

Michael D Degrandpre

List of Publications by Year in descending order

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55
papers

2,429
citations

172457

29
h-index

206112

48
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56
all docs

56
docs citations

56
times ranked

2980
citing authors

#	ARTICLE	IF	CITATIONS
1	An inter-comparison of autonomous in situ instruments for ocean CO ₂ measurements under laboratory-controlled conditions. <i>Marine Chemistry</i> , 2022, 240, 104085.	2.3	7
2	Comparison of spectrophotometric and electrochemical pH measurements for calculating freshwater CO_2 . <i>Limnology and Oceanography: Methods</i> , 2022, 20, 514-529.	2.0	3
3	Lateral, Vertical, and Temporal Variability of Seawater Carbonate Chemistry at Hog Reef, Bermuda. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	7
4	Observations of River Solute Concentrations during Ice Formation. <i>ACS ES&T Water</i> , 2021, 1, 1695-1701.	4.6	5
5	Collaborative Achievements and Challenges for Our 10 th River Research Effort. <i>Limnology and Oceanography Bulletin</i> , 2021, 30, 127-128.	0.4	2
6	Consistency and stability of purified meta-cresol purple for spectrophotometric pH measurements in seawater. <i>Marine Chemistry</i> , 2021, 236, 104018.	2.3	15
7	Autonomous in situ measurements of freshwater alkalinity. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 51-66.	2.0	8
8	Sea-ice loss amplifies summertime decadal CO ₂ increase in the western Arctic Ocean. <i>Nature Climate Change</i> , 2020, 10, 678-684.	18.8	40
9	Changes in the Arctic Ocean Carbon Cycle With Diminishing Ice Cover. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088051.	4.0	23
10	Inorganic Carbon and CO_2 Variability During Ice Formation in the Beaufort Gyre of the Canada Basin. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4017-4028.	2.6	12
11	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	50
12	Seasonal Changes in Carbonate Saturation State and Air-Sea CO ₂ Fluxes During an Annual Cycle in a Stratified Temperate Fjord (Reloncavé Fjord, Chilean Patagonia). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2851-2865.	3.0	17
13	An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	48
14	Autonomous Optofluidic Chemical Analyzers for Marine Applications: Insights from the Submersible Autonomous Moored Instruments (SAMI) for pH and pCO ₂ . <i>Frontiers in Marine Science</i> , 2018, 4, .	2.5	24
15	Carbonate buffering and metabolic controls on carbon dioxide in rivers. <i>Global Biogeochemical Cycles</i> , 2017, 31, 663-677.	4.9	92
16	Sea surface CO_2 and O_2 dynamics in the partially ice-covered Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1425-1438.	2.6	12
17	Spectrophotometric measurement of freshwater pH with purified meta-cresol purple and phenol red. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 864-873.	2.0	32
18	Influence of climate and land use in carbon biogeochemistry in lower reaches of rivers in central southern Chile: Implications for the carbonate system in river-influenced rocky shore environments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 673-692.	3.0	37

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19	Autonomous in Situ Measurements of Seawater Alkalinity. <i>Environmental Science & Technology</i> , 2014, 48, 9573-9581.	10.0	46
20	Considerations for the measurement of spectrophotometric pH for ocean acidification and other studies. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 830-839.	2.0	38
21	Aragonite saturation state dynamics in a coastal upwelling zone. <i>Geophysical Research Letters</i> , 2013, 40, 2720-2725.	4.0	120
22	Dissolved O ₂ /Ar and other methods reveal rapid changes in productivity during a Lagrangian experiment in the Southern Ocean. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	70
23	Short-term and seasonal pH, <i>p</i> CO ₂ and saturation state variability in a coral reef ecosystem. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	56
24	Universal Tracer Monitored Titrations. <i>Analytical Chemistry</i> , 2011, 83, 9217-9220.	6.5	9
25	Sea surface <i>p</i> CO ₂ and O ₂ in the Southern Ocean during the austral fall, 2008. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
26	Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14
27	Observed variability of Lake Superior pCO ₂ . <i>Limnology and Oceanography</i> , 2011, 56, 775-786.	3.1	26
28	Applications of in situ pH measurements for inorganic carbon calculations. <i>Marine Chemistry</i> , 2011, 125, 82-90.	2.3	63
29	A multiyear assessment of biological perturbations of CO ₂ in the Northeast Channel of the Gulf of Maine. , 2011, , .		1
30	Controls of riverine CO ₂ over an annual cycle determined using direct, high temporal resolution <i>p</i> CO ₂ measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
31	Volcanic ash fuels anomalous plankton bloom in subarctic northeast Pacific. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	238
32	Diel behavior of stable isotopes of dissolved oxygen and dissolved inorganic carbon in rivers over a range of trophic conditions, and in a mesocosm experiment. <i>Chemical Geology</i> , 2010, 269, 22-32.	3.3	44
33	Sea surface <i>p</i> CO ₂ and carbon export during the Labrador Sea spring-summer bloom: An in situ mass balance approach. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	27
34	A sensor for in situ indicator-based measurements of seawater pH. <i>Marine Chemistry</i> , 2008, 109, 18-28.	2.3	109
35	Evaluation of Indicator-Based pH Measurements for Freshwater over a Wide Range of Buffer Intensities. <i>Environmental Science & Technology</i> , 2008, 42, 6092-6099.	10.0	19
36	Investigations of Air-Sea Gas Exchange in the CoOP Coastal Air-Sea Chemical Exchange Project. <i>Oceanography</i> , 2008, 21, 34-45.	1.0	9

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37	Diel variations in stream chemistry and isotopic composition of dissolved inorganic carbon, upper Clark Fork River, Montana, USA. <i>Applied Geochemistry</i> , 2007, 22, 1329-1343.	3.0	54
38	Uptake and sequestration of atmospheric CO ₂ in the Labrador Sea deep convection region. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	28
39	Tracer Monitored Titrations: A Measurement of Total Alkalinity. <i>Analytical Chemistry</i> , 2006, 78, 1817-1826.	6.5	34
40	Comparison between Two Detection Systems for Fiber-Optic Chemical Sensor Applications. <i>Applied Spectroscopy</i> , 2006, 60, 465-470.	2.2	8
41	Biogeochemical Controls on Diel Cycling of Stable Isotopes of Dissolved O ₂ and Dissolved Inorganic Carbon in the Big Hole River, Montana. <i>Environmental Science & Technology</i> , 2005, 39, 7134-7140.	10.0	82
42	A Lagrangian study of surface CO ₂ dynamics in the eastern equatorial Pacific Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	23
43	Air-sea CO ₂ exchange in the equatorial Pacific. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	143
44	In situ pCO ₂ and O ₂ measurements in a lake during turnover and stratification: Observations and modeling. <i>Limnology and Oceanography</i> , 2004, 49, 330-340.	3.1	47
45	A Submersible Autonomous Sensor for Spectrophotometric pH Measurements of Natural Waters. <i>Analytical Chemistry</i> , 2003, 75, 1844-1850.	6.5	92
46	Spectrophotometric pH measurements of freshwater. <i>Analytica Chimica Acta</i> , 2002, 453, 13-20.	5.4	41
47	Under-ice CO ₂ and O ₂ variability in a freshwater lake. <i>Biogeochemistry</i> , 2002, 61, 95-113.	3.5	35
48	Calibration-Free Optical Chemical Sensors. <i>Analytical Chemistry</i> , 1999, 71, 1152-1159.	6.5	83
49	Measurement of seawater pCO ₂ using a renewable-reagent fiber optic sensor with colorimetric detection. <i>Analytical Chemistry</i> , 1993, 65, 331-337.	6.5	84
50	Thin film planar waveguide sensor for liquid phase absorbance measurements. <i>Analytical Chemistry</i> , 1990, 62, 2012-2017.	6.5	50
51	A Fiber-Optic FT-NIR Evanescent Field Absorbance Sensor. <i>Applied Spectroscopy</i> , 1990, 44, 273-279.	2.2	82
52	Evanescent field fiber optic probe for process analysis. <i>ISA Transactions</i> , 1989, 28, 71-77.	5.7	6
53	Polymer-coated cylindrical waveguide absorption sensor for high acidities. <i>Analytical Chemistry</i> , 1989, 61, 1674-1678.	6.5	40
54	Long path fiber-optic sensor for evanescent field absorbance measurements. <i>Analytical Chemistry</i> , 1988, 60, 2582-2586.	6.5	108

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55	Understanding the Implications of Hydrographic Processes on the Dynamics of the Carbonate System in a Sub-Antarctic Marine-Terminating Glacier-Fjord (53°S). <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	1