

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 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
2	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
3	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
4	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
5	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
6	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
7	Ephemerality of discrete methane vents in lake sediments. <i>Geophysical Research Letters</i> , 2016, 43, 4374-4381.	4.0	32
8	Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean. <i>Scientific Reports</i> , 2017, 7, 15192.	3.3	27
9	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
10	Acoustic scattering from mud volcanoes and carbonate mounds. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 3553-3565.	1.1	23
11	Observations of backscatter from sand and gravel seafloors between 170 and 250 kHz. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 2169-2180.	1.1	21
12	Split-beam echo sounder observations of natural methane seep variability in the northern Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 736-750.	2.5	21
13	Assessment of trawlable and untrawlable seafloor using multibeam-derived metrics. <i>Methods in Oceanography</i> , 2015, 12, 18-35.	1.6	20
14	Determining the flux of methane into Hudson Canyon at the edge of methane clathrate hydrate stability. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3882-3892.	2.5	19
15	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
16	Acoustic mapping of mixed layer depth. <i>Ocean Science</i> , 2018, 14, 503-514.	3.4	15
17	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
18	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

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19	Toward a standard line for use in multibeam echo sounder calibration. <i>Marine Geophysical Researches</i> , 2018, 39, 75-87.	1.2	11
20	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
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	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
23	An extended surface target for high-frequency multibeam echo sounder calibration. <i>Journal of the Acoustical Society of America</i> , 2017, 141, EL388-EL394.	1.1	7
24	Acoustically relevant properties of four crude oils at oceanographic temperatures and pressures. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2926-2936.	1.1	7
25	A CFAR Detection Approach for Identifying Gas Bubble Seeps With Multibeam Echo Sounders. <i>IEEE Journal of Oceanic Engineering</i> , 2021, 46, 1346-1355.	3.8	7
26	Acoustic Propagation Through Clustered Bubble Clouds. <i>IEEE Journal of Oceanic Engineering</i> , 2007, 32, 513-523.	3.8	6
27	Observing the ocean interior in support of integrated management. <i>ICES Journal of Marine Science</i> , 2016, 73, 1947-1954.	2.5	6
28	Improved Visualization of Hydroacoustic Plumes Using the Split-Beam Aperture Coherence. <i>Sensors</i> , 2018, 18, 2033.	3.8	5
29	Shipboard Acoustic Observations of Flow Rate From a Seafloor-Sourced Oil Spill. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016274.	2.6	5
30	Tracking the spatiotemporal variability of the oxic-anoxic interface in the Baltic Sea with broadband acoustics. <i>ICES Journal of Marine Science</i> , 2020, 77, 2814-2824.	2.5	5
31	Broadband acoustic scattering from oblate hydrocarbon droplets. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 1176-1188.	1.1	4
32	Tests of Acoustic Target Strength and Bubble Dissolution Models Using a Synthetic Bubble Generator. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 129-140.	1.3	4
33	Acoustic Positioning and Tracking in Portsmouth Harbor, New Hampshire. , 2007, , .		3
34	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
35	External and internal grouping characteristics of juvenile walleye pollock in the Eastern Bering Sea. <i>Aquatic Living Resources</i> , 2019, 32, 19.	1.2	2
36	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