

# Janet Sprintall

## List of Publications by Year in descending order

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133  
papers

8,284  
citations

50276

46  
h-index

51608

86  
g-index

140  
all docs

140  
docs citations

140  
times ranked

7441  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding Oxygen-Minimum Zones in the Tropical Oceans. <i>Science</i> , 2008, 320, 655-658.	12.6	1,229
2	Evidence of the barrier layer in the surface layer of the tropics. <i>Journal of Geophysical Research</i> , 1992, 97, 7305-7316.	3.3	567
3	Pacific western boundary currents and their roles in climate. <i>Nature</i> , 2015, 522, 299-308.	27.8	474
4	Direct estimates of the Indonesian Throughflow entering the Indian Ocean: 2004â€“2006. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	349
5	Observed estimates of convergence in the Savu Sea, Indonesia. <i>Journal of Geophysical Research</i> , 2003, 108, 1-1.	3.3	339
6	Southern Ocean mixedâ€“layer depth from Argo float profiles. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	288
7	The Indonesian throughflow during 2004â€“2006 as observed by the INSTANT program. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 115-128.	1.8	259
8	The Indonesian seas and their role in the coupled oceanâ€“climate system. <i>Nature Geoscience</i> , 2014, 7, 487-492.	12.9	252
9	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.	3.3	151
10	Location of the Antarctic Polar Front from AMSR-E Satellite Sea Surface Temperature Measurements. <i>Journal of Physical Oceanography</i> , 2006, 36, 2075-2089.	1.7	121
11	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. <i>Reviews of Geophysics</i> , 2011, 49, .	23.0	121
12	An Assessment of the Southern Ocean Mixed Layer Heat Budget. <i>Journal of Climate</i> , 2007, 20, 4425-4442.	3.2	120
13	The Indonesian Throughflow response to Indoâ€“Pacific climate variability. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1161-1175.	2.6	115
14	Pacificâ€“toâ€“Indian Ocean connectivity: Tasman leakage, Indonesian Throughflow, and the role of ENSO. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1365-1382.	2.6	105
15	The Southwest Pacific Ocean circulation and climate experiment (SPICE). <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7660-7686.	2.6	101
16	Seasonal to interannual upper-ocean variability in the Drake Passage. <i>Journal of Marine Research</i> , 2003, 61, 27-57.	0.3	94
17	INSTANT: A new international array to measure the Indonesian Throughflow. <i>Eos</i> , 2004, 85, 369.	0.1	92
18	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021, 374, eaay9165.	12.6	92

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19	Simulated and observed circulation in the Indonesian Seas: 1/12 <sup>o</sup> global HYCOM and the INSTANT observations. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 275-300.	1.8	91
20	Dynamics of the South Java Current in the Indo-Australian Basin. <i>Geophysical Research Letters</i> , 1999, 26, 2493-2496.	4.0	89
21	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.	3.3	83
22	Vertical Structure of Kelvin Waves in the Indonesian Throughflow Exit Passages. <i>Journal of Physical Oceanography</i> , 2010, 40, 1965-1987.	1.7	82
23	Deep-reaching acceleration of global mean ocean circulation over the past two decades. <i>Science Advances</i> , 2020, 6, eaax7727.	10.3	80
24	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.	1.4	79
25	Deep expression of the Indonesian Throughflow: Indonesian Intermediate Water in the South Equatorial Current. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	76
26	Space and time scales for optimal interpolation of temperature " Tropical Pacific Ocean. <i>Progress in Oceanography</i> , 1991, 28, 189-218.	3.2	75
27	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.	1.4	75
28	XBT Science: Assessment of Instrumental Biases and Errors. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 924-933.	3.3	72
29	Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification. <i>Geophysical Research Letters</i> , 2017, 44, 1448-1456.	4.0	62
30	Detecting Change in the Indonesian Seas. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	61
31	Interannual variability of the Indonesian Throughflow: The salinity effect. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2596-2615.	2.6	60
32	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.	1.4	59
33	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , 2007, 37, 572-592.	1.7	59
34	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.	2.6	56
35	Tropical Pacific Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	56
36	Characterizing the structure of the surface layer in the Pacific Ocean. <i>Journal of Geophysical Research</i> , 1999, 104, 23297-23311.	3.3	55

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37	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.	3.2	55
38	Regional Oceanography of the Philippine Archipelago. <i>Oceanography</i> , 2011, 24, 14-27.	1.0	54
39	Intraseasonal Kelvin wave in Makassar Strait. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2023-2034.	2.6	54
40	Pathways of intraseasonal variability in the Indonesian Throughflow region. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 174-200.	1.8	53
41	Direct evidence of the South Java Current system in Ombai Strait. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 140-156.	1.8	52
42	Interaction between the Indonesian Seas and the Indian Ocean in Observations and Numerical Models*. <i>Journal of Physical Oceanography</i> , 2002, 32, 1838-1854.	1.7	51
43	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, .	3.3	51
44	Isopycnal diffusivities in the Antarctic Circumpolar Current inferred from Lagrangian floats in an eddy model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
45	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.	0.3	49
46	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.	1.4	48
47	Shallow throughflow variability in the outflow Straits of Indonesia. <i>Geophysical Research Letters</i> , 2000, 27, 125-128.	4.0	48
48	Circulation in the Philippine Archipelago Simulated by 1/12° and 1/25° Global HYCOM and EAS NCOM. <i>Oceanography</i> , 2011, 24, 28-47.	1.0	48
49	Abrupt Transitions in Submesoscale Structure in Southern Drake Passage: Glider Observations and Model Results. <i>Journal of Physical Oceanography</i> , 2018, 48, 2011-2027.	1.7	47
50	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1336-1345.	1.4	44
51	Icebergs as Unique Lagrangian Ecosystems in Polar Seas. <i>Annual Review of Marine Science</i> , 2013, 5, 269-287.	11.6	44
52	Intraseasonal variability in the Makassar Strait thermocline. <i>Journal of Marine Research</i> , 2009, 67, 757-777.	0.3	43
53	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> , 2015, 114, 49-63.	1.4	43
54	Contribution of topographically generated submesoscale turbulence to Southern Ocean overturning. <i>Nature Geoscience</i> , 2017, 10, 840-845.	12.9	42

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55	Intraseasonal variability and tides in Makassar Strait. <i>Geophysical Research Letters</i> , 2000, 27, 1499-1502.	4.0	40
56	Water mass pathways to the North Atlantic oxygen minimum zone. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3350-3372.	2.6	40
57	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.	1.4	39
58	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.	3.2	39
59	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.	1.4	37
60	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, .	3.3	37
61	Anomalous Java cooling at the initiation of positive Indian Ocean Dipole events. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5805-5824.	2.6	37
62	Atmospheric and Oceanic Processes in the Vicinity of an Island Strait. <i>Oceanography</i> , 2011, 24, 112-121.	1.0	37
63	Basin-Wide Oceanographic Array Bridges the South Atlantic. <i>Eos</i> , 2014, 95, 53-54.	0.1	36
64	Maritime Continent water cycle regulates low-latitude chokepoint of global ocean circulation. <i>Nature Communications</i> , 2019, 10, 2103.	12.8	36
65	Observations and proxies of the surface layer throughflow in Lombok Strait. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
66	Long-term trends and interannual variability of temperature in Drake Passage. <i>Progress in Oceanography</i> , 2008, 77, 316-330.	3.2	32
67	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.	1.3	30
68	Observations of exchange between the South China Sea and the Sulu Sea. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
69	“Teddies” and the Origin of the Leeuwin Current. <i>Journal of Physical Oceanography</i> , 2002, 32, 2571-2588.	1.7	28
70	Effects of Eddy Vorticity Forcing on the Mean State of the Kuroshio Extension. <i>Journal of Physical Oceanography</i> , 2015, 45, 1356-1375.	1.7	27
71	Ekman Mass and Heat Transport in the Indonesian Seas. <i>Oceanography</i> , 2005, 18, 88-97.	1.0	26
72	Eulerian and Lagrangian Isopycnal Eddy Diffusivities in the Southern Ocean of an Eddying Model. <i>Journal of Physical Oceanography</i> , 2014, 44, 644-661.	1.7	26

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73	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. <i>Scientific Reports</i> , 2019, 9, 7364.	3.3	24
74	Review on observational studies of western tropical Pacific Ocean circulation and climate. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 906-929.	1.3	24
75	Assessing eddy heat flux and its parameterization: A wavenumber perspective from a 1/10° ocean simulation. <i>Ocean Modelling</i> , 2009, 29, 248-260.	2.4	23
76	Northern Arabian Sea Circulation-Autonomous Research (NASCar): A Research Initiative Based on Autonomous Sensors. <i>Oceanography</i> , 2017, 30, 74-87.	1.0	23
77	The diurnal salinity cycle in the tropics. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5874-5890.	2.6	22
78	An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. <i>Geophysical Research Letters</i> , 2016, 43, 10,846.	4.0	22
79	Transport and Dynamics of the Panay Sill Overflow in the Philippine Seas*. <i>Journal of Physical Oceanography</i> , 2010, 40, 2679-2695.	1.7	21
80	Can Drake Passage Observations Match Ekman's Classic Theory?. <i>Journal of Physical Oceanography</i> , 2013, 43, 1733-1740.	1.7	21
81	Shear at the Base of the Oceanic Mixed Layer Generated by Wind Shear Alignment. <i>Journal of Physical Oceanography</i> , 2013, 43, 1798-1810.	1.7	21
82	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.	1.7	21
83	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.	1.7	20
84	High-Resolution Underway Upper Ocean and Surface Atmospheric Observations in Drake Passage: Synergistic Measurements for Climate Science. <i>Oceanography</i> , 2012, 25, 70-81.	1.0	19
85	Drake Passage Oceanic pCO <sub>2</sub> : Evaluating CMIP5 Coupled Carbon-Climate Models Using in situ Observations. <i>Journal of Climate</i> , 2014, 27, 76-100.	3.2	18
86	Process-Specific Contributions to Anomalous Java Mixed Layer Cooling During Positive IOD Events. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4153-4176.	2.6	18
87	Global Patterns of Submesoscale Surface Salinity Variability. <i>Journal of Physical Oceanography</i> , 2019, 49, 1669-1685.	1.7	18
88	Improving Estimates of the Antarctic Circumpolar Current Streamlines in Drake Passage. <i>Journal of Physical Oceanography</i> , 2008, 38, 1000-1010.	1.7	17
89	Seasonal variability of upper ocean heat content in Drake Passage. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
90	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. <i>Elementa</i> , 2017, 5, .	3.2	17

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91	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.	2.6	17
92	Interannual Variability of the Sulawesi Sea Circulation Forced by Indo-Pacific Planetary Waves. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1616-1633.	2.6	17
93	Heat and freshwater changes in the Indian Ocean region. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 525-541.	29.7	14
94	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, .	3.3	13
95	Spatial patterns of mixing in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4021-4039.	2.6	13
96	An undercurrent off the east coast of Sri Lanka. <i>Ocean Science</i> , 2017, 13, 1035-1044.	3.4	13
97	Spatial Variation in Turbulent Heat Fluxes in Drake Passage. <i>Journal of Climate</i> , 2012, 25, 1470-1488.	3.2	11
98	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.	1.7	11
99	Processes controlling upper-ocean heat content in Drake Passage. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4409-4423.	2.6	10
100	Interaction of wetting fronts with an impervious surface ? Longer time behaviour. <i>Transport in Porous Media</i> , 1994, 17, 249-256.	2.6	9
101	Moored Observations of Transport in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8166-8192.	2.6	9
102	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.	2.6	8
103	Anomalous Spiking in Spectra of XCTD Temperature Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1157-1164.	1.3	8
104	Interocean and Interbasin Exchanges. <i>International Geophysics</i> , 2013, 103, 493-518.	0.6	8
105	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.	2.6	8
106	Upper-Ocean Salinity Stratification During SPURS-2. <i>Oceanography</i> , 2019, 32, 40-41.	1.0	8
107	Large-Scale State and Evolution of the Atmosphere and Ocean during PISTON 2018. <i>Journal of Climate</i> , 2021, 34, 5017-5035.	3.2	7
108	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.	4.0	7

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109	Observations of the 2004 and 2006 Indian Ocean tsunamis from a pressure gauge array in Indonesia. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
110	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.	1.7	6
111	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.	1.8	6
112	Introduction to special section on Western Pacific Ocean Circulation and Climate. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3175-3176.	2.6	6
113	Deep circulation driven by strong vertical mixing in the Timor Basin. <i>Ocean Dynamics</i> , 2017, 67, 191-209.	2.2	6
114	Upper Ocean Stratification in the Eastern Pacific During the SPURS-2 Field Campaign. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016591.	2.6	6
115	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.	2.6	5
116	The intermediate water in the Philippine Sea. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 1343-1353.	1.3	5
117	What Role Does the Barrier Layer Play During Extreme El Niño Events?. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017001.	2.6	5
118	Barrier Layers in a High-Resolution Model in the Eastern Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016643.	2.6	5
119	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.	1.7	5
120	Addendum to "Interaction of wetting fronts with an impervious surface?". <i>Transport in Porous Media</i> , 1995, 21, 95-99.	2.6	4
121	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.	0.7	4
122	Observed Triple Mode of Salinity Variability in the Thermocline of Tropical Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016210.	2.6	4
123	Seasonality of the Somali Current/Undercurrent system. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2021, 191-192, 104953.	1.4	4
124	Deep pacific circulation: New insights on pathways through the Solomon Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 171, 103510.	1.4	3
125	The Barrier Layer Effect on the Heat and Freshwater Balance from Moored Observations in the Eastern Pacific Fresh Pool. <i>Journal of Physical Oceanography</i> , 2022, 52, 1705-1730.	1.7	3
126	Upper Ocean Vertical Structure. , 2019, , 97-104.		2



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127	Turbulent mixing and lee-wave radiation in Drake Passage: sensitivity to topography. Journal of Geophysical Research: Oceans, 0, , .	2.6	2
128	Best Practice Strategies for Process Studies Designed to Improve Climate Modeling. Bulletin of the American Meteorological Society, 2020, 101, E1842-E1850.	3.3	1
129	Appreciation of 2017 GRL Peer Reviewers. Geophysical Research Letters, 2018, 45, 4494-4528.	4.0	0
130	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	4.0	0
131	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	4.0	0
132	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	4.0	0
133	Seasonal to Decadal Western Boundary Current Variability From Sustained Ocean Observations. Geophysical Research Letters, 2022, 49, .	4.0	0