Andrew Dickson

List of Publications by Year
in descending order

50 papers	6,380 citations	136950 32 h-index	197818 49 g-index
56 all docs	56 docs citations	56 times ranked	5151 citing authors

#	Article	IF	Citations
1	Chemical speciation models based upon the Pitzer activity coefficient equations, including the propagation of uncertainties. II. Tris buffers in artificial seawater at 25ÂÃ°C, and an assessment of the seawater â€˜Totalâ€™ pH scale. Marine Chemistry, 2022, 244, 104096.	2.3	7
2	Development of an automated transportable continuous system to measure the total alkalinity of seawater. Talanta, 2021, 221, 121666.	5.5	3
3	Technical note: Interpreting pH changes. Biogeosciences, 2021, 18, 1407-1415.	3.3	25
4	Preparation of 2â€aminoâ€2â€hydroxymethylâ€1,3â€propanediol (<scp>TRIS</scp>) <scp>pH_T</scp> buffers in synthetic seawater. Limnology and Oceanography: Methods, 2020, 18, 504-515.	2.0	11
5	Insights from GO-SHIP hydrography data into the thermodynamic consistency of CO2 system measurements in seawater. Marine Chemistry, 2019, 211, 52-63.	2.3	54
6	Updated methods for global locally interpolated estimation of alkalinity, pH, and nitrate. Limnology and Oceanography: Methods, 2018, 16, 119-131.	2.0	107
7	Routine uncertainty propagation for the marine carbon dioxide system. Marine Chemistry, 2018, 207, 84-107.	2.3	213
8	Simultaneous quantum yield measurements of carbon uptake and oxygen evolution in microalgal cultures. PLoS ONE, 2018, 13, e0199125.	2.5	11
9	Seasonal patterns in aragonite saturation state on the southern California continental shelf. Continental Shelf Research, 2018, 167, 77-86.	1.8	13
10	Two decades of Pacific anthropogenic carbon storage and ocean acidification along Global Ocean Shipâ€based Hydrographic Investigations Program sections P16 and P02. Global Biogeochemical Cycles, 2017, 31, 306-327.	4.9	42
11	An evaluation of ISFET sensors for coastal pH monitoring applications. Regional Studies in Marine Science, 2017, 12, 11-18.	0.7	41
12	Calculating surface ocean pCO₂ from biogeochemical Argo floats equipped with pH: An uncertainty analysis. Global Biogeochemical Cycles, 2017, 31, 591-604.	4.9	104
13	Characterization of meta-Cresol Purple for spectrophotometric pH measurements in saline and hypersaline media at sub-zero temperatures. Scientific Reports, 2017, 7, 2481.	3.3	18
14	An evaluation of potentiometric pH sensors in coastal monitoring applications. Limnology and Oceanography: Methods, 2017, 15, 679-689.	2.0	9
15	Evaluation of marine pH sensors under controlled and natural conditions for the Wendy Schmidt Ocean Health XPRIZE. Limnology and Oceanography: Methods, 2017, 15, 586-600.	2.0	16
16	Metrological challenges for measurements of key climatological observables. Part 3: seawater pH. Metrologia, 2016, 53, R26-R39.	1.2	42
17	Core Principles of the California Current Acidification Network: Linking Chemistry, Physics, and Ecological Effects. Oceanography, 2015, 25, 160-169.	1.0	44
18	Quantifying anthropogenic carbon inventory changes in the Pacific sector of the Southern Ocean. Marine Chemistry, 2015, 174, 147-160.	2.3	38

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19	An inter-laboratory comparison assessing the quality of seawater carbon dioxide measurements. Marine Chemistry, 2015, 171, 36-43.	2.3	104
20	A seawater filtration method suitable for total dissolved inorganic carbon and pH analyses. Limnology and Oceanography: Methods, 2014, 12, 191-195.	2.0	45
21	Characterization of an Ion Sensitive Field Effect Transistor and Chloride Ion Selective Electrodes for pH Measurements in Seawater. Analytical Chemistry, 2014, 86, 11189-11195.	6.5	53
22	Nearshore Carbonate Dissolution in the Hawaiian Archipelago?. Aquatic Geochemistry, 2014, 20, 467-481.	1.3	2
23	Mixing and remineralization in waters detrained from the surface into Subantarctic Mode Water and Antarctic Intermediate Water in the southeastern Pacific. Journal of Geophysical Research: Oceans, 2014, 119, 4001-4028.	2.6	14
24	An automated system for spectrophotometric seawater pH measurements. Limnology and Oceanography: Methods, 2013, 11, 16-27.	2.0	97
25	Technical Note: Controlled experimental aquarium system for multi-stressor investigation of carbonate chemistry, oxygen saturation, and temperature. Biogeosciences, 2013, 10, 5967-5975.	3.3	37
26	Robust empirical relationships for estimating the carbonate system in the southern California Current System and application to CalCOFI hydrographic cruise data (2005â€“2011). Journal of Geophysical Research, 2012, 117, .	3.3	110
27	Decadal changes in the aragonite and calcite saturation state of the Pacific Ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	151
28	Rain impacts on CO₂ exchange in the western equatorial Pacific Ocean. Geophysical Research Letters, 2010, 37, .	4.0	38
29	Standards for Ocean Measurements. Oceanography, 2010, 23, 34-47.	1.0	85
30	A sensor for in situ indicator-based measurements of seawater pH. Marine Chemistry, 2008, 109, 18-28.	2.3	109
31	Decadal changes in Pacific carbon. Journal of Geophysical Research, 2008, 113, .	3.3	76
32	Ocean Acidification's Effects on Marine Ecosystems and Biogeochemistry: Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research; La Jolla, California, 9â€“11 October 2007. Eos, 2008, 89, 143.	0.1	6
33	Estimating the contribution of organic bases from microalgae to the titration alkalinity in coastal seawaters. Limnology and Oceanography: Methods, 2007, 5, 225-232.	2.0	68
34	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
35	Total alkalinity: The explicit conservative expression and its application to biogeochemical processes. Marine Chemistry, 2007, 106, 287-300.	2.3	477
36	Thermodynamic Modeling of Aqueous Aluminum Chemistry and Solid-Liquid Equilibria to High Solution Concentration and Temperature. I. The Acidic H-Al-Na-K-Cl-H2O System from 0 to 100â€‰Â°C. Journal of Solution Chemistry, 2007, 36, 1495-1523.	1.2	39

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37	Global relationships of total alkalinity with salinity and temperature in surface waters of the world's oceans. Geophysical Research Letters, 2006, 33, .	4.0	428
38	Tracer Monitored Titrations:Â Measurement of Total Alkalinity. Analytical Chemistry, 2006, 78, 1817-1826.	6.5	34
39	A rapid, precise potentiometric determination of total alkalinity in seawater by a newly developed flow-through analyzer designed for coastal regions. Marine Chemistry, 2004, 85, 75-87.	2.3	41
40	Variability in oxygen and nutrients in South Pacific Antarctic Intermediate Water. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	26
41	Ocean pCO2 calculated from dissolved inorganic carbon, alkalinity, and equations for K1 and K2: validation based on laboratory measurements of CO2 in gas and seawater at equilibrium. Marine Chemistry, 2000, 70, 105-119.	2.3	815
42	Assessment of the quality of the shipboard measurements of total alkalinity on the WOCE Hydrographic Program Indian Ocean CO2 survey cruises 1994â€“1996. Marine Chemistry, 1998, 63, 9-20.	2.3	29
43	The measurement of sea water pH. Marine Chemistry, 1993, 44, 131-142.	2.3	192
44	pH buffers for sea water media based on the total hydrogen ion concentration scale. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 107-118.	1.4	173
45	JGOFS: Measuring CO2 in the ocean. Eos, 1992, 73, 546-546.	0.1	1
46	The development of the alkalinity concept in marine chemistry. Marine Chemistry, 1992, 40, 49-63.	2.3	61
47	Standard potential of the reaction: , and and the standard acidity constant of the ion HSO4â¯ in synthetic sea water from 273.15 to 318.15 K. Journal of Chemical Thermodynamics, 1990, 22, 113-127.	2.0	1,237
48	Dissociation constant of bisulfate ion in aqueous sodium chloride solutions to 250.degree.C. The Journal of Physical Chemistry, 1990, 94, 7978-7985.	2.9	197
49	Thermodynamics of the dissociation of boric acid in synthetic seawater from 273.15 to 318.15 K. Deep-sea Research Part A, Oceanographic Research Papers, 1990, 37, 755-766.	1.5	797
50	An intercomparison exercise for oceanic carbon dioxide measurements. Eos, 1987, 68, 1580.	0.1	0