

# Sabrina Speich

## List of Publications by Year in descending order

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115  
papers

12,501  
citations

57719

44  
h-index

30058

103  
g-index

137  
all docs

137  
docs citations

137  
times ranked

13034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shelf Water Export at the Brazil-Malvinas Confluence Evidenced From Combined in situ and Satellite Observations. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	7
2	Formation and Transport of the South Atlantic Subtropical Mode Water in Eddy-Permitting Observations. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	6
3	The Ocean Gene Atlas v2.0: online exploration of the biogeography and phylogeny of plankton genes. <i>Nucleic Acids Research</i> , 2022, 50, W516-W526.	6.5	26
4	Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. <i>Cell Genomics</i> , 2022, 2, 100123.	3.0	70
5	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO <sub>2</sub> than expected. <i>Biogeosciences</i> , 2022, 19, 2969-2988.	1.3	12
6	The South Atlantic Meridional Overturning Circulation and Mesoscale Eddies in the First GO-SHIP Section at 34.5°S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016962.	1.0	12
7	Ship- and island-based atmospheric soundings from the 2020 EUREC4A field campaign. <i>Earth System Science Data</i> , 2021, 13, 491-514.	3.7	26
8	Multi-Year Estimates of Daily Heat Transport by the Atlantic Meridional Overturning Circulation at 34.5°S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016947.	1.0	8
9	Formation and Evolution of a Freshwater Plume in the Northwestern Tropical Atlantic in February 2020. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016981.	1.0	17
10	Integrated water vapour content retrievals from ship-borne GNSS receivers during EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 1499-1517.	3.7	18
11	High-End Scenarios of Sea-Level Rise for Coastal Risk-Averse Stakeholders. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	8
12	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	1.2	119
13	Impact of Mesoscale Eddies on Deep Chlorophyll Maxima. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093470.	1.5	22
14	EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	3.7	88
15	Macroscale patterns of oceanic zooplankton composition and size structure. <i>Scientific Reports</i> , 2021, 11, 15714.	1.6	24
16	Compendium of 530 metagenome-assembled bacterial and archaeal genomes from the polar Arctic Ocean. <i>Nature Microbiology</i> , 2021, 6, 1561-1574.	5.9	57
17	Argo Data 1999–2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	117
18	Highly variable upper and abyssal overturning cells in the South Atlantic. <i>Science Advances</i> , 2020, 6, eaba7573.	4.7	26

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19	Agulhas Ring Heat Content and Transport in the South Atlantic Estimated by Combining Satellite Altimetry and Argo Profiling Floats Data. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015511.	1.0	18
20	Generation and Intensification of Mesoscale Anticyclones by Orographic Wind Jets: The Case of Ierapetra Eddies Forced by the Etesians. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015810.	1.0	4
21	A means of estimating the intrinsic and atmospherically-forced contributions to sea surface height variability applied to altimetric observations. <i>Progress in Oceanography</i> , 2020, 184, 102314.	1.5	14
22	Global Oceans. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S129-S184.	1.7	12
23	Evolving the Physical Global Ocean Observing System for Research and Application Services Through International Coordination. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	11
24	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	123
25	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	120
26	Evolution of the Thermohaline Structure of One Agulhas Ring Reconstructed from Satellite Altimetry and Argo Floats. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8969-9003.	1.0	23
27	Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. <i>Cell</i> , 2019, 179, 1068-1083.e21.	13.5	268
28	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019, 179, 1084-1097.e21.	13.5	271
29	Adequacy of the Ocean Observation System for Quantifying Regional Heat and Freshwater Storage and Change. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	19
30	Editorial: Oceanobs'19: An Ocean of Opportunity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	10
31	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	12
32	Requirements for a Coastal Hazards Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	92
33	Future Ocean Observations to Connect Climate, Fisheries and Marine Ecosystems. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	24
34	Cold vs. warm water route "sources" for the upper limb of the Atlantic Meridional Overturning Circulation revisited in a high-resolution ocean model. <i>Ocean Science</i> , 2019, 15, 489-512.	1.3	51
35	The Tropical Atlantic Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	80
36	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019, 177, 1109-1123.e14.	13.5	541

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37	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019, 33, 391-419.	1.9	76
38	Frontiers in Fine-Scale in situ Studies: Opportunities During the SWOT Fast Sampling Phase. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	26
39	Cyclostrophic Corrections of AVISO/DUACS Surface Velocities and Its Application to Mesoscale Eddies in the Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8913-8932.	1.0	20
40	Shallow and Deep Eastern Boundary Currents in the South Atlantic at 34.5°S: Mean Structure and Variability. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1634-1659.	1.0	17
41	Mesoscale and Submesoscale Processes in the Southeast Atlantic and Their Impact on the Regional Thermohaline Structure. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1937-1961.	1.0	16
42	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018, 9, 310.	5.8	101
43	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018, 9, 373.	5.8	297
44	Anticyclonic Eddies Connecting the Western Boundaries of Indian and Atlantic Oceans. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7651-7677.	1.0	75
45	Moored observations of mesoscale features in the Cape Basin: characteristics and local impacts on water mass distributions. <i>Ocean Science</i> , 2018, 14, 923-945.	1.3	15
46	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	1.4	257
47	Meridional Overturning Circulation Transport Variability at 34.5°S During 2009–2017: Baroclinic and Barotropic Flows and the Dueling Influence of the Boundaries. <i>Geophysical Research Letters</i> , 2018, 45, 4180-4188.	1.5	55
48	Indo-Atlantic Exchange, Mesoscale Dynamics, and Antarctic Intermediate Water. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3286-3306.	1.0	7
49	Exploring the Interplay Between Ocean Eddies and the Atmosphere. <i>Eos</i> , 2018, 99, .	0.1	1
50	Observed and projected sea surface temperature seasonal changes in the Western English Channel from satellite data and CMIP5 multi-model ensemble. <i>International Journal of Climatology</i> , 2017, 37, 2831-2849.	1.5	14
51	Viral to metazoan marine plankton nucleotide sequences from the Tara Oceans expedition. <i>Scientific Data</i> , 2017, 4, 170093.	2.4	147
52	Dynamical Evolution of Intense Ierapetra Eddies on a 22 Year Long Period. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9276-9298.	1.0	34
53	EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Surveys in Geophysics</i> , 2017, 38, 1529-1568.	2.1	132
54	importance of monitoring the Greater Agulhas Current and its inter-ocean exchanges using large mooring arrays. <i>South African Journal of Science</i> , 2017, 113, 7.	0.3	10

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55	Exploring Microdiversity in Novel <i>Kordia</i> sp. (Bacteroidetes) with Proteorhodopsin from the Tropical Indian Ocean via Single Amplified Genomes. <i>Frontiers in Microbiology</i> , 2017, 8, 1317.	1.5	7
56	EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Space Sciences Series of ISSI</i> , 2017, , 357-396.	0.0	2
57	Decadal-scale thermohaline variability in the Atlantic sector of the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3171-3189.	1.0	7
58	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016, 532, 465-470.	13.7	670
59	Open science resources for the discovery and analysis of Tara Oceans data. <i>Scientific Data</i> , 2015, 2, 150023.	2.4	330
60	Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015, 348, 1262073.	6.0	842
61	Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015, 348, 1261498.	6.0	617
62	Structure and function of the global ocean microbiome. <i>Science</i> , 2015, 348, 1261359.	6.0	2,137
63	Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015, 348, 1261605.	6.0	1,551
64	Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015, 348, 1261447.	6.0	158
65	Lagrangian water mass tracing from pseudo-Argo, model-derived salinity, tracer and velocity data: An application to Antarctic Intermediate Water in the South Atlantic Ocean. <i>Ocean Modelling</i> , 2015, 85, 56-67.	1.0	1
66	Consistency of the current global ocean observing systems from an Argo perspective. <i>Ocean Science</i> , 2014, 10, 547-557.	1.3	54
67	Basin-Wide Oceanographic Array Bridges the South Atlantic. <i>Eos</i> , 2014, 95, 53-54.	0.1	36
68	Temporal variability of the meridional overturning circulation at 34.5°S: Results from two pilot boundary arrays in the South Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6461-6478.	1.0	70
69	Tracers of physical and biogeochemical processes, past changes and ongoing anthropogenic impacts: The 43rd International Liege Colloquium on Ocean Dynamics, Liege, Belgium, May 26-30, 2011. <i>Journal of Marine Systems</i> , 2013, 126, 1-2.	0.9	0
70	The exchange of Intermediate Water in the southeast Atlantic: Water mass transformations diagnosed from the Lagrangian analysis of a regional ocean model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
71	Interocean exchanges and the spreading of Antarctic Intermediate Water south of Africa. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
72	Marine atmospheric boundary layer over some Southern Ocean fronts during the IPY BGH 2008 cruise. <i>Ocean Science</i> , 2012, 8, 1001-1023.	1.3	9

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73	A Holistic Approach to Marine Eco-Systems Biology. PLoS Biology, 2011, 9, e1001177.	2.6	353
74	Anticyclonic and cyclonic eddies of subtropical origin in the subantarctic zone south of Africa. Journal of Geophysical Research, 2011, 116, .	3.3	49
75	Silicon pool dynamics and biogenic silica export in the Southern Ocean inferred from Si-isotopes. Ocean Science, 2011, 7, 533-547.	1.3	56
76	Nitrogen uptake by phytoplankton in the Atlantic sector of the Southern Ocean during late austral summer. Biogeosciences, 2011, 8, 2947-2959.	1.3	32
77	Labile Fe(II) concentrations in the Atlantic sector of the Southern Ocean along a transect from the subtropical domain to the Weddell Sea Gyre. Biogeosciences, 2011, 8, 2461-2479.	1.3	35
78	Carbonate system in the water masses of the Southeast Atlantic sector of the Southern Ocean during February and March 2008. Biogeosciences, 2011, 8, 1401-1413.	1.3	19
79	The biogeochemical cycle of dissolved cobalt in the Atlantic and the Southern Ocean south off the coast of South Africa. Marine Chemistry, 2011, 126, 193-206.	0.9	62
80	Is there a continuous Subtropical Front south of Africa?. Journal of Geophysical Research, 2011, 116, .	3.3	22
81	Heat budget of the surface mixed layer south of Africa. Ocean Dynamics, 2011, 61, 1441-1458.	0.9	15
82	An altimetry-based gravest empirical mode south of Africa: 1. Development and validation. Journal of Geophysical Research, 2010, 115, .	3.3	55
83	An altimetry-based gravest empirical mode south of Africa: 2. Dynamic nature of the Antarctic Circumpolar Current fronts. Journal of Geophysical Research, 2010, 115, .	3.3	25
84	Physical speciation of iron in the Atlantic sector of the Southern Ocean along a transect from the subtropical domain to the Weddell Sea Gyre. Journal of Geophysical Research, 2010, 115, .	3.3	55
85	Spatio-temporal characteristics of the Agulhas Current retroflection. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 1392-1405.	0.6	47
86	Routes of Agulhas rings in the southeastern Cape Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 1406-1421.	0.6	62
87	Deep Circulation and Meridional Overturning: Recent Progress and a Strategy for Sustained Observations. , 2010, , .		6
88	Mesoscale eddy activity in the southern Benguela upwelling system from satellite altimetry and model data. Progress in Oceanography, 2009, 83, 288-295.	1.5	47
89	Transport and variability of the Antarctic Circumpolar Current south of Africa. Journal of Geophysical Research, 2008, 113, .	3.3	44
90	A hydrographic section from South Africa to the southern limit of the Antarctic Circumpolar Current at the Greenwich meridian. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1284-1303.	0.6	65

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91	The Role of Southern Ocean Surface Forcings and Mixing in the Global Conveyor. Journal of Physical Oceanography, 2008, 38, 1377-1400.	0.7	54
92	The Global Conveyor Belt from a Southern Ocean Perspective. Journal of Physical Oceanography, 2008, 38, 1401-1425.	0.7	52
93	On the Dynamics of the Slope Current System along the West European Margin. Part II: Analytical Calculations and Numerical Simulations with Seasonal Forcing. Journal of Physical Oceanography, 2008, 38, 2619-2638.	0.7	6
94	A regional numerical ocean model of the circulation in the Bay of Biscay. Journal of Geophysical Research, 2007, 112, .	3.3	28
95	Tracking coherent structures in a regional ocean model with wavelet analysis: Application to Cape Basin eddies. Journal of Geophysical Research, 2007, 112, .	3.3	125
96	Atlantic meridional overturning circulation and the Southern Hemisphere supergyre. Geophysical Research Letters, 2007, 34, .	1.5	123
97	Salinity changes along the upper limb of the Atlantic thermohaline circulation. Geophysical Research Letters, 2006, 33, .	1.5	19
98	A Lagrangian analysis of the Indian-Atlantic interocean exchange in a regional model. Geophysical Research Letters, 2006, 33, .	1.5	48
99	Role of bathymetry in Agulhas Current configuration and behaviour. Geophysical Research Letters, 2006, 33, .	1.5	39
100	Water Mass Export from Drake Passage to the Atlantic, Indian, and Pacific Oceans: A Lagrangian Model Analysis. Journal of Physical Oceanography, 2005, 35, 1206-1222.	0.7	32
101	Using MSSA to determine explicitly the oscillatory dynamics of weakly nonlinear climate systems. Nonlinear Processes in Geophysics, 2005, 12, 807-815.	0.6	6
102	Modeling the structure and variability of the southern Benguela upwelling using QuikSCAT wind forcing. Journal of Geophysical Research, 2005, 110, .	3.3	41
103	The baroclinic transport of the Antarctic Circumpolar Current south of Africa. Geophysical Research Letters, 2005, 32, .	1.5	14
104	Diagnosing and Picturing the North Atlantic Segment of the Global Conveyor Belt by Means of an Ocean General Circulation Model. Journal of Physical Oceanography, 2002, 32, 1430-1451.	0.7	19
105	Linking wind and interannual upwelling variability in a regional model of the southern Benguela. Geophysical Research Letters, 2002, 29, 41-1-41-4.	1.5	25
106	A global diagnostic of interior ocean ventilation. Geophysical Research Letters, 2002, 29, 108-1-108-4.	1.5	26
107	Tasman leakage: A new route in the global ocean conveyor belt. Geophysical Research Letters, 2002, 29, 55-1-55-4.	1.5	136
108	Model intercomparison in the Mediterranean: MEDMEX simulations of the seasonal cycle. Journal of Marine Systems, 2002, 33-34, 215-251.	0.9	31

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109	Warm and cold water routes of an O.G.C.M. thermohaline conveyor belt. Geophysical Research Letters, 2001, 28, 311-314.	1.5	87
110	A Global Diagnostic of Interocean Mass Transfers. Journal of Physical Oceanography, 2001, 31, 1623-1632.	0.7	45
111	Impacts of the ocean lateral diffusion on the El Niño/Southern Oscillation-like variability of a global coupled general circulation model. Geophysical Research Letters, 2000, 27, 3041-3044.	1.5	9
112	A Strait Outflow Circulation Process Study: The Case of the Alboran Sea. Journal of Physical Oceanography, 1996, 26, 320-340.	0.7	31
113	Successive bifurcations in a shallow-water model applied to the wind-driven ocean circulation. Nonlinear Processes in Geophysics, 1995, 2, 241-268.	0.6	107
114	On the eigenperiods in the Tyrrhenian Sea level oscillations. Il Nuovo Cimento Della Società Italiana Di Fisica C, 1988, 11, 219-228.	0.2	3
115	Characterizing Mesoscale Eddies of Eastern Upwelling Origins in the Atlantic Ocean and Their Role in Offshore Transport. Frontiers in Marine Science, 0, 9, .	1.2	4