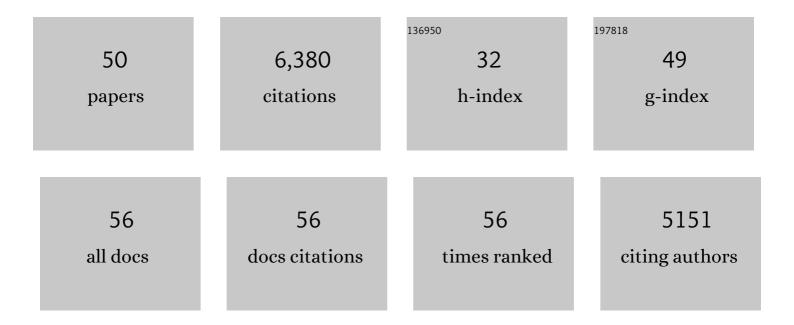
Andrew Dickson

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	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
2	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
3	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
4	Total alkalinity: The explicit conservative expression and its application to biogeochemical processes. Marine Chemistry, 2007, 106, 287-300.	2.3	477
5	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
6	Routine uncertainty propagation for the marine carbon dioxide system. Marine Chemistry, 2018, 207, 84-107.	2.3	213
7	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
8	The measurement of sea water pH. Marine Chemistry, 1993, 44, 131-142.	2.3	192
9	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
10	Decadal changes in the aragonite and calcite saturation state of the Pacific Ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	151
11	Robust empirical relationships for estimating the carbonate system in the southern California Current System and application to CalCOFI hydrographic cruise data (2005–2011). Journal of Geophysical Research, 2012, 117, .	3.3	110
12	A sensor for in situ indicator-based measurements of seawater pH. Marine Chemistry, 2008, 109, 18-28.	2.3	109
13	Updated methods for global locally interpolated estimation of alkalinity, pH, and nitrate. Limnology and Oceanography: Methods, 2018, 16, 119-131.	2.0	107
14	An inter-laboratory comparison assessing the quality of seawater carbon dioxide measurements. Marine Chemistry, 2015, 171, 36-43.	2.3	104
15	Calculating surface ocean pCO ₂ from biogeochemical Argo floats equipped with pH: An uncertainty analysis. Global Biogeochemical Cycles, 2017, 31, 591-604.	4.9	104
16	An automated system for spectrophotometric seawater pH measurements. Limnology and Oceanography: Methods, 2013, 11, 16-27.	2.0	97
17	Standards for Ocean Measurements. Oceanography, 2010, 23, 34-47.	1.0	85
18	Decadal changes in Pacific carbon. Journal of Geophysical Research, 2008, 113, .	3.3	76

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19	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
20	The development of the alkalinity concept in marine chemistry. Marine Chemistry, 1992, 40, 49-63.	2.3	61
21	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
22	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
23	A seawater filtration method suitable for total dissolved inorganic carbon and pH analyses. Limnology and Oceanography: Methods, 2014, 12, 191-195.	2.0	45
24	Core Principles of the California Current Acidification Network: Linking Chemistry, Physics, and Ecological Effects. Oceanography, 2015, 25, 160-169.	1.0	44
25	Metrological challenges for measurements of key climatological observables. Part 3: seawater pH. Metrologia, 2016, 53, R26-R39.	1.2	42
26	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
27	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
28	An evaluation of ISFET sensors for coastal pH monitoring applications. Regional Studies in Marine Science, 2017, 12, 11-18.	0.7	41
29	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 100 °C. Journal of Solution Chemistry, 2007, 36, 1495-1523.	1.2	39
30	Rain impacts on CO ₂ exchange in the western equatorial Pacific Ocean. Geophysical Research Letters, 2010, 37, .	4.0	38
31	Quantifying anthropogenic carbon inventory changes in the Pacific sector of the Southern Ocean. Marine Chemistry, 2015, 174, 147-160.	2.3	38
32	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
33	Comment on "Modernâ€age buildup of CO ₂ and its effects on seawater acidity and salinity― by Hugo A. Loáiciga. Geophysical Research Letters, 2007, 34, .	4.0	36
34	Tracer Monitored Titrations:Â Measurement of Total Alkalinity. Analytical Chemistry, 2006, 78, 1817-1826.	6.5	34
35	Assessment of the quality of the shipboard measurements of total alkalinity on the WOCE Hydrographic Program Indian Ocean CO2 survey cruises 1994–1996. Marine Chemistry, 1998, 63, 9-20.	2.3	29
36	Variability in oxygen and nutrients in South Pacific Antarctic Intermediate Water. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	26

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37	Technical note: Interpreting pH changes. Biogeosciences, 2021, 18, 1407-1415.	3.3	25
38	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
39	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
40	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
41	Seasonal patterns in aragonite saturation state on the southern California continental shelf. Continental Shelf Research, 2018, 167, 77-86.	1.8	13
42	Simultaneous quantum yield measurements of carbon uptake and oxygen evolution in microalgal cultures. PLoS ONE, 2018, 13, e0199125.	2.5	11
43	Preparation of 2â€aminoâ€2â€hydroxymethylâ€1,3â€propanediol (<scp>TRIS</scp>) <scp>pH_Tbuffers in synthetic seawater. Limnology and Oceanography: Methods, 2020, 18, 504-515.</scp>	^{.p} 2.0	11
44	An evaluation of potentiometric pH sensors in coastal monitoring applications. Limnology and Oceanography: Methods, 2017, 15, 679-689.	2.0	9
45	Chemical speciation models based upon the Pitzer activity coefficient equations, including the propagation of uncertainties. II. Tris buffers in artificial seawater at 25ÅŰC, and an assessment of the seawater †Total' pH scale. Marine Chemistry, 2022, 244, 104096.	2.3	7
46	Ocean Acidification's Effects on Marine Ecosystems and Biogeochemistry: Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research; La Jolla, California, 9–11 October 2007. Eos, 2008, 89, 143.	0.1	6
47	Development of an automated transportable continuous system to measure the total alkalinity of seawater. Talanta, 2021, 221, 121666.	5.5	3
48	Nearshore Carbonate Dissolution in the Hawaiian Archipelago?. Aquatic Geochemistry, 2014, 20, 467-481.	1.3	2
49	JGOFS: Measuring CO2 in the ocean. Eos, 1992, 73, 546-546.	0.1	1
50	An intercomparison exercise for oceanic carbon dioxide measurements. Eos, 1987, 68, 1580.	0.1	0