

Adrienne J Sutton

List of Publications by Citations

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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.

70
papers

4,770
citations

26
h-index

69
g-index

88
ext. papers

6,442
ext. citations

6.6
avg, IF

4.8
L-index

#	Paper	IF	Citations
70	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
69	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
68	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
67	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015 , 7, 349-396	10.5	513
66	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
65	A multi-decade record of high-quality $\delta^{13}C_{org}$ and $\delta^{13}C_{CO_2}$ data in version 3 of the Surface Ocean $\delta^{13}C_{org}$ Atlas (SOCAT). <i>Earth System Science Data</i> , 2016 , 8, 383-413	10.5	260
64	An update to the Surface Ocean $\delta^{13}C_{org}$ Atlas (SOCAT version 2). <i>Earth System Science Data</i> , 2014 , 6, 69-90	10.5	136
63	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, Si-S310	6.1	127
62	Global carbon budget 2014		121
61	A high-frequency atmospheric and seawater $\delta^{13}C_{org}$ and $\delta^{13}C_{CO_2}$ data set from 14 open-ocean sites using a moored autonomous system. <i>Earth System Science Data</i> , 2014 , 6, 353-366	10.5	76
60	Influence of El Niño on atmospheric CO ₂ over the tropical Pacific Ocean: Findings from NASA's OCO-2 mission. <i>Science</i> , 2017 , 358,	33.3	58
59	Sea surface carbon dioxide at the Georgia time series site (2006-2007): Air-sea flux and controlling processes. <i>Progress in Oceanography</i> , 2016 , 140, 14-26	3.8	48
58	Natural variability and anthropogenic change in equatorial Pacific surface ocean pCO ₂ and pH. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 131-145	5.9	48
57	Monitoring ocean biogeochemistry with autonomous platforms. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 315-326	30.2	47
56	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
55	The Tropical Atlantic Observing System. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	46
54	Using present-day observations to detect when anthropogenic change forces surface ocean carbonate chemistry outside preindustrial bounds. <i>Biogeosciences</i> , 2016 , 13, 5065-5083	4.6	46

53	Tropical Pacific Observing System. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	41
52	Seasonality of biological and physical controls on surface ocean CO ₂ from hourly observations at the Southern Ocean Time Series site south of Australia. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 223-238	5.9	41
51	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. <i>Earth and Space Science</i> , 2019 , 6, 577-616	3.1	39
50	Autonomous seawater pCO ₂ and pH time series from 40 surface buoys and the emergence of anthropogenic trends. <i>Earth System Science Data</i> , 2019 , 11, 421-439	10.5	37
49	Variability and trends in surface seawater pCO ₂ and CO ₂ flux in the Pacific Ocean. <i>Geophysical Research Letters</i> , 2017 , 44, 5627-5636	4.9	36
48	Relating nutrient and herbicide fate with landscape features and characteristics of 15 subwatersheds in the Choptank River watershed. <i>Science of the Total Environment</i> , 2011 , 409, 3866-78	10.2	29
47	Comparing Chemistry and Census-Based Estimates of Net Ecosystem Calcification on a Rim Reef in Bermuda. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	28
46	Controls on surface water carbonate chemistry along North American ocean margins. <i>Nature Communications</i> , 2020 , 11, 2691	17.4	26
45	Global Carbon Budget 2021		26
44	Carbon cycling in the North American coastal ocean: a synthesis. <i>Biogeosciences</i> , 2019 , 16, 1281-1304	4.6	24
43	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	23
42	History of land cover change and biogeochemical impacts in the Choptank River basin in the mid-Atlantic region of the US. <i>International Journal of Remote Sensing</i> , 2006 , 27, 3683-3703	3.1	23
41	Estimating Total Alkalinity in the Washington State Coastal Zone: Complexities and Surprising Utility for Ocean Acidification Research. <i>Estuaries and Coasts</i> , 2017 , 40, 404-418	2.8	22
40	A Global Ocean Observing System (GOOS), Delivered Through Enhanced Collaboration Across Regions, Communities, and New Technologies. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	21
39	Effects of Restored Stream Buffers on Water Quality in Non-tidal Streams in the Choptank River Basin. <i>Water, Air, and Soil Pollution</i> , 2010 , 208, 101-118	2.6	21
38	Comparing Air-Sea Flux Measurements from a New Unmanned Surface Vehicle and Proven Platforms During the SPURS-2 Field Campaign. <i>Oceanography</i> , 2019 , 32, 122-133	2.3	21
37	Mixed-layer carbon cycling at the Kuroshio Extension Observatory. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 272-288	5.9	20
36	Sea surface aragonite saturation state variations and control mechanisms at the Gray Reef time-series site off Georgia, USA (2006-2007). <i>Marine Chemistry</i> , 2017 , 195, 27-40	3.7	20

35	Public-Private Partnerships to Advance Regional Ocean-Observing Capabilities: A Saildrone and NOAA-PMEL Case Study and Future Considerations to Expand to Global Scale Observing. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	20
34	The Choptank Basin in Transition. <i>Marine Science</i> , 2010 , 135-165		18
33	Seasonal carbonate chemistry variability in marine surface waters of the US Pacific Northwest. <i>Earth System Science Data</i> , 2018 , 10, 1367-1401	10.5	18
32	A Surface Ocean CO ₂ Reference Network, SOCONET and Associated Marine Boundary Layer CO ₂ Measurements. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	17
31	Historical Changes in Water Quality at German Branch in the Choptank River Basin. <i>Water, Air, and Soil Pollution</i> , 2009 , 199, 353-369	2.6	16
30	Numerical simulations of oceanic pCO ₂ variations and interactions between Typhoon Choi-wan (0914) and the ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 2667-2684	3.3	12
29	Evaluation of marine pH sensors under controlled and natural conditions for the Wendy Schmidt Ocean Health XPRIZE. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 586-600	2.6	11
28	Time series pCO ₂ at a coastal mooring: Internal consistency, seasonal cycles, and interannual variability. <i>Continental Shelf Research</i> , 2017 , 145, 95-108	2.4	11
27	Evaluation of a New Carbon Dioxide System for Autonomous Surface Vehicles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020 , 37, 1305-1317	2	10
26	Constraining Southern Ocean CO ₂ Flux Uncertainty Using Uncrewed Surface Vehicle Observations. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091748	4.9	10
25	An update to the Surface Ocean CO ₂ Atlas (SOCAT version 2) 2013 ,		8
24	Biogeochemical storm response in agricultural watersheds of the Choptank River Basin, Delmarva Peninsula, USA. <i>Biogeochemistry</i> , 2018 , 139, 215-239	3.8	8
23	Hawaii Coastal Seawater CO ₂ Network: A Statistical Evaluation of a Decade of Observations on Tropical Coral Reefs. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
22	A high-frequency atmospheric and seawater pCO ₂ data set from 14 open ocean sites using a moored autonomous system		7
21	Seasonal Variations of Carbonate Chemistry at Two Western Atlantic Coral Reefs. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016108	3.3	6
20	A multi-decade record of high-quality fCO ₂ data in version 3 of the Surface Ocean CO ₂ Atlas (SOCAT)		6
19	Time of Detection as a Metric for Prioritizing Between Climate Observation Quality, Frequency, and Duration. <i>Geophysical Research Letters</i> , 2019 , 46, 3853-3861	4.9	5
18	Biogeochemical Anomalies at Two Southern California Current System Moorings During the 2014-2016 Warm Anomaly-El Niño Sequence. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 6886-6903	3.3	5

17	Using present-day observations to detect when anthropogenic change forces surface ocean carbonate chemistry outside pre-industrial bounds		4
16	Global Carbon Budget 2018		4
15	The Ocean Carbon Response to COVID-Related Emissions Reductions. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092263	4.9	4
14	Characterizing Mean and Extreme Diurnal Variability of Ocean CO ₂ System Variables Across Marine Environments. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090228	4.9	4
13	Surface ocean carbon dioxide variability in South Pacific boundary currents and Subantarctic waters. <i>Scientific Reports</i> , 2019 , 9, 7592	4.9	3
12	Spatio-temporal variability of surface water pCO ₂ and nutrients in the tropical Pacific from 1981 to 2015. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019 , 169-170, 104680	2.3	3
11	Global Carbon Budget 2016		3
10	Autonomous seawater pCO ₂ and pH time series from 40 surface buoys and the emergence of anthropogenic trends		3
9	Field evaluation of a low-powered, profiling pCO ₂ system in coastal Washington. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 280-296	2.6	2
8	Storms drive outgassing of CO ₂ in the subpolar Southern Ocean.. <i>Nature Communications</i> , 2022 , 13, 158	17.4	2
7	Carbon cycling in the North American coastal ocean: A synthesis		2
6	Autonomous seawater pCO ₂ and pH time series from 40 surface buoys and the emergence of anthropogenic trends		2
5	Coupling Chemical and Biological Monitoring to Understand the Impact of Ocean Acidification on Coral Reef Ecosystems. <i>Oceanography</i> , 2015 , 25, 28-29	2.3	1
4	Autonomous wintertime observations of air-sea exchange in the Gulf Stream reveal a perfect storm for ocean CO ₂ uptake. <i>Geophysical Research Letters</i> ,	4.9	1
3	Quantifying the Atmospheric CO ₂ Forcing Effect on Surface Ocean pCO ₂ in the North Pacific Subtropical Gyre in the Past Two Decades. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	1
2	Ocean Biogeochemical Signatures of the North Pacific Blob. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
1	A monthly surface pCO ₂ product for the California Current Large Marine Ecosystem. <i>Earth System Science Data</i> , 2022 , 14, 2081-2108	10.5	