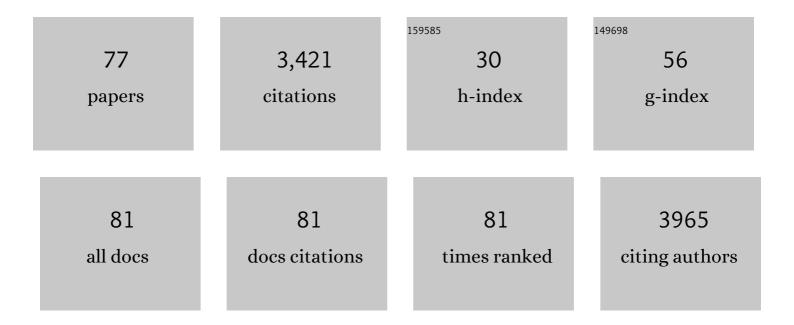
Christopher J Zappa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Scaling the gas transfer velocity and hydraulic geometry in streams and small rivers. Limnology & Oceanography Fluids & Environments, 2012, 2, 41-53.	1.7	444
2	Environmental turbulent mixing controls on air-water gas exchange in marine and aquatic systems. Geophysical Research Letters, 2007, 34, .	4.0	253
3	Infrared remote sensing of breaking waves. Nature, 1997, 385, 52-55.	27.8	168
4	The Coupled Boundary Layers and Air–Sea Transfer Experiment in Low Winds. Bulletin of the American Meteorological Society, 2007, 88, 341-356.	3.3	154
5	Air-sea CO2exchange in the equatorial Pacific. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	143
6	Variation in surface turbulence and the gas transfer velocity over a tidal cycle in a macro-tidal estuary. Estuaries and Coasts, 2003, 26, 1401-1415.	1.7	141
7	Antarctic ice shelf potentially stabilized by export of meltwater in surface river. Nature, 2017, 544, 344-348.	27.8	124
8	Defining and quantifying microscale wave breaking with infrared imagery. Journal of Geophysical Research, 1997, 102, 23145-23153.	3.3	100
9	Air–Sea Interactions from Westerly Wind Bursts During the November 2011 MJO in the Indian Ocean. Bulletin of the American Meteorological Society, 2014, 95, 1185-1199.	3.3	100
10	Microbreaking and the enhancement of air-water transfer velocity. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	89
11	Retrieval of short ocean wave slope using polarimetric imaging. Measurement Science and Technology, 2008, 19, 055503.	2.6	89
12	Microscale wave breaking and air-water gas transfer. Journal of Geophysical Research, 2001, 106, 9385-9391.	3.3	87
13	Sea surface microlayer in a changing ocean â \in " A perspective. Elementa, 2017, 5, .	3.2	73
14	Transfer Across the Air-Sea Interface. Springer Earth System Sciences, 2014, , 55-112.	0.2	69
15	Direct covariance measurement of CO ₂ gas transfer velocity during the 2008 Southern Ocean Gas Exchange Experiment: Wind speed dependency. Journal of Geophysical Research, 2011, 116, .	3.3	67
16	Scalar flux profile relationships over the open ocean. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	63
17	A parameter model of gas exchange for the seasonal sea ice zone. Ocean Science, 2014, 10, 17-28.	3.4	62
18	Whitecap Coverage Dependence on Wind and Wave Statistics as Observed during SO GasEx and HiWinGS. Journal of Physical Oceanography, 2017, 47, 2211-2235.	1.7	62

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19	Rainâ€induced turbulence and airâ€sea gas transfer. Journal of Geophysical Research, 2009, 114, .	3.3	53
20	Basal channels drive active surface hydrology and transverse ice shelf fracture. Science Advances, 2018, 4, eaao7212.	10.3	50
21	An overview of sea state conditions and airâ€sea fluxes during RaDyO. Journal of Geophysical Research, 2012, 117, .	3.3	47
22	Wind Speed and Sea State Dependencies of Airâ€5ea Gas Transfer: Results From the High Wind Speed Gas Exchange Study (HiWinGS). Journal of Geophysical Research: Oceans, 2017, 122, 8034-8062.	2.6	47
23	Influence of rain on air-sea gas exchange: Lessons from a model ocean. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	46
24	Aircraft Observations of Dry Air, the ITCZ, Convective Cloud Systems, and Cold Pools in MJO during DYNAMO. Bulletin of the American Meteorological Society, 2016, 97, 405-423.	3.3	43
25	Waveâ€Related Reynolds Number Parameterizations of CO ₂ and DMS Transfer Velocities. Geophysical Research Letters, 2017, 44, 9865-9875.	4.0	40
26	Rain impacts on CO ₂ exchange in the western equatorial Pacific Ocean. Geophysical Research Letters, 2010, 37, .	4.0	38
27	Observations of Antarctic Polynya With Unmanned Aircraft Systems. Eos, 2010, 91, 245-246.	0.1	37
28	Skin layer recovery of free-surface wakes: Relationship to surface renewal and dependence on heat flux and background turbulence. Journal of Geophysical Research, 1998, 103, 21711-21722.	3.3	33
29	Sea surface temperature signatures of oceanic internal waves in low winds. Journal of Geophysical Research, 2007, 112, .	3.3	31
30	Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations. Frontiers in Marine Science, 2019, 6, .	2.5	31
31	Optical measurements of small deeply penetrating bubble populations generated by breaking waves in the Southern Ocean. Journal of Geophysical Research: Oceans, 2014, 119, 757-776.	2.6	29
32	Co-production of knowledge reveals loss of Indigenous hunting opportunities in the face of accelerating Arctic climate change. Environmental Research Letters, 2021, 16, 095003.	5.2	28
33	High-Resolution Airborne Infrared Measurements of Ocean Skin Temperature. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 146-150.	3.1	26
34	Polarized light field under dynamic ocean surfaces: Numerical modeling compared with measurements. Journal of Geophysical Research, 2011, 116, .	3.3	25
35	Warming and Inhibition of Salinization at the Ocean's Surface by Cyanobacteria. Geophysical Research Letters, 2018, 45, 4230-4237.	4.0	25
36	Sea surface <i>p</i> CO ₂ and O ₂ in the Southern Ocean during the austral fall, 2008. Journal of Geophysical Research, 2011, 116, .	3.3	24

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37	Sea-to-air fluxes from measurements of the atmospheric gradient of dimethylsulfide and comparison with simultaneous relaxed eddy accumulation measurements. Journal of Geophysical Research, 2004, 109, .	3.3	22
38	The <scp>G</scp> as <scp>T</scp> ransfer through <scp>P</scp> olar <scp>S</scp> ea ice experiment: Insights into the rates and pathways that determine geochemical fluxes. Journal of Geophysical Research: Oceans, 2015, 120, 8177-8194.	2.6	22
39	Evidence for complete and partial surface renewal at an airâ€water interface. Geophysical Research Letters, 2009, 36, .	4.0	21
40	Anthropogenic inputs from a coastal megacity are linked to greenhouse gas concentrations in the surrounding estuary. Limnology and Oceanography, 2019, 64, 2497-2511.	3.1	21
41	Using Ship-Deployed High-Endurance Unmanned Aerial Vehicles for the Study of Ocean Surface and Atmospheric Boundary Layer Processes. Frontiers in Marine Science, 2020, 6, .	2.5	21
42	Introduction to special section on Recent Advances in the Study of Optical Variability in the Nearâ€6urface and Upper Ocean. Journal of Geophysical Research, 2012, 117, .	3.3	19
43	Substantial overnight reaeration by convective cooling discovered in pond ecosystems. Geophysical Research Letters, 2016, 43, 8044-8051.	4.0	19
44	A Multisensor Comparison of Ocean Wave Frequency Spectra from a Research Vessel during the Southern Ocean Gas Exchange Experiment. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2907-2925.	1.3	18
45	Wave breaking in developing and mature seas. Journal of Geophysical Research: Oceans, 2013, 118, 4542-4552.	2.6	18
46	Sea breeze forcing of estuary turbulence and airâ€water CO ₂ exchange. Geophysical Research Letters, 2010, 37, .	4.0	17
47	Analyzing the footprints of nearâ€surface aqueous turbulence: An image processingâ€based approach. Journal of Geophysical Research: Oceans, 2013, 118, 1272-1286.	2.6	16
48	Air–Sea Interaction in the Southern Ocean: Exploring the Height of the Wave Boundary Layer at the Air–Sea Interface. Boundary-Layer Meteorology, 2018, 169, 461-482.	2.3	16
49	Spectral Characteristics of Gravityâ€Capillary Waves, With Connections to Wave Growth and Microbreaking. Journal of Geophysical Research: Oceans, 2018, 123, 4576-4592.	2.6	16
50	Tidal and atmospheric influences on nearâ€surface turbulence in an estuary. Journal of Geophysical Research, 2010, 115, .	3.3	15
51	Variations in Ocean Surface Temperature due to Near-Surface Flow: Straining the Cool Skin Layer. Journal of Physical Oceanography, 2009, 39, 2685-2710.	1.7	14
52	Waveâ€induced light field fluctuations in measured irradiance depth profiles: A wavelet analysis. Journal of Geophysical Research: Oceans, 2014, 119, 1344-1364.	2.6	14
53	Novel Methods for Optically Measuring Whitecaps under Natural Wave-Breaking Conditions in the Southern Ocean. Journal of Atmospheric and Oceanic Technology, 2017, 34, 533-554.	1.3	14
54	Direct measurements of CO2flux in the Greenland Sea. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	13

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55	A Note on the Phillips Spectral Framework for Ocean Whitecaps*. Journal of Physical Oceanography, 2014, 44, 1727-1734.	1.7	13
56	The Impact of Rain on Ocean Surface Waves and Currents. Geophysical Research Letters, 2020, 47, e2020GL087287.	4.0	13
57	Shipboard Wave Measurements in the Southern Ocean. Journal of Atmospheric and Oceanic Technology, 2017, 34, 2113-2126.	1.3	12
58	Blue pigmentation of neustonic copepods benefits exploitation of a prey-rich niche at the air-sea boundary. Scientific Reports, 2018, 8, 11510.	3.3	12
59	Observations of submesoscale eddy-driven heat transport at an ice shelf calving front. Communications Earth & Environment, 2022, 3, .	6.8	11
60	Environmental impact assessment: a multilevel, multi-parametric framework for coastal waters. International Journal of Sustainable Development and Planning, 2018, 13, 1041-1049.	0.7	10
61	On the Variation of the Effective Breaking Strength in Oceanic Sea States. Journal of Physical Oceanography, 2016, 46, 2049-2061.	1.7	9
62	The Ocean's Skin Layer in the Tropics. Journal of Geophysical Research: Oceans, 2019, 124, 59-74.	2.6	9
63	Statistics of surface divergence and their relation to airâ€water gas transfer velocity. Journal of Geophysical Research, 2012, 117, .	3.3	8
64	Thin ice, deep snow and surface flooding in Kotzebue Sound: landfast ice mass balance during two anomalously warm winters and implications for marine mammals and subsistence hunting. Journal of Glaciology, 2021, 67, 1013-1027.	2.2	8
65	Observations of mean and wave orbital flows in the ocean's upper centimetres. Journal of Fluid Mechanics, 2020, 887, .	3.4	8
66	Riverine skin temperature response to subsurface processes in low wind speeds. Journal of Geophysical Research: Oceans, 2016, 121, 1721-1735.	2.6	7
67	Air-Water Flux Reconciliation Between the Atmospheric CO2 Profile and Mass Balance Techniques. Environmental Science and Engineering, 2007, , 181-192.	0.2	7
68	Parsing the Kinetic Energy Budget of the Ocean Surface Mixed Layer. Geophysical Research Letters, 2022, 49, e2021GL095920.	4.0	6
69	Water wave measurement from stereo images of specular reflections. Measurement Science and Technology, 2015, 26, 115401.	2.6	5
70	The Winter Heat Budget of Sea Ice in Kotzebue Sound: Residual Ocean Heat and the Seasonal Roles of River Outflow. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016784.	2.6	5
71	The Impact of Wind Gusts on the Ocean Thermal Skin Layer. Geophysical Research Letters, 2019, 46, 11301-11309.	4.0	4
72	Bioindicators as a tool in environmental impact assessment: Cyanobacteria as a sentinel of pollution. International Journal of Sustainable Development and Planning, 2019, 14, 1-8.	0.7	4

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73	Sea Ice Freeboard in the Ross Sea from Airborne Altimetry IcePod 2016–2017 and a Comparison with IceBridge 2013 and ICESat 2003–2008. Remote Sensing, 2020, 12, 2226.	4.0	3
74	Salinity response to atmospheric forcing of the Terra Nova Bay polynya, Antarctica. Antarctic Science, 2021, 33, 318-331.	0.9	3
75	Inferences to Be Drawn from a Consideration of Power-Law Descriptions of Multiple Data Sets Each Comprised of Whitecap Coverage, WB, and 10-m Elevation Wind Speed Measurements (U10). , 2020, , 43-63.		2
76	Super Sites for Advancing Understanding of the Oceanic and Atmospheric Boundary Layers. Marine Technology Society Journal, 2021, 55, 144-145.	0.4	1
77	Resilience Indicators and Monitoring: An Example of Climate Change Resiliency Indicators for Jamaica Bay. , 2016, , 141-165.		1