Peter G Brewer

List of Publications by Year
in descending order

136 papers	9,626 citations	30070 54 h-index	38395 95 g-index
141 all docs	141 docs citations	141 times ranked	6301 citing authors

#	Article	IF	Citations
1	Life at low Reynolds number Re-visited: The efficiency of microbial propulsion. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 185, 103790.	1.4	2
2	Thank You to Our 2020 Reviewers. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017288.	2.6	0
3	Life at low Reynolds Number Re-visited: The apparent activation energy of viscous flow in sea water. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 176, 103592.	1.4	5
4	Thank You to Our 2019 Reviewers. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016312.	2.6	0
5	The Molecular Basis for Understanding the Impacts of Ocean Warming. Reviews of Geophysics, 2019, 57, 1112-1123.	23.0	5
6	The Molecular Basis for the Heat Capacity and Thermal Expansion of Natural Waters. Geophysical Research Letters, 2019, 46, 13227-13233.	4.0	11
7	How Much H 2 O Is There in the Ocean? The Structure of Water in Sea Water. Journal of Geophysical Research: Oceans, 2019, 124, 212-226.	2.6	10
8	Thank You to Our 2017 Peer Reviewers. Journal of Geophysical Research: Oceans, 2018, 123, 6042-6052.	2.6	0
9	The speciation of water in sea water and in gelatinous marine animals. Marine Chemistry, 2017, 195, 94-104.	2.3	11
10	Ocean ventilation and deoxygenation in a warming world: posters. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170241.	3.4	1
11	Depth perception: the need to report ocean biogeochemical rates as functions of temperature, not depth. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160319.	3.4	34
12	Ocean ventilation and deoxygenation in a warming world: introduction and overview. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170240.	3.4	34
13	Celebrating 30 Years of Ocean Science and Technology at the Monterey Bay Aquarium Research Institute. Oceanography, 2017, 30, 18-25.	1.0	30
14	Creating the Art of Deep-Sea Experimental Chemistry with MBARI ROVs. Oceanography, 2017, 30, 48-59.	1.0	0
15	Editorial: Proposing a Special Section. Journal of Geophysical Research: Oceans, 2016, 121, 2860-2861.	2.6	0
16	The key to efficient RO desalination. Filtration and Separation, 2016, 53, 20-22.	0.0	1
17	In situ Raman measurement of HSâˆ' and H2S in sediment pore waters and use of the HSâˆ':H2S ratio as an indicator of pore water pH. Marine Chemistry, 2016, 184, 32-42.	2.3	34
18	Ocean chemistry, ocean warming, and emerging hypoxia: Commentary. Journal of Geophysical Research: Oceans, 2016, 121, 3659-3667.	2.6	30

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19	Eel Canyon Slump Scar and Associated Fluid Venting. Advances in Natural and Technological Hazards Research, 2016, , 411-418.	1.1	6
20	Design, construction, and operation of an actively controlled deep-sea CO 2 enrichment experiment using a cabled observatory system. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 97, 1-9.	1.4	6
21	Ocean chemistry and the speed of sound in seawater. Marine Chemistry, 2015, 177, 591-606.	2.3	9
22	Free-ocean CO₂ enrichment (FOCE) systems: present status and future developments. Biogeosciences, 2014, 11, 4057-4075.	3.3	51
23	Arctic shelf methane sounds alarm. Nature Geoscience, 2014, 7, 6-7.	12.9	3
24	Evaluating microbial chemical choices: The ocean chemistry basis for the competition between use of O2 or NO3â˜ as an electron acceptor. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 87, 35-42.	1.4	18
25	Deep-Sea Field Test of the CH₄ Hydrate to CO₂ Hydrate Spontaneous Conversion Hypothesis. Energy & Fuels, 2014, 28, 7061-7069.	5.1	24
26	Use of a Free Ocean CO₂ Enrichment (FOCE) System to Evaluate the Effects of Ocean Acidification on the Foraging Behavior of a Deep-Sea Urchin. Environmental Science & Technology, 2014, 48, 9890-9897.	10.0	48
27	A Plea for Temperature in Descriptions of the Oceanic Oxygen Status. Oceanography, 2014, 27, 160-167.	1.0	11
28	Progress in Controlled In Situ Ocean Acidification Experiments. Eos, 2013, 94, 152-152.	0.1	0
29	A different ocean acidification hazardâ€"The Kolumbo submarine volcano example. Geology, 2013, 41, 1039-1040.	4.4	4
30	High-Resolution Topography-Following Chemical Mapping of Ocean Hypoxia by Use of an Autonomous Underwater Vehicle: The Santa Monica Basin Example. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2630-2646.	1.3	2
31	A short-term in situ CO2 enrichment experiment on Heron Island (GBR). Scientific Reports, 2012, 2, 413.	3.3	104
32	A Review of Advances in Deep-Ocean Raman Spectroscopy. Applied Spectroscopy, 2012, 66, 237-249.	2.2	54
33	Microstructure characteristics during hydrate formation and dissociation revealed by X-ray tomographic microscopy. Geo-Marine Letters, 2012, 32, 555-562.	1.1	29
34	In situ Raman probe for quantitative observation of sediment pore waters in the Deep Ocean — Development and applications. , 2011, , .		1
35	In situ Raman-based measurements of high dissolved methane concentrations in hydrate-rich ocean sediments. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	47
36	Hypoxia by degrees: Establishing definitions for a changing ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 1212-1226.	1.4	137

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37	Future ocean increasingly transparent to low-frequency sound owing to carbon dioxideÂemissions. Nature Geoscience, 2010, 3, 18-22.	12.9	47
38	Development and deployment of a deep-sea Raman probe for measurement of pore water geochemistry. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 297-306.	1.4	55
39	Mixed gas hydrate structures at the Chapopote Knoll, southern Gulf of Mexico. Earth and Planetary Science Letters, 2010, 299, 207-217.	4.4	54
40	A changing ocean seen with clarity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12213-12214.	7.1	27
41	Controls on methane bubble dissolution inside and outside the hydrate stability field from open ocean field experiments and numerical modeling. Marine Chemistry, 2009, 114, 19-30.	2.3	110
42	Geochemistry of Chemical Weapon Breakdown Products on the Seafloor: 1,4-Thioxane in Seawater. Environmental Science & Technology, 2009, 43, 610-615.	10.0	19
43	A natural hydrate dissolution experiment on complex multi-component hydrates on the sea floor. Geochimica Et Cosmochimica Acta, 2009, 73, 6747-6756.	3.9	26
44	Clathrate Hydrates in Nature. Annual Review of Marine Science, 2009, 1, 303-327.	11.6	165
45	Limits to Marine Life. Science, 2009, 324, 347-348.	12.6	171
46	The influence of David Keeling on oceanic CO2 measurements. Geophysical Monograph Series, 2009, , 37-48.	0.1	2
47	Unanticipated consequences of ocean acidification: A noisier ocean at lower pH. Geophysical Research Letters, 2008, 35, .	4.0	76
48	What Lies Beneath: A Plea for Complete Information. Environmental Science & Technology, 2008, 42, 1394-1399.	10.0	21
49	Chemical Weapons on the Sea Floor: A Plea for Complete Information. , 2008, , .		2
50	Comment on â€œModernâ€age buildup of CO₂ and its effects on seawater acidity and salinityâ€• by Hugo A. LoÃ¡iciga. Geophysical Research Letters, 2007, 34, .	4.0	36
51	Authigenic carbon entombed in methane-soaked sediments from the northeastern transform margin of the Guaymas Basin, Gulf of California. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 1240-1267.	1.4	57
52	Gas hydrate measurements at Hydrate Ridge using Raman spectroscopy. Geochimica Et Cosmochimica Acta, 2007, 71, 2947-2959.	3.9	122
53	Evaluating a technological fix for climate. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9915-9916.	7.1	23
54	Correction to â€œThree-dimensional acoustic monitoring and modeling of a deep-sea CO2droplet cloudâ€• Geophysical Research Letters, 2007, 34, .	4.0	0

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55	Separation technology: A solution for the sugar industry. Filtration and Separation, 2007, 44, 15-16.	0.0	2
56	Three-dimensional acoustic monitoring and modeling of a deep-sea CO2droplet cloud. Geophysical Research Letters, 2006, 33, .	4.0	29
57	Comment on â€œFate of Rising CO2Droplets in Seawaterâ€• Environmental Science & Technology, 2006, 40, 3653-3654.	10.0	1
58	Raman spectroscopic measurements of synthetic gas hydrates in the ocean. Marine Chemistry, 2006, 98, 304-314.	2.3	68
59	Lessons Learned while Optimizing Instrument Sensitivity for Deep Ocean Raman Spectroscopy. , 2006, , .		1
60	Seeing a Deep Ocean CO2Enrichment Experiment in a New Light:Â Laser Raman Detection of Dissolved CO2in Seawater. Environmental Science & Technology, 2005, 39, 9630-9636.	10.0	48
61	Field Studies on the Formation of Sinking CO2Particles for Ocean Carbon Sequestration:Â Effects of Injector Geometry on Particle Density and Dissolution Rate and Model Simulation of Plume Behavior. Environmental Science & Technology, 2005, 39, 7287-7293.	10.0	25
62	Development and deployment of a precision underwater positioning system for in situ laser Raman spectroscopy in the deep ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2376-2389.	1.4	42
63	First results from a controlled deep sea CO2perturbation experiment: Evidence for rapid equilibration of the oceanic CO2system at depth. Journal of Geophysical Research, 2005, 110, .	3.3	6
64	Deep ocean experiments with fossil fuel carbon dioxide: Creation and sensing of a controlled plume at 4 km depth. Journal of Marine Research, 2005, 63, 9-33.	0.3	33
65	Ocean abyssal carbon experiments at 0.7 and 4 KM depth. , 2005, , 801-808.		1
66	Small Scale Field Study of an Ocean CO2 Plume. Journal of Oceanography, 2004, 60, 751-758.	1.7	29
67	Effects of Direct Ocean CO2 Injection on Deep-Sea Meiofauna. Journal of Oceanography, 2004, 60, 759-766.	1.7	96
68	Hydrate Composite Particles for Ocean Carbon Sequestration:Â Field Verification. Environmental Science & Technology, 2004, 38, 2470-2475.	10.0	35
69	Dissolution rates of pure methane hydrate and carbon-dioxide hydrate in undersaturated seawater at 1000-m depth. Geochimica Et Cosmochimica Acta, 2004, 68, 285-292.	3.9	123
70	Development of a laser Raman spectrometer for deep-ocean science. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 739-753.	1.4	142
71	Raman Spectroscopy in the Deep Ocean: Successes and Challenges. Applied Spectroscopy, 2004, 58, 195A-208A.	2.2	73
72	Progress of COSMOS (CO2 Sending Method for Ocean Storage) and OACE (Ocean Abyssal Carbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1

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73	Laser Raman spectroscopy used to study the ocean at 3600-m depth. Eos, 2002, 83, 469.	0.1	12
74	Measurements of the fate of gas hydrates during transit through the ocean water column. Geophysical Research Letters, 2002, 29, 38-1-38-4.	4.0	39
75	Experimental Determination of the Fate of Rising CO2Droplets in Seawater. Environmental Science & Technology, 2002, 36, 5441-5446.	10.0	74
76	Direct Experiments on the Ocean Disposal of Fossil Fuel CO2. , 2001, , .		0
77	Probing Gas Hydrate Deposits. American Scientist, 2001, 89, 244.	0.1	24
78	A field study of the effects of CO2 ocean disposal on mobile deep-sea animals. Marine Chemistry, 2000, 72, 95-101.	2.3	80
79	Experiments on the ocean sequestration of fossil fuel CO2: pH measurements and hydrate formation. Marine Chemistry, 2000, 72, 83-93.	2.3	58
80	Gas Hydrates and Global Climate Change. Annals of the New York Academy of Sciences, 2000, 912, 195-199.	3.8	23
81	Contemplating Action: Storing Carbon Dioxide in the Ocean. Oceanography, 2000, 13, 84-92.	1.0	12
82	Direct Experiments on the Ocean Disposal of Fossil Fuel CO2. Science, 1999, 284, 943-945.	12.6	329
83	Gas Hydrate Formation in the Deep Sea:Â In Situ Experiments with Controlled Release of Methane, Natural Gas, and Carbon Dioxide. Energy & Fuels, 1998, 12, 183-188.	5.1	94
84	Deep-ocean field test of methane hydrate formation from a remotely operated vehicle. Geology, 1997, 25, 407.	4.4	68
85	Direct observation of the oceanic CO2 increase revisited. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8308-8313.	7.1	50
86	Ocean chemistry of the fossil fuel CO2signal: The haline signal of â€œbusiness as usualâ€. Geophysical Research Letters, 1997, 24, 1367-1369.	4.0	134
87	Measurement of sea surface partial pressure of C02 from a moored buoy. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1175-1186.	1.4	57
88	Development of improved space sampling strategies for ocean chemical properties: Total carbon dioxide and dissolved nitrate. Geophysical Research Letters, 1995, 22, 945-948.	4.0	6
89	ThepH of the North Atlantic Ocean: Improvements to the global model for sound absorption in seawater. Journal of Geophysical Research, 1995, 100, 8761.	3.3	60
90	Some practical aspects of measuring DOC â€" sampling artifacts and analytical problems with marine samples. Marine Chemistry, 1993, 41, 243-252.	2.3	79

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91	Biochemical Properties of the Oceanic Carbon Cycle. , 1993, , 271-297.		28
92	Development of a fiber optic sensor for measurement of pCO2 in sea water: design criteria and sea trials. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, 1015-1026.	1.5	40
93	The carbonate system in the Black Sea. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, S1049-S1068.	1.5	66
94	Carbon Dioxide Transport by Ocean Currents at 25ÂN Latitude in the Atlantic Ocean. Science, 1989, 246, 477-479.	12.6	63
95	High precision measurements of alkalinity and total carbon dioxide in seawater by potentiometric titration â€" 1. Presence of unknown protolyte(s)?. Marine Chemistry, 1988, 23, 69-86.	2.3	76
96	High precision measurements of alkalinity and total carbon dioxide in seawater by potentiometric titration. 2. Measurements on standard solutions. Marine Chemistry, 1988, 24, 155-162.	2.3	34
97	Panel 4: Chemistry at the air-sea interface. Applied Geochemistry, 1988, 3, 37-48.	3.0	2
98	Estimates of wintertime mixed layer nutrient concentrations in the North Atlantic. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 1525-1546.	1.5	99
99	Ocean chemical fluxes 1983â€"1986. Reviews of Geophysics, 1987, 25, 1376-1386.	23.0	7
100	Temporal changes in the hydrography and chemistry of the Cariaco Trench. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 945-963.	1.5	89
101	What Controls the Variability of Carbon Dioxide in the Surface Ocean? A Plea for Complete Information. , 1986, , 215-231.		14
102	Measurements of Total Carbon Dioxide and Alkalinity in the North Atlantic Ocean in 1981. , 1986, , 348-370.		72
103	Rare earth elements in the Pacific and Atlantic Oceans. Geochimica Et Cosmochimica Acta, 1985, 49, 1943-1959.	3.9	652
104	Chemical oceanography of the Persian Gulf. Progress in Oceanography, 1985, 14, 41-55.	3.2	102
105	Anomalies in rare earth distributions in seawater: Gd and Tb. Geochimica Et Cosmochimica Acta, 1985, 49, 1961-1969.	3.9	167
106	The Transient Tracers in the Ocean (TTO) program: The North Atlantic Study, 1981; The Tropical Atlantic Study, 1983. Journal of Geophysical Research, 1985, 90, 6903-6905.	3.3	42
107	Rare-earth distributions with a positive Ce anomaly in the Western North Atlantic Ocean. Nature, 1983, 301, 324-327.	27.8	232
108	Removal of230Th and231Pa from the open ocean. Earth and Planetary Science Letters, 1983, 62, 7-23.	4.4	263

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109	Removal of 230Th and 231Pa at ocean margins. Earth and Planetary Science Letters, 1983, 66, 73-90.	4.4	268
110	Biological Control of the Removal of Abiogenic Particles from the Surface Ocean. Science, 1983, 219, 388-391.	12.6	180
111	A Climatic Freshening of the Deep Atlantic North of 50ÂN over the Past 20 Years. Science, 1983, 222, 1237-1239.	12.6	85
112	Elevated Concentrations of Actinides in Mono Lake. Science, 1982, 216, 514-516.	12.6	60
113	Measurements of total carbon dioxide and alkalinity by potentiometric titration in the GEOSECS program. Earth and Planetary Science Letters, 1981, 55, 99-115.	4.4	190
114	Scavenging residence times of trace metals and surface chemistry of sinking particles in the deep ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1981, 28, 101-121.	1.5	336
115	Effect of nitrogen source and growth rate on phytoplanktonâ€mediated changes in alkalinity1. Limnology and Oceanography, 1980, 25, 352-357.	3.1	126
116	Lead-210, polonium-210, manganese and iron in the Cariaco Trench. Deep-sea Research Part A, Oceanographic Research Papers, 1980, 27, 119-135.	1.5	102
117	Oceanic Elemental Scavenging. ACS Symposium Series, 1979, , 261-274.	0.5	8
118	Direct observation of the oceanic CO₂ increase. Geophysical Research Letters, 1978, 5, 997-1000.	4.0	258
119	Consumption of dissolved methane in the deep ocean 1. Limnology and Oceanography, 1978, 23, 1207-1213.	3.1	85
120	Chapter 10 Mechanisms of Removal of Manganese, Iron and Other Trace Metals from Sea Water. Elsevier Oceanography Series, 1977, 15, 291-325.	0.1	27
121	The marine chemistry of iodine in anoxic basins. Geochimica Et Cosmochimica Acta, 1977, 41, 151-159.	3.9	146
122	Occurrence of methane in the near-surface waters of the western subtropical North-Atlantic. Deep-sea Research, 1977, 24, 127-138.	0.5	159
123	210Pb/226Ra and 210Po/210Pb disequilibria in seawater and suspended particulate matter. Earth and Planetary Science Letters, 1976, 32, 277-296.	4.4	403
124	The distribution of particulate matter in the Atlantic Ocean. Earth and Planetary Science Letters, 1976, 32, 393-402.	4.4	113
125	The distribution of particulate iodine in the Atlantic Ocean. Earth and Planetary Science Letters, 1976, 32, 441-450.	4.4	86
126	The density of North Atlantic and North Pacific deep waters. Earth and Planetary Science Letters, 1976, 32, 468-472.	4.4	32

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127	Alkalinity changes generated by phytoplankton growth1. Limnology and Oceanography, 1976, 21, 108-117.	3.1	355
128	The determination of iodide in sea water by neutron activation analysis. Analytica Chimica Acta, 1976, 81, 81-90.	5.4	38
129	An oceanic calcium problem?. Earth and Planetary Science Letters, 1975, 26, 81-87.	4.4	136
130	Carbon, nitrogen and phosphorus in the black sea. Deep Sea Research and Oceanographic Abstracts, 1973, 20, 803-818.	0.3	17
131	Trace element profiles from the Geosecs-II test station in the Sargasso Sea. Earth and Planetary Science Letters, 1972, 16, 111-116.	4.4	60
132	Aspects of the distribution and trace element composition of suspended matter in the Black Sea. Geochimica Et Cosmochimica Acta, 1972, 36, 71-86.	3.9	135
133	Vertical advection diffusion and redox potentials as controls on the distribution of manganese and other trace metals Dissolved in waters of the Black Sea. Journal of Geophysical Research, 1971, 76, 5877-5892.	3.3	238
134	COLORIMETRIC DETERMINATION OF MANGANESE IN ANOXIC WATERS1. Limnology and Oceanography, 1971, 16, 107-110.	3.1	179
135	Anomalous fluoride concentrations in the North Atlantic. Deep Sea Research and Oceanographic Abstracts, 1970, 17, 1-7.	0.3	7
136	Analytical methods in oceanography I. Inorganic methods. CRC Critical Reviews in Solid State Sciences, 1970, 1, 409-478.	1.2	13