

Sylvia Cole

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,057
citations

471509

17
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	On sampling the ocean using underwater gliders. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	121
2	Characterizing the eddy field in the Arctic Ocean halocline. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8800-8817.	2.6	98
3	Eddy stirring and horizontal diffusivity from Argo float observations: Geographic and depth variability. <i>Geophysical Research Letters</i> , 2015, 42, 3989-3997.	4.0	86
4	Horizontal Density Structure and Restratification of the Arctic Ocean Surface Layer. <i>Journal of Physical Oceanography</i> , 2012, 42, 659-668.	1.7	80
5	Ekman Veering, Internal Waves, and Turbulence Observed under Arctic Sea Ice. <i>Journal of Physical Oceanography</i> , 2014, 44, 1306-1328.	1.7	73
6	Evolution of the eddy field in the Arctic Ocean's Canada Basin, 2005–2015. <i>Geophysical Research Letters</i> , 2016, 43, 8106-8114.	4.0	57
7	The Beaufort Gyre intensification and stabilization: A model-observation synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7933-7952.	2.6	54
8	Overview of the MOSAiC expedition: Physical oceanography. <i>Elementa</i> , 2022, 10, .	3.2	54
9	Observations of Tidal Internal Wave Beams at Kauai Channel, Hawaii. <i>Journal of Physical Oceanography</i> , 2009, 39, 421-436.	1.7	50
10	The spatial distribution and annual cycle of upper ocean thermohaline structure. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
11	Observational Inferences of Lateral Eddy Diffusivity in the Halocline of the Beaufort Gyre. <i>Geophysical Research Letters</i> , 2017, 44, 12,331.	4.0	41
12	Internal tidal beams and mixing near Monterey Bay. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
13	An Autonomous Approach to Observing the Seasonal Ice Zone in the Western Arctic. <i>Oceanography</i> , 2017, 30, 56-68.	1.0	38
14	Circulation of Pacific Winter Water in the Western Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 863-881.	2.6	36
15	Ice and ocean velocity in the Arctic marginal ice zone: Ice roughness and momentum transfer. <i>Elementa</i> , 2017, 5, .	3.2	34
16	Seasonal evolution of upper ocean horizontal structure and the remnant mixed layer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
17	Evolution of a Canada Basin ice-ocean boundary layer and mixed layer across a developing thermodynamically forced marginal ice zone. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6223-6250.	2.6	27
18	Comparing Observations and Parameterizations of Ice-Ocean Drag Through an Annual Cycle Across the Beaufort Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016977.	2.6	18

#	ARTICLE	IF	CITATIONS
19	Internal Waves in the Arctic: Influence of Ice Concentration, Ice Roughness, and Surface Layer Stratification. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5571-5586.	2.6	14
20	Deepening of the Winter Mixed Layer in the Canada Basin, Arctic Ocean Over 2006–2017. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4618-4630.	2.6	14
21	Retrieving Sea Ice Drag Coefficients and Turning Angles From In Situ and Satellite Observations Using an Inverse Modeling Framework. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6388-6413.	2.6	12
22	Decadal Observations of Internal Wave Energy, Shear, and Mixing in the Western Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	9
23	Processing of velocity observations from Ice-Tethered Profilers. , 2015, , .		8
24	Increasing Winter Ocean–Ice Heat Flux in the Beaufort Gyre Region, Arctic Ocean Over 2006–2018. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
25	Numerical investigation of the Arctic ice–ocean boundary layer and implications for air–sea gas fluxes. <i>Ocean Science</i> , 2017, 13, 61-75.	3.4	6
26	Double Diffusion, Shear Instabilities, and Heat Impacts of a Pacific Summer Water Intrusion in the Beaufort Sea. <i>Journal of Physical Oceanography</i> , 2022, 52, 189-203.	1.7	2