

Thomas C Weber

List of Publications by Year in descending order

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36
papers

1,069
citations

567281

15
h-index

414414

32
g-index

39
all docs

39
docs citations

39
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	A CFAR Detection Approach for Identifying Gas Bubble Seeps With Multibeam Echo Sounders. IEEE Journal of Oceanic Engineering, 2021, 46, 1346-1355.	3.8	7
2	Shipboard Acoustic Observations of Flow Rate From a Seafloor-Sourced Oil Spill. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016274.	2.6	5
3	Tracking the spatiotemporal variability of the oxic-anoxic interface in the Baltic Sea with broadband acoustics. ICES Journal of Marine Science, 2020, 77, 2814-2824.	2.5	5
4	Tests of Acoustic Target Strength and Bubble Dissolution Models Using a Synthetic Bubble Generator. Journal of Atmospheric and Oceanic Technology, 2020, 37, 129-140.	1.3	4
5	External and internal grouping characteristics of juvenile walleye pollock in the Eastern Bering Sea. Aquatic Living Resources, 2019, 32, 19.	1.2	2
6	Broadband acoustic scattering from oblate hydrocarbon droplets. Journal of the Acoustical Society of America, 2019, 146, 1176-1188.	1.1	4
7	Toward a standard line for use in multibeam echo sounder calibration. Marine Geophysical Researches, 2018, 39, 75-87.	1.2	11
8	Acoustically relevant properties of four crude oils at oceanographic temperatures and pressures. Journal of the Acoustical Society of America, 2018, 144, 2926-2936.	1.1	7
9	Acoustic mapping of mixed layer depth. Ocean Science, 2018, 14, 503-514.	3.4	15
10	Improved Visualization of Hydroacoustic Plumes Using the Split-Beam Aperture Coherence. Sensors, 2018, 18, 2033.	3.8	5
11	An extended surface target for high-frequency multibeam echo sounder calibration. Journal of the Acoustical Society of America, 2017, 141, EL388-EL394.	1.1	7
12	Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean. Scientific Reports, 2017, 7, 15192.	3.3	27
13	Ephemerality of discrete methane vents in lake sediments. Geophysical Research Letters, 2016, 43, 4374-4381.	4.0	32
14	Observing the ocean interior in support of integrated management. ICES Journal of Marine Science, 2016, 73, 1947-1954.	2.5	6
15	Determining the flux of methane into Hudson Canyon at the edge of methane clathrate hydrate stability. Geochemistry, Geophysics, Geosystems, 2016, 17, 3882-3892.	2.5	19
16	Observations of backscatter from sand and gravel seafloors between 170 and 250 kHz. Journal of the Acoustical Society of America, 2015, 138, 2169-2180.	1.1	21
17	Split-beam echo sounder observations of natural methane seep variability in the northern Gulf of Mexico. Geochemistry, Geophysics, Geosystems, 2015, 16, 736-750.	2.5	21
18	Assessment of trawlable and untrawlable seafloor using multibeam-derived metrics. Methods in Oceanography, 2015, 12, 18-35.	1.6	20

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19	Acoustic estimates of methane gas flux from the seabed in a 6000 km ² region in the Northern Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1911-1925.	2.5	78
20	A review of oceanographic applications of water column data from multibeam echosounders. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 145, 41-56.	2.1	109
21	Near resonance acoustic scattering from organized schools of juvenile Atlantic bluefin tuna (<i>Thunnus thynnus</i>). <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3802-3812.	1.1	8
22	Seabed classification for trawlability determined with a multibeam echo sounder on Snakehead Bank in the Gulf of Alaska. <i>Fishery Bulletin</i> , 2013, 111, .	0.2	3
23	On the use of omnidirectional sonars and downwards-looking echosounders to assess pelagic fish distributions during and after midwater trawling. <i>ICES Journal of Marine Science</i> , 2013, 70, 196-203.	2.5	8
24	Scientific basis for safely shutting in the Macondo Well after the April 20, 2010 Deepwater Horizon blowout. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20268-20273.	7.1	35
25	Estimating oil concentration and flow rate with calibrated vessel-mounted acoustic echo sounders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20240-20245.	7.1	36
26	A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico. <i>Science</i> , 2011, 331, 312-315.	12.6	420
27	Detection of deep water benthic macroalgae using image-based classification techniques on multibeam backscatter at Cashes Ledge, Gulf of Maine, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 91, 87-101.	2.1	44
28	Consistency in statistical moments as a test for bubble cloud clustering. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3396-3405.	1.1	1
29	Underwater Tracking of Humpback Whales (<i>Megaptera Novaeangliae</i>) With High-Frequency Pingers and Acoustic Recording Tags. <i>IEEE Journal of Oceanic Engineering</i> , 2010, 35, 821-836.	3.8	11
30	Consecutive acoustic observations of an Atlantic herring school in the Northwest Atlantic. <i>ICES Journal of Marine Science</i> , 2009, 66, 1270-1277.	2.5	25
31	Measurements of acoustic backscatter and density of captive Atlantic cod with synchronized 300-kHz multibeam and 120-kHz split-beam echosounders. <i>ICES Journal of Marine Science</i> , 2009, 66, 1303-1309.	2.5	9
32	Observations of clustering inside oceanic bubble clouds and the effect on short-range acoustic propagation. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 2783-2792.	1.1	11
33	Acoustic Positioning and Tracking in Portsmouth Harbor, New Hampshire. , 2007, , .		3
34	Acoustic Propagation Through Clustered Bubble Clouds. <i>IEEE Journal of Oceanic Engineering</i> , 2007, 32, 513-523.	3.8	6
35	Acoustic scattering from mud volcanoes and carbonate mounds. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 3553-3565.	1.1	23
36	An estimate of the gas transfer rate from oceanic bubbles derived from multibeam sonar observations of a ship wake. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	17