

Edward T Peltzer

List of Publications by Year in descending order

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87
papers

5,681
citations

57719

44
h-index

76872

74
g-index

91
all docs

91
docs citations

91
times ranked

4702
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Deep sea NMR: Methane hydrate growth habit in porous media and its relationship to hydraulic permeability, deposit accumulation, and submarine slope stability. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 367 |
| 2 | Direct Experiments on the Ocean Disposal of Fossil Fuel CO ₂ . <i>Science</i> , 1999, 284, 943-945. | 6.0 | 329 |
| 3 | The chemical conditions on the parent body of the murchison meteorite: Some conclusions based on amino, hydroxy and dicarboxylic acids. <i>Advances in Space Research</i> , 1984, 4, 69-74. | 1.2 | 243 |
| 4 | Atmospheric transport of continentally derived lipids to the tropical North Pacific. <i>Nature</i> , 1981, 291, 312-314. | 13.7 | 217 |
| 5 | The importance of atmospheric input of terrestrial organic material to deep sea sediments. <i>Organic Geochemistry</i> , 1986, 10, 661-669. | 0.9 | 207 |
| 6 | Limits to Marine Life. <i>Science</i> , 2009, 324, 347-348. | 6.0 | 171 |
| 7 | Enhanced lifetime of methane bubble streams within the deep ocean. <i>Geophysical Research Letters</i> , 2002, 29, 21-1-21-4. | 1.5 | 170 |
| 8 | Analyses of dissolved organic carbon in seawater: the JGOFS EqPac methods comparison. <i>Marine Chemistry</i> , 1995, 48, 91-108. | 0.9 | 157 |
| 9 | ±-Hydroxycarboxylic acids in the Murchison meteorite. <i>Nature</i> , 1978, 272, 443-444. | 13.7 | 150 |
| 10 | Development of a laser Raman spectrometer for deep-ocean science. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 739-753. | 0.6 | 142 |
| 11 | Stocks and dynamics of dissolved and particulate organic matter in the southern Ross Sea, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 3201-3225. | 0.6 | 141 |
| 12 | Final dissolved organic carbon broad community intercalibration and preliminary use of DOC reference materials. <i>Marine Chemistry</i> , 2002, 77, 239-253. | 0.9 | 140 |
| 13 | Hypoxia by degrees: Establishing definitions for a changing ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 1212-1226. | 0.6 | 137 |
| 14 | Long-range transport of terrestrially derived lipids in aerosols from the south Pacific. <i>Nature</i> , 1987, 325, 800-803. | 13.7 | 132 |
| 15 | The use of in situ and airborne fluorescence measurements to determine UV absorption coefficients and DOC concentrations in surface waters. <i>Limnology and Oceanography</i> , 1995, 40, 411-415. | 1.6 | 130 |
| 16 | Lipids in aerosols from the tropical North Pacific: Temporal variability. <i>Journal of Geophysical Research</i> , 1982, 87, 11133-11144. | 3.3 | 125 |
| 17 | Dissolution rates of pure methane hydrate and carbon-dioxide hydrate in undersaturated seawater at 1000-m depth. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 285-292. | 1.6 | 123 |
| 18 | Gas hydrate measurements at Hydrate Ridge using Raman spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2947-2959. | 1.6 | 122 |

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|----|--|-----|-----------|
| 19 | Spatial and temporal variability of total organic carbon along 140°W in the equatorial Pacific Ocean in 1992. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 1155-1180. | 0.6 | 112 |
| 20 | Controls on methane bubble dissolution inside and outside the hydrate stability field from open ocean field experiments and numerical modeling. <i>Marine Chemistry</i> , 2009, 114, 19-30. | 0.9 | 110 |
| 21 | Effects of Direct Ocean CO ₂ Injection on Deep-Sea Meiofauna. <i>Journal of Oceanography</i> , 2004, 60, 759-766. | 0.7 | 96 |
| 22 | Spatial and temporal variations of total organic carbon in the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 2171-2193. | 0.6 | 94 |
| 23 | Air-sea fluxes of lipids at Enewetak Atoll. <i>Journal of Geophysical Research</i> , 1985, 90, 2409-2423. | 3.3 | 90 |
| 24 | A field study of the effects of CO ₂ ocean disposal on mobile deep-sea animals. <i>Marine Chemistry</i> , 2000, 72, 95-101. | 0.9 | 80 |
| 25 | Some practical aspects of measuring DOC " sampling artifacts and analytical problems with marine samples. <i>Marine Chemistry</i> , 1993, 41, 243-252. | 0.9 | 79 |
| 26 | Formaldehyde in remote marine air and rain: Flux measurements and estimates. <i>Geophysical Research Letters</i> , 1980, 7, 341-344. | 1.5 | 77 |
| 27 | Unanticipated consequences of ocean acidification: A noisier ocean at lower pH. <i>Geophysical Research Letters</i> , 2008, 35, . | 1.5 | 76 |
| 28 | Experimental Determination of the Fate of Rising CO ₂ Droplets in Seawater. <i>Environmental Science & Technology</i> , 2002, 36, 5441-5446. | 4.6 | 74 |
| 29 | Raman Spectroscopy in the Deep Ocean: Successes and Challenges. <i>Applied Spectroscopy</i> , 2004, 58, 195A-208A. | 1.2 | 73 |
| 30 | Raman spectroscopic measurements of synthetic gas hydrates in the ocean. <i>Marine Chemistry</i> , 2006, 98, 304-314. | 0.9 | 68 |
| 31 | Seafloor nuclear magnetic resonance assay of methane hydrate in sediment and rock. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 61 |
| 32 | A comparison of methods for the measurement of dissolved organic carbon in natural waters. <i>Marine Chemistry</i> , 1996, 54, 85-96. | 0.9 | 60 |
| 33 | Experiments on the ocean sequestration of fossil fuel CO ₂ : pH measurements and hydrate formation. <i>Marine Chemistry</i> , 2000, 72, 83-93. | 0.9 | 58 |
| 34 | Authigenic carbon entombed in methane-soaked sediments from the northeastern transform margin of the Guaymas Basin, Gulf of California. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1240-1267. | 0.6 | 57 |
| 35 | In situ Raman analyses of deep-sea hydrothermal and cold seep systems (Gorda Ridge and Hydrate) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.0 | 55 |
| 36 | Development and deployment of a deep-sea Raman probe for measurement of pore water geochemistry. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 297-306. | 0.6 | 55 |

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|----|---|-----|-----------|
| 37 | A Review of Advances in Deep-Ocean Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 237-249. | 1.2 | 54 |
| 38 | Free-ocean CO ₂ enrichment (FOCE) systems: present status and future developments. <i>Biogeosciences</i> , 2014, 11, 4057-4075. | 1.3 | 51 |
| 39 | A timescale for dissolved organic carbon production in equatorial Pacific surface waters. <i>Global Biogeochemical Cycles</i> , 1997, 11, 435-452. | 1.9 | 49 |
| 40 | Determination of Amino Acid Enantiomeric Ratios by Gas Liquid Chromatography of the N-Trifluoroacetyl-L-Prolyl-Peptide Methyl Esters. <i>Journal of Chromatographic Science</i> , 1978, 16, 556-560. | 0.7 | 48 |
| 41 | Seeing a Deep Ocean CO ₂ Enrichment Experiment in a New Light: A Laser Raman Detection of Dissolved CO ₂ in Seawater. <i>Environmental Science & Technology</i> , 2005, 39, 9630-9636. | 4.6 | 48 |
| 42 | Use of a Free Ocean CO ₂ Enrichment (FOCE) System to Evaluate the Effects of Ocean Acidification on the Foraging Behavior of a Deep-Sea Urchin. <i>Environmental Science & Technology</i> , 2014, 48, 9890-9897. | 4.6 | 48 |
| 43 | In situ Raman-based measurements of high dissolved methane concentrations in hydrate-rich ocean sediments. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 1.5 | 47 |
| 44 | Dissolved organic carbon on Georges Bank. <i>Continental Shelf Research</i> , 1996, 16, 409-420. | 0.9 | 46 |
| 45 | Development and deployment of a precision underwater positioning system for in situ laser Raman spectroscopy in the deep ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 2376-2389. | 0.6 | 42 |
| 46 | Measurements of the fate of gas hydrates during transit through the ocean water column. <i>Geophysical Research Letters</i> , 2002, 29, 38-1-38-4. | 1.5 | 39 |
| 47 | In situ Raman measurement of HS ⁻ and H ₂ S in sediment pore waters and use of the HS ⁻ :H ₂ S ratio as an indicator of pore water pH. <i>Marine Chemistry</i> , 2016, 184, 32-42. | 0.9 | 34 |
| 48 | Depth perception: the need to report ocean biogeochemical rates as functions of temperature, not depth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160319. | 1.6 | 34 |
| 49 | Deep ocean experiments with fossil fuel carbon dioxide: Creation and sensing of a controlled plume at 4 km depth. <i>Journal of Marine Research</i> , 2005, 63, 9-33. | 0.3 | 33 |
| 50 | Comparison of the August–September 1991 and 1979 surface partial pressure of CO ₂ distribution in the Equatorial Pacific Ocean near 150°W. <i>Marine Chemistry</i> , 1994, 45, 257-266. | 0.9 | 32 |
| 51 | A survey of methane isotope abundance (¹⁴ C, ¹³ C, ² H) from five nearshore marine basins that reveals unusual radiocarbon levels in subsurface waters. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 32 |
| 52 | Ocean chemistry, ocean warming, and emerging hypoxia: Commentary. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3659-3667. | 1.0 | 30 |
| 53 | Three-dimensional acoustic monitoring and modeling of a deep-sea CO ₂ droplet cloud. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 29 |
| 54 | Microstructure characteristics during hydrate formation and dissociation revealed by X-ray tomographic microscopy. <i>Geo-Marine Letters</i> , 2012, 32, 555-562. | 0.5 | 29 |

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|----|--|-----|-----------|
| 55 | Variation of CO ₂ partial pressure in surface seawater in the equatorial Pacific Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1611-1625. | 0.6 | 25 |
| 56 | Field Studies on the Formation of Sinking CO ₂ Particles for Ocean Carbon Sequestration: Effects of Injector Geometry on Particle Density and Dissolution Rate and Model Simulation of Plume Behavior. Environmental Science & Technology, 2005, 39, 7287-7293. | 4.6 | 25 |
| 57 | Lipid geochemistry of remote aerosols from the southwestern Pacific Ocean sector. Atmospheric Environment, 2004, 38, 1615-1624. | 1.9 | 24 |
| 58 | Deep-Sea Field Test of the CH ₄ Hydrate to CO ₂ Hydrate Spontaneous Conversion Hypothesis. Energy & Fuels, 2014, 28, 7061-7069. | 2.5 | 24 |
| 59 | Sampling and quantitation of lipids in aerosols from the remote marine atmosphere. Analytica Chimica Acta, 1987, 198, 125-144. | 2.6 | 21 |
| 60 | Geochemistry of Chemical Weapon Breakdown Products on the Seafloor: 1,4-Thioxane in Seawater. Environmental Science & Technology, 2009, 43, 610-615. | 4.6 | 19 |
| 61 | Carbonate chemistry of an in-situ free-ocean CO ₂ enrichment experiment (antFOCE) in comparison to short term variation in Antarctic coastal waters. Scientific Reports, 2018, 8, 2816. | 1.6 | 19 |
| 62 | Evaluating microbial chemical choices: The ocean chemistry basis for the competition between use of O ₂ or NO ₃ ⁻ as an electron acceptor. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 87, 35-42. | 0.6 | 18 |
| 63 | Free Ocean CO ₂ Enrichment (FOCE) experiments: Scientific and technical recommendations for future in situ ocean acidification projects. Progress in Oceanography, 2019, 172, 89-107. | 1.5 | 16 |
| 64 | Low molecular weight α -hydroxy carboxylic and dicarboxylic acids in reducing marine sediments. Geochimica Et Cosmochimica Acta, 1981, 45, 1847-1854. | 1.6 | 13 |
| 65 | Evaluation of the atmospheric transport of marine-derived particles using long-chain unsaturated ketones. Journal of Geophysical Research, 1990, 95, 1789-1795. | 3.3 | 12 |
| 66 | Stereospecific Deaminations of Some N-Alkylaziridines by m-Chloroperbenzoic Acid. Angewandte Chemie International Edition in English, 1970, 9, 374-374. | 4.4 | 11 |
| 67 | The coral proto - free ocean carbon enrichment system (CP-FOCE): Engineering and development. , 2010, , . | | 11 |
| 68 | The speciation of water in sea water and in gelatinous marine animals. Marine Chemistry, 2017, 195, 94-104. | 0.9 | 11 |
| 69 | The Molecular Basis for the Heat Capacity and Thermal Expansion of Natural Waters. Geophysical Research Letters, 2019, 46, 13227-13233. | 1.5 | 11 |
| 70 | 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. | 1.0 | 10 |
| 71 | Molecular characteristics of water-soluble dicarboxylic acids, α -oxocarboxylic acids, pyruvic acid and β -dicarbonyls in the aerosols from the eastern North Pacific. Marine Chemistry, 2020, 224, 103812. | 0.9 | 10 |
| 72 | Ocean chemistry and the speed of sound in seawater. Marine Chemistry, 2015, 177, 591-606. | 0.9 | 9 |

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| 73 | Kinetic bottlenecks to chemical exchange rates for deep-sea animals – Part 2: Carbon Dioxide. Biogeosciences, 2013, 10, 2409-2425. | 1.3 | 8 |
| 74 | Development of improved space sampling strategies for ocean chemical properties: Total carbon dioxide and dissolved nitrate. Geophysical Research Letters, 1995, 22, 945-948. | 1.5 | 6 |
| 75 | First results from a controlled deep sea CO ₂ perturbation experiment: Evidence for rapid equilibration of the oceanic CO ₂ system at depth. Journal of Geophysical Research, 2005, 110, . | 3.3 | 6 |
| 76 | 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. | 0.6 | 6 |
| 77 | Eel Canyon Slump Scar and Associated Fluid Venting. Advances in Natural and Technological Hazards Research, 2016, , 411-418. | 1.1 | 6 |
| 78 | Kinetic bottlenecks to respiratory exchange rates in the deep-sea – Part 1: Oxygen. Biogeosciences, 2013, 10, 5049-5060. | 1.3 | 5 |
| 79 | 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. | 0.6 | 5 |
| 80 | In Situ Ocean Acidification Environmental Observations: MBARI's Cabled Observatory Technology for Controlled Studies of Changing Ocean pH. , 2007, , . | | 2 |
| 81 | Cabled instrument technologies for ocean acidification research — FOCE (free ocean) Tj ETQq1 1 0.784314 rgBT ₂ /Overlo | | |
| 82 | 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. | 0.5 | 2 |
| 83 | Life at low Reynolds number Re-visited: The efficiency of microbial propulsion. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 185, 103790. | 0.6 | 2 |
| 84 | Lessons Learned while Optimizing Instrument Sensitivity for Deep Ocean Raman Spectroscopy. , 2006, , . | | 1 |
| 85 | In situ Raman probe for quantitative observation of sediment pore waters in the Deep Ocean — Development and applications. , 2011, , . | | 1 |
| 86 | Ocean abyssal carbon experiments at 0.7 and 4 KM depth. , 2005, , 801-808. | | 1 |
| 87 | Direct Experiments on the Ocean Disposal of Fossil Fuel CO ₂ . , 2001, , . | | 0 |