

Larry Mayer

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.

137
papers

7,633
citations

41
h-index

86
g-index

167
ext. papers

8,582
ext. citations

5
avg. IF

5.45
L-index

#	Paper	IF	Citations
137	Elevated circulating levels of tumor necrosis factor in severe chronic heart failure. <i>New England Journal of Medicine</i> , 1990 , 323, 236-41	59.2	2074
136	The International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	716
135	An improved bathymetric portrayal of the Arctic Ocean: Implications for ocean modeling and geological, geophysical and oceanographic analyses. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	359
134	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. <i>Geophysical Research Letters</i> , 2017 , 44, 11051-11061	4.9	343
133	The early Miocene onset of a ventilated circulation regime in the Arctic Ocean. <i>Nature</i> , 2007 , 447, 986-90	50.4	175
132	Shallow-water imaging multibeam sonars: A new tool for investigating seafloor processes in the coastal zone and on the continental shelf. <i>Marine Geophysical Researches</i> , 1996 , 18, 607-629	2.3	157
131	Arctic Ocean glacial history. <i>Quaternary Science Reviews</i> , 2014 , 92, 40-67	3.9	149
130	The Nippon Foundation-IBCO Seabed 2030 Project: The Quest to See the World's Oceans Completely Mapped by 2030. <i>Geosciences (Switzerland)</i> , 2018 , 8, 63	2.7	148
129	The morphology and tectonics of the Mark area from Sea Beam and Sea MARC I observations (Mid-Atlantic Ridge 23°N). <i>Marine Geophysical Researches</i> , 1988 , 10, 59-90	2.3	137
128	Seabed characterization on the New Jersey middle and outer shelf: correlatability and spatial variability of seafloor sediment properties. <i>Marine Geology</i> , 2004 , 209, 147-172	3.3	126
127	Remote estimation of surficial seafloor properties through the application Angular Range Analysis to multibeam sonar data. <i>Marine Geophysical Researches</i> , 2007 , 28, 119-126	2.3	124
126	Angular range analysis of acoustic themes from Stanton Banks Ireland: A link between visual interpretation and multibeam echosounder angular signatures. <i>Applied Acoustics</i> , 2009 , 70, 1298-1304	3.1	114
125	Evidence for an ice shelf covering the central Arctic Ocean during the penultimate glaciation. <i>Nature Communications</i> , 2016 , 7, 10365	17.4	102
124	Large-scale current-induced erosion and deposition in the path of the 1929 Grand Banks turbidity current. <i>Sedimentology</i> , 1990 , 37, 613-629	3.3	93
123	Exceptionally strong near-bottom flows on the continental rise of nova scotia. <i>Science</i> , 1981 , 213, 887-893	33.3	92
122	An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. <i>Quaternary Science Reviews</i> , 2010 , 29, 3505-3517	3.9	91
121	High-resolution swath sonar investigation of sand ridge, dune and ribbon morphology in the offshore environment of the New Jersey margin. <i>Marine Geology</i> , 1999 , 161, 307-337	3.3	85

120	Chirp subbottom profiler for quantitative sediment analysis. <i>Geophysics</i> , 1989 , 54, 445-450	3.1	83
119	Protocols for calibrating multibeam sonar. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 2013-272		80
118	Marine sediment classification using the chirp sonar. <i>Journal of the Acoustical Society of America</i> , 1992 , 91, 107-115	2.2	78
117	Lakes of the Huron basin: their record of runoff from the Laurentide ice sheet. <i>Quaternary Science Reviews</i> , 1994 , 13, 891-922	3.9	76
116	Detailed investigation of sorted bedforms, or ripple scour depressions, within the Martha's Vineyard Coastal Observatory, Massachusetts. <i>Continental Shelf Research</i> , 2005 , 25, 461-484	2.4	74
115	Detailed investigation of continental shelf morphology using a high-resolution swath sonar survey: the Eel margin, northern California. <i>Marine Geology</i> , 1999 , 154, 255-269	3.3	69
114	Geophysical insights into the Transition fault debate: Propagating strike slip in response to stalling Yakutat block subduction in the Gulf of Alaska. <i>Geology</i> , 2007 , 35, 763	5	65
113	Frontiers in Seafloor Mapping and Visualization. <i>Marine Geophysical Researches</i> , 2006 , 27, 7-17	2.3	65
112	Seafloor Mapping – The Challenge of a Truly Global Ocean Bathymetry. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	64
111	Dense biological communities at 3850 m on the Laurentian Fan and their relationship to the deposits of the 1929 Grand Banks earthquake. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988 , 35, 1235-1246		63
110	Paleoseismology of the Palu-Lake Hazar segment of the East Anatolian Fault Zone, Turkey. <i>Tectonophysics</i> , 2003 , 374, 163-197	3.1	62
109	Post-glacial flooding of the Bering Land Bridge dated to 11 cal ka BP based on new geophysical and sediment records. <i>Climate of the Past</i> , 2017 , 13, 991-1005	3.9	60
108	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	3.6	60
107	Morphology, volcanism, and mass wasting in Crater Lake, Oregon. <i>Bulletin of the Geological Society of America</i> , 2002 , 114, 675-692	3.9	55
106	Extraction of high-resolution carbonate data for palaeoclimate reconstruction. <i>Nature</i> , 1991 , 352, 148-150.	50.4	53
105	Giant flute-like scour and other erosional features formed by the 1929 Grand Banks turbidity current. <i>Sedimentology</i> , 1990 , 37, 631-645	3.3	52
104	3D visualization for pelagic fisheries research and assessment. <i>ICES Journal of Marine Science</i> , 2002 , 59, 216-225	2.7	50
103	Stratigraphy and paleolimnologic record of lower Holocene sediments in northern Lake Huron and Georgian Bay. <i>Canadian Journal of Earth Sciences</i> , 1994 , 31, 1586-1605	1.5	49

102	An integrated approach to flood hazard assessment on alluvial fans using numerical modeling, field mapping, and remote sensing. <i>Bulletin of the Geological Society of America</i> , 2005 , 117, 1167	3.9	48
101	Acoustic backscatter of the 1995 flood deposit on the Eel shelf. <i>Marine Geology</i> , 1999 , 154, 197-210	3.3	48
100	Multibeam bathymetric and sediment profiler evidence for ice grounding on the Chukchi Borderland, Arctic Ocean. <i>Quaternary Research</i> , 2005 , 63, 150-160	1.9	45
99	Great Lakes paleohydrology: Complex interplay of glacial meltwater, lake levels, and sill depths. <i>Geology</i> , 1994 , 22, 1059	5	45
98	Drowned shelf-edge deltas, barrier islands and related features along the outer continental shelf north of the head of De Soto Canyon, NE Gulf of Mexico. <i>Geomorphology</i> , 2007 , 89, 370-390	4.3	43
97	The high-frequency backscattering angular response of gassy sediments: model/data comparison from the Eel River Margin, California. <i>Journal of the Acoustical Society of America</i> , 2002 , 111, 2621-31	2.2	42
96	Geomorphology, acoustic backscatter, and processes in Santa Monica Bay from multibeam mapping. <i>Marine Environmental Research</i> , 2003 , 56, 15-46	3.3	39
95	First bedrock samples dredged from submarine outcrops in the Chukchi Borderland, Arctic Ocean 2015 , 11, 76-92		38
94	Seismic stratigraphy of Lake Huron (Georgian Bay) and postglacial lake level history. <i>Canadian Journal of Earth Sciences</i> , 1994 , 31, 1606-1617	1.5	38
93	Shelf-edge deltas and drowned barrier island complexes on the northwest Florida outer continental shelf. <i>Geomorphology</i> , 2005 , 64, 133-166	4.3	37
92	The International Bathymetric Chart of the Arctic Ocean Version 4.0. <i>Scientific Data</i> , 2020 , 7, 176	8.2	37
91	Furrowed mud waves on the western Bermuda Rise. <i>Bulletin of the Geological Society of America</i> , 1980 , 91, 731	3.9	34
90	Construction of seafloor thematic maps from multibeam acoustic backscatter angular response data. <i>Computers and Geosciences</i> , 2012 , 41, 181-187	4.5	32
89	The origin of fine scale acoustic stratigraphy in deep-sea carbonates. <i>Journal of Geophysical Research</i> , 1979 , 84, 6177		32
88	Organic carbon deposition on the North Carolina continental slope off Cape Hatteras (USA). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002 , 49, 4687-4709	2.3	31
87	Deep-sea carbonates: Physical property relationships and the origin of high-frequency acoustic reflectors. <i>Marine Geology</i> , 1980 , 38, 165-183	3.3	30
86	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, 20240-5	11.5	29
85	Mapping supports potential submission to U.N. Law of the Sea. <i>Eos</i> , 2006 , 87, 157	1.5	28

84	The Holocene retreat dynamics and stability of Petermann Glacier in northwest Greenland. <i>Nature Communications</i> , 2018 , 9, 2104	17.4	27
83	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, 20268-73	11.5	26
82	Dissolution of biogenic ooze over basement edifices in the equatorial Pacific with implications for hydrothermal ventilation of the oceanic crust. <i>Geology</i> , 2007 , 35, 679	5	25
81	High-Resolution Mapping of Mines and Ripples at the Martha's Vineyard Coastal Observatory. <i>IEEE Journal of Oceanic Engineering</i> , 2007 , 32, 133-149	3.3	24
80	Commercial fishing vessels, automatic acoustic logging systems and 3D data visualization. <i>ICES Journal of Marine Science</i> , 2002 , 59, 179-189	2.7	22
79	A detailed seabed signature from Hurricane Sandy revealed in bedforms and scour. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4334-4340	3.6	21
78	Mapping submarine glacial landforms using acoustic methods. <i>Geological Society Memoir</i> , 2016 , 46, 17-40	4.4	21
77	Active tectonics of the Loreto area, Baja California Sur, Mexico. <i>Geomorphology</i> , 1999 , 27, 243-255	4.3	20
76	Erosional troughs in deep-sea carbonates and their relationship to basement structure. <i>Marine Geology</i> , 1981 , 39, 59-80	3.3	19
75	Calculation of acoustic parameters by a filter-correlation method. <i>Journal of the Acoustical Society of America</i> , 1993 , 93, 1145-1154	2.2	18
74	A Bathymetry- and Reflectivity-Based Approach for Seafloor Segmentation. <i>Geosciences (Switzerland)</i> , 2018 , 8, 14	2.7	17
73	Sediment identification using free fall penetrometer acceleration-time histories. <i>Marine Geophysical Researches</i> , 2011 , 32, 397-411	2.3	17
72	Mine Burial Experiments at the Martha's Vineyard Coastal Observatory. <i>IEEE Journal of Oceanic Engineering</i> , 2007 , 32, 150-166	3.3	16
71	Use of packrat middens to determine rates of cliff retreat in the eastern Grand Canyon, Arizona. <i>Geology</i> , 1982 , 10, 597	5	16
70	An Automatic Procedure for the Quantitative Characterization of Submarine Bedforms. <i>Geosciences (Switzerland)</i> , 2018 , 8, 28	2.7	16
69	Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland. <i>Quaternary Science Reviews</i> , 2019 , 218, 322-342	3.9	15
68	Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean. <i>Scientific Reports</i> , 2017 , 7, 15192	4.9	15
67	Investigation of seabed fishing impacts on benthic structure using multi-beam sonar, sidescan sonar, and video. <i>ICES Journal of Marine Science</i> , 2007 , 64, 1053-1065	2.7	15

66	A wideband acoustic method for direct assessment of bubble-mediated methane flux. <i>Continental Shelf Research</i> , 2019 , 173, 104-115	2.4	15
65	High resolution mapping of offshore and onshore glaciogenic features in metamorphic bedrock terrain, Melville Bay, northwestern Greenland. <i>Geomorphology</i> , 2015 , 250, 29-40	4.3	14
64	Scientific Challenges and Present Capabilities in Underwater Robotic Vehicle Design and Navigation for Oceanographic Exploration Under-Ice. <i>Remote Sensing</i> , 2020 , 12, 2588	5	14
63	The De Long Trough: a newly discovered glacial trough on the East Siberian continental margin. <i>Climate of the Past</i> , 2017 , 13, 1269-1284	3.9	13
62	Swath Mapping on the Continental Shelf and Slope: The Eel River Basin, Northern California. <i>Oceanography</i> , 1996 , 9, 178-182	2.3	13
61	A framework to quantify uncertainties of seafloor backscatter from swath mapping echosounders. <i>Marine Geophysical Researches</i> , 2018 , 39, 151-168	2.3	12
60	Core-log-seismic integration as a framework for determining the basin-wide significance of regional reflectors in the eastern equatorial Pacific. <i>Geophysical Research Letters</i> , 1997 , 24, 321-324	4.9	12
59	Acoustic properties of fine-grained sediments from Emerald Basin: Toward an inversion for physical properties using the Biot-Stoll model. <i>Journal of the Acoustical Society of America</i> , 1993 , 93, 3193-3200	2.2	12
58	Hydraulic piston coring of late Neogene and Quaternary sections in the Caribbean and equatorial Pacific: Preliminary results of Deep Sea Drilling Project Leg 68. <i>Bulletin of the Geological Society of America</i> , 1980 , 91, 433	3.9	12
57	Bathymetry and oceanic flow structure at two deep passages crossing the Lomonosov Ridge. <i>Ocean Science</i> , 2018 , 14, 1-13	4	12
56	Multibeam sonar backscatter lineaments and anthropogenic organic components in lacustrine silty clay, evidence of shipping in western Lake Ontario. <i>International Journal of Coal Geology</i> , 2000 , 43, 307-324	5.5	10
55	Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. <i>Communications Earth & Environment</i> , 2020 , 1,	6.1	10
54	Glacial sedimentation, fluxes and erosion rates associated with ice retreat in Petermann Fjord and Nares Strait, north-west Greenland. <i>Cryosphere</i> , 2020 , 14, 261-286	5.5	9
53	Geological interpretation of a low-backscatter anomaly found on the New Jersey continental margin. <i>Marine Geology</i> , 2012 , 326-328, 46-54	3.3	9
52	Deep-sea Geo-referenced Video Mosaics 2006 ,		9
51	In-Situ Determination of the Variability of Seafloor Acoustic Properties: An Example from the Onr Geoclutter Area 2002 , 115-122		9
50	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	2.7	8
49	Evolution of a benthic imaging system from a towed camera to an automated habitat characterization system 2008 ,		8

48	Fractal characteristics of desert storm sequences and implications for geomorphic studies. <i>Geomorphology</i> , 1992 , 5, 167-183	4.3	8
47	Standardized Geomorphic Classification of Seafloor Within the United States Atlantic Canyons and Continental Margin. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	7
46	Application of landscape mosaics for the assessment of subtidal macroalgae communities using the CFR index. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014 , 106, 207-215	2.3	7
45	Design of Nereid-UI: A remotely operated underwater vehicle for oceanographic access under ice 2014 ,		7
44	Derivation of $\delta^{18}O$ from sediment core log data: Implications for millennial-scale climate change in the Labrador Sea. <i>Paleoceanography</i> , 2001 , 16, 503-514		7
43	Acoustic mapping of mixed layer depth. <i>Ocean Science</i> , 2018 , 14, 503-514	4	7
42	Stratigraphic Model Predictions of Geoacoustic Properties. <i>IEEE Journal of Oceanic Engineering</i> , 2006 , 31, 266-283	3.3	6
41	Data structures for fast searching of SEG-Y seismic data. <i>Computers and Geosciences</i> , 1999 , 25, 179-190	4.5	6
40	A deep scattering layer under the North Pole pack ice. <i>Progress in Oceanography</i> , 2021 , 194, 102560	3.8	6
39	Deep-sea image processing		5
38	Three-dimensional visualization of orbital forcing and climatic response: Interactively exploring the pacemaker of the ice ages. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996 , 85, 505-512		5
37	Downhole Logging as a Paleoceanographic Tool on Ocean Drilling Program Leg 138: Interface Between High-Resolution Stratigraphy and Regional Syntheses. <i>Paleoceanography</i> , 1992 , 7, 691-700		5
36	Inventory and comparative evaluation of seabed mapping, classification and modeling activities in the Northwest Atlantic, USA to support regional ocean planning. <i>Journal of Sea Research</i> , 2015 , 100, 133-140	1.9	4
35	Basalts From the Chukchi Borderland: $^{40}Ar/^{39}Ar$ Ages and Geochemistry of Submarine Intraplate Lavas Dredged From the Western Arctic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB017604	3.6	4
34	The effect of two 12 kHz multibeam mapping surveys on the foraging behavior of Cuvier's beaked whales off of southern California. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 3849	2.2	4
33	Evaluation of arctic multibeam sonar data quality using nadir crossover error analysis and compilation of a full-resolution data product. <i>Computers and Geosciences</i> , 2014 , 66, 228-236	4.5	4
32	Acoustic Sensing of Gas Seeps in the Deep Ocean with Split-beam Echosounders 2012 ,		4
31	Lightly tethered unmanned underwater vehicle for under-ice exploration 2012 ,		4

30	Sediment mixing in the tropical Pacific and radiolarian stratigraphy. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	4
29	Enhanced Acoustic Backscatter Due to High Abundance of Sand Dollars, <i>Dendraster excentricus</i> . <i>Marine Georesources and Geotechnology</i> , 2001 , 19, 135-145	2.2	4
28	Cenozoic paleoceanography 1986: An introduction. <i>Paleoceanography</i> , 1987 , 2, 613-623		4
27	Modelling of PliocenePleistocene abyssal mudwaves using synthetic seismograms. <i>Marine Geology</i> , 1998 , 149, 3-16	3.3	3
26	The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. <i>Cryosphere</i> , 2021 , 15, 4073-4097	4.9	3
25	Mass wasting on Alpha Ridge in the Arctic Ocean: new insights from multibeam bathymetry and sub-bottom profiler data. <i>Geological Society Special Publication</i> , 2020 , 500, 323-340	1.7	2
24	Applications of the Gulf of Maine Operational Forecast System to Enhance Spatio-Temporal Oceanographic Awareness for Ocean Mapping. <i>Frontiers in Marine Science</i> , 2020 , 6,	4.5	2
23	Nereid UI: A Light-Tethered Remotely Operated Vehicle for Under-Ice Telepresence 2012 ,		2
22	Acoustic transducer calibration system 2003 ,		2
21	Enhanced Acoustic Backscatter Due to High Abundance of Sand Dollars, <i>Dendraster excentricus</i> . <i>Marine Georesources and Geotechnology</i> , 2001 , 19, 135-145	2.2	2
20	Contributions from the oceanic record to the study of global change on three time scalesReport of working group 1, interlaken workshop for past global changes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1990 , 82, 5-37	2.9	2
19	Teaching the Use of Geological Equipment with a Microcomputer. <i>Journal of Geoscience Education</i> , 1987 , 35, 266-270		2
18	Chatham Fan and adjacent upper Baranof Fan channels and levee, US Gulf of Alaska margin. <i>Geological Society Memoir</i> , 2016 , 46, 387-388	0.4	2
17	Acoustic mapping of mixed layer depth 2018 ,		2
16	Tracking the spatiotemporal variability of the oxicAnoxic interface in the Baltic Sea with broadband acoustics. <i>ICES Journal of Marine Science</i> , 2020 , 77, 2814-2824	2.7	1
15	Glacial landforms in a hard bedrock terrain, Melville Bay, northwestern Greenland. <i>Geological Society Memoir</i> , 2016 , 46, 201-202	0.4	1
14	Acoustic Positioning and Tracking in Portsmouth Harbor, New Hampshire 2007 ,		1
13	WBANDZ: A C program to calibrate the hydrologic model and calculate monthly water balance and Palmer's Z-index. <i>Computers and Geosciences</i> , 1993 , 19, 1267-1283	4.5	1

12	Bubble vent localization for marine hydrocarbon seep surveys. <i>Interpretation</i> , 2022 , 10, SB107-SB128	1.4	1
11	Three-dimensional visualization of orbital forcing and climatic response: interactively exploring the pacemaker of the ice ages. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996 , 85, 505		1
10	Fine-scale mapping of deep-sea habitat-forming species densities reveals taxonomic specific environmental drivers. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1286-1298	6.1	1
9	An ultrahigh-latitude submarine channel: Northern Chukchi Rise. <i>Geological Society Memoir</i> , 2016 , 46, 391-392	0.4	1
8	Yin and Yang of mucosal immunology. <i>Transplantation Proceedings</i> , 1996 , 28, 2435-7	1.1	1
7	A global geographic grid system for visualizing bathymetry. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020 , 9, 375-384	1.5	0
6	Cascades and plunge pools on the continental slope of the Gulf of Alaska. <i>Geological Society Memoir</i> , 2016 , 46, 389-390	0.4	0
5	Surface, Subsurface, and Deep Imaging: Acquisition, Processing, and Interpretation of Seismic and Acoustic Data. <i>Energy Exploration and Exploitation</i> , 2003 , 21, 303-307	2.1	
4	Microtopographic evolution of mineral surfaces as a tool to identify and date young fault scarps in bedrock. <i>Journal of Geodynamics</i> , 2000 , 29, 393-406	2.2	
3	Effect of storm clustering on water balance estimates and its implications for climate impact assessment. <i>Climatic Change</i> , 1994 , 27, 321-342	4.5	
2	Comments and Replies on Use of packrat middens to determine rates of cliff retreat in the eastern Grand Canyon, Arizona. <i>Geology</i> , 1983 , 11, 314	5	
1	Geomorphology and microhabitats of large, isolated, immobile bedforms in the Great South Channel, Northwest Atlantic Ocean 2020 , 503-518		