

# Denis Pierrot

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2573867/publications.pdf>

Version: 2024-02-01

40  
papers

9,840  
citations

236925

25  
h-index

289244

40  
g-index

48  
all docs

48  
docs citations

48  
times ranked

13321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
2	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
3	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
4	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
5	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
6	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
7	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
8	Dissociation constants of carbonic acid in seawater as a function of salinity and temperature. Marine Chemistry, 2006, 100, 80-94.	2.3	529
9	A multi-decade record of high-quality $\text{CO}_2$ data in version 3 of the Surface Ocean $\text{CO}_2$ Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	9.9	413
10	Recommendations for autonomous underway $\text{pCO}_2$ measuring systems and data-reduction routines. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 512-522.	1.4	265
11	Decrease in the $\text{CO}_2$ Uptake Capacity in an Ice-Free Arctic Ocean Basin. Science, 2010, 329, 556-559.	12.6	218
12	A uniform, quality controlled Surface Ocean $\text{CO}_2$ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	9.9	158
13	An update to the Surface Ocean $\text{CO}_2$ Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	9.9	158
14	Dissociation constants for carbonic acid determined from field measurements. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1705-1723.	1.4	145
15	A Chemical Equilibrium Model for Natural Waters. Aquatic Geochemistry, 1998, 4, 153-199.	1.3	137
16	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay. Nature Communications, 2017, 8, 369.	12.8	128
17	Trends in North Atlantic sea-surface $\text{fCO}_2$ from 1990 to 2006. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 620-629.	1.4	119
18	Surface Ocean $\text{CO}_2$ Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	9.9	101

#	ARTICLE	IF	CITATIONS
19	The dissociation of carbonic acid in NaCl solutions as a function of concentration and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 46-55.	3.9	88
20	A machine learning approach to estimate surface ocean pCO <sub>2</sub> from satellite measurements. <i>Remote Sensing of Environment</i> , 2019, 228, 203-226.	11.0	79
21	Recent acceleration of the sea surface <i>f</i> CO <sub>2</sub> growth rate in the North Atlantic subpolar gyre (1993–2008) revealed by winter observations. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	67
22	PyCO2SYS v1.8: marine carbonate system calculations in Python. <i>Geoscientific Model Development</i> , 2022, 15, 15-43.	3.6	35
23	Ocean carbonate system computation for anoxic waters using an updated CO2SYS program. <i>Marine Chemistry</i> , 2017, 195, 90-93.	2.3	30
24	The Apparent Molal Volume and Compressibility of Seawater Fit to the Pitzer Equations. <i>Journal of Solution Chemistry</i> , 2000, 29, 719-742.	1.2	26
25	A Surface Ocean CO <sub>2</sub> Reference Network, SOCONET and Associated Marine Boundary Layer CO <sub>2</sub> Measurements. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	26
26	Atlantic Ocean CARINA data: overview and salinity adjustments. <i>Earth System Science Data</i> , 2010, 2, 17-34.	9.9	20
27	The apparent molal heat capacity, enthalpy, and free energy of seawater fit to the Pitzer equations. <i>Marine Chemistry</i> , 2005, 94, 81-99.	2.3	18
28	The activity coefficients of Fe(III) hydroxide complexes in NaCl and NaClO <sub>4</sub> solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4825-4833.	3.9	18
29	The Speciation of Metals in Natural Waters. <i>Aquatic Geochemistry</i> , 2017, 23, 1-20.	1.3	17
30	Best Practice Data Standards for Discrete Chemical Oceanographic Observations. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	16
31	Title is missing!. <i>Journal of Solution Chemistry</i> , 2000, 29, 1211-1227.	1.2	15
32	Coastal Ocean Data Analysis Product in North America (CODAP-NA) – an internally consistent data product for discrete inorganic carbon, oxygen, and nutrients on the North American ocean margins. <i>Earth System Science Data</i> , 2021, 13, 2777-2799.	9.9	14
33	CARINA TCO&lt;sub&gt;2&lt;/sub&gt; data in the Atlantic Ocean. <i>Earth System Science Data</i> , 2010, 2, 177-187.	9.9	12
34	Activity Coefficients of HCl + GdCl <sub>3</sub> + H <sub>2</sub> O System from 5 to 55°C. Application of Pitzer Formalism. <i>Journal of Solution Chemistry</i> , 2000, 29, 619-631.	1.2	11
35	Thermodynamics of the HBr+NiBr <sub>2</sub> +H <sub>2</sub> O system from 5°C to 55°C. <i>Marine Chemistry</i> , 2000, 70, 37-48.	2.3	7
36	The activity coefficients of HCl in HCl~Na <sub>2</sub> SO <sub>4</sub> solutions from 0 to 50°C and ionic strengths up to 6 molal. <i>Journal of Solution Chemistry</i> , 1997, 26, 31-45.	1.2	6

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37	Activity Coefficients of (Hydrogen Chloride + Europium Chloride) (aq) Using Harned's Rule and the Pitzer Formalism. Journal of Chemical & Engineering Data, 2001, 46, 551-556.	1.9	6
38	SURATLANT: a 1993â€“2017 surface sampling in the central part of the North Atlantic subpolar gyre. Earth System Science Data, 2018, 10, 1901-1924.	9.9	5
39	A 17-year dataset of surface water fugacity of CO <sub>2</sub> along with calculated pH, aragonite saturation state and air-sea CO <sub>2</sub> fluxes in the northern Caribbean Sea. Earth System Science Data, 2020, 12, 1489-1509.	9.9	3
40	The Activity Coefficients of HCl in HClâ€“Na <sub>2</sub> SO <sub>4</sub> Solutions from 0 to 50Â°C and Ionic Strengths Up to 6 Molal. Journal of Solution Chemistry, 1997, 26, 31-45.	1.2	1