnal salinity cycle in the tropics. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 5874-5890	3.3	14
43	Seasonal variability of upper ocean heat content in Drake Passage. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		14
42	Process-Specific Contributions to Anomalous Java Mixed Layer Cooling During Positive IOD Events. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 4153-4176	3.3	14
41	Drake Passage Oceanic pCO <sub>2</sub> : Evaluating CMIP5 Coupled Carbon-Climate Models Using in situ Observations. <i>Journal of Climate</i> , <b>2014</b> , 27, 76-100	4.4	13
40	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> , <b>2010</b> , 115,		12
39	Global Patterns of Submesoscale Surface Salinity Variability. <i>Journal of Physical Oceanography</i> , <b>2019</b> , 49, 1669-1685	2.4	11

38	Interannual Variability of the Sulawesi Sea Circulation Forced by Indo-Pacific Planetary Waves. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 1616-1633	3.3	10
37	Spatiotemporal Features of Intraseasonal Oceanic Variability in the Philippine Sea From Mooring Observations and Numerical Simulations. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 4874-4887	3.3	10
36	Spatial Variation in Turbulent Heat Fluxes in Drake Passage. <i>Journal of Climate</i> , <b>2012</b> , 25, 1470-1488	4.4	9
35	Seasonality and Formation of Barrier Layers and Associated Temperature Inversions in the Eastern Tropical North Pacific. <i>Journal of Physical Oceanography</i> , <b>2020</b> , 50, 791-808	2.4	9
34	Spatial patterns of mixing in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 4021-4039	3.9	8
33	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. <i>Scientific Reports</i> , <b>2019</b> , 9, 7364	4.9	8
32	Interaction of wetting fronts with an impervious surface – Longer time behaviour. <i>Transport in Porous Media</i> , <b>1994</b> , 17, 249-256	3.1	8
31	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> , <b>2019</b> , 124, 4763-4783	3.3	7
30	Processes controlling upper-ocean heat content in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 4409-4423	3.3	7
29	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> , <b>1994</b> , 17, 239-247	3.1	7
28	ENSO Oceanic Teleconnections. <i>Geophysical Monograph Series</i> , <b>2020</b> , 337-359	1.1	7
27	Anomalous Spiking in Spectra of XCTD Temperature Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 1157-1164	2	6
26	Upper-Ocean Salinity Stratification During SPURS-2. <i>Oceanography</i> , <b>2019</b> , 32, 40-41	2.3	6
25	Moored Observations of Transport in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 8166-8192	3.3	6
24	Interocean and Interbasin Exchanges. <i>International Geophysics</i> , <b>2013</b> , 103, 493-518		5
23	Observations of the 2004 and 2006 Indian Ocean tsunamis from a pressure gauge array in Indonesia. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		5
22	Barrier Layers in a High-Resolution Model in the Eastern Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016643	3.3	5
21	Review on observational studies of western tropical Pacific Ocean circulation and climate. <i>Journal of Oceanology and Limnology</i> , <b>2020</b> , 38, 906-929	1.5	5

20	Upper Ocean Stratification in the Eastern Pacific During the SPURS-2 Field Campaign. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2020JC016591	3.3	5
19	Deep circulation driven by strong vertical mixing in the Timor Basin. <i>Ocean Dynamics</i> , <b>2017</b> , 67, 191-209	2.3	4
18	An undercurrent off the east coast of Sri Lanka. <i>Ocean Science</i> , <b>2017</b> , 13, 1035-1044	4	4
17	Validation of a regional Indonesian Seas model based on a comparison between model and INSTANT transports. <i>Dynamics of Atmospheres and Oceans</i> , <b>2010</b> , 50, 313-330	1.9	4
16	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> , <b>2019</b> , 124, 5085-5104	3.3	3
15	Introduction to special section on Western Pacific Ocean Circulation and Climate. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 3175-3176	3.3	3
14	Surface inflow into the South China Sea through the Luzon Strait in winter. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2012</b> , 30, 163-168		3
13	Wind-Driven Ageostrophic Transport in the North Equatorial Countercurrent of the Eastern Pacific at 95°W. <i>Journal of Physical Oceanography</i> , <b>2009</b> , 39, 2985-2998	2.4	3
12	Addendum to Interaction of wetting fronts with an impervious surface. <i>Transport in Porous Media</i> , <b>1995</b> , 21, 95-99	3.1	2
11	Observed Triple Mode of Salinity Variability in the Thermocline of Tropical Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016210	3.3	2
10	The intermediate water in the Philippine Sea. <i>Journal of Oceanology and Limnology</i> , <b>2020</b> , 38, 1343-1353	1.5	2
9	Upper Ocean Vertical Structure <b>2019</b> , 97-104		2
8	The Oceanic Barrier Layer in the Eastern Indian Ocean as a Predictor for Rainfall Over Indonesia and Australia. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094519	4.9	1
7	Large-scale state and evolution of the atmosphere and ocean during PISTON 2018. <i>Journal of Climate</i> , <b>2021</b> , 1-59	4.4	1
6	What Role Does the Barrier Layer Play During Extreme El Niño Events?. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2020JC017001	3.3	1
5	Heat and freshwater changes in the Indian Ocean region. <i>Nature Reviews Earth &amp; Environment</i> , <b>2021</b> , 2, 525-541	30.2	1
4	Seasonality of the Somali Current/Undercurrent system. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2021</b> , 191-192, 104953	2.3	1
3	Best Practice Strategies for Process Studies Designed to Improve Climate Modeling. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1842-E1850	6.1	0



- 2 Upper-Ocean Eddy Heat Flux across the Antarctic Circumpolar Current in Drake Passage from Observations: Time-Mean and Seasonal Variability. *Journal of Physical Oceanography*, **2020**, 50, 2507-2527<sup>24</sup> ○
- 1 Deep pacific circulation: New insights on pathways through the Solomon Sea. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2021**, 171, 103510 2.5 ○