## Rik Wanninkhof

List of Publications by Year in descending order

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|          |                | 29994        | 20900          |
|----------|----------------|--------------|----------------|
| 114      | 24,752         | 54           | 115            |
| papers   | citations      | h-index      | g-index        |
|          |                |              |                |
|          |                |              |                |
| 122      | 122            | 122          | 14633          |
| all docs | docs citations | times ranked | citing authors |
|          |                |              |                |

| #  | Article                                                                                                                                                                                               | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Relationship between wind speed and gas exchange over the ocean. Journal of Geophysical Research, 1992, 97, 7373-7382.                                                                                | 3.3  | 3,825     |
| 2  | The Oceanic Sink for Anthropogenic CO2. Science, 2004, 305, 367-371.                                                                                                                                  | 6.0  | 3,371     |
| 3  | Climatological mean and decadal change in surface ocean pCO2, and net sea–air CO2 flux over the global oceans. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 554-577.         | 0.6  | 1,540     |
| 4  | Global sea–air CO2 flux based on climatological surface ocean pCO2, and seasonal biological and temperature effects. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1601-1622. | 0.6  | 1,506     |
| 5  | Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.                                                                                                                            | 3.7  | 1,477     |
| 6  | A global ocean carbon climatology: Results from Global Data Analysis Project (GLODAP). Global<br>Biogeochemical Cycles, 2004, 18, n/a-n/a.                                                            | 1.9  | 1,345     |
| 7  | Relationship between wind speed and gas exchange over the ocean revisited. Limnology and Oceanography: Methods, 2014, 12, 351-362.                                                                    | 1.0  | 889       |
| 8  | Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.                                                                                                                            | 3.7  | 663       |
| 9  | A cubic relationship between air-sea CO2exchange and wind speed. Geophysical Research Letters, 1999,<br>26, 1889-1892.                                                                                | 1.5  | 590       |
| 10 | Advances in Quantifying Air-Sea Gas Exchange and Environmental Forcing. Annual Review of Marine<br>Science, 2009, 1, 213-244.                                                                         | 5.1  | 552       |
| 11 | The oceanic sink for anthropogenic CO <sub>2</sub> from 1994 to 2007. Science, 2019, 363, 1193-1199.                                                                                                  | 6.0  | 505       |
| 12 | Constraining global air-sea gas exchange for CO2with recent bomb14C measurements. Global<br>Biogeochemical Cycles, 2007, 21, n/a-n/a.                                                                 | 1.9  | 442       |
| 13 | Global relationships of total alkalinity with salinity and temperature in surface waters of the world's oceans. Geophysical Research Letters, 2006, 33, .                                             | 1.5  | 428       |
| 14 | A multi-decade record of high-quality<br><i>f</i> CO <sub>2</sub> data in version 3 of the<br>Surface Ocean CO <sub>2</sub> Atlas (SOCAT). Earth System Science Data,<br>2016, 8, 383-413.            | 3.7  | 413       |
| 15 | The reinvigoration of the Southern Ocean carbon sink. Science, 2015, 349, 1221-1224.                                                                                                                  | 6.0  | 331       |
| 16 | Gas transfer velocities measured at low wind speed over a lake. Limnology and Oceanography, 2003,<br>48, 1010-1017.                                                                                   | 1.6  | 289       |
| 17 | Influence of El Ni $\tilde{A}_{\pm}$ o on the equatorial Pacific contribution to atmospheric CO2 accumulation. Nature, 1999, 398, 597-601.                                                            | 13.7 | 277       |
| 18 | Global ocean carbon uptake: magnitude, variability and trends. Biogeosciences, 2013, 10, 1983-2000.                                                                                                   | 1.3  | 276       |

| #  | Article                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Recommendations for autonomous underway pCO2 measuring systems and data-reduction routines.<br>Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 512-522.                                                                     | 0.6 | 265       |
| 20 | Gas Exchange-Wind Speed Relation Measured with Sulfur Hexafluoride on a Lake. Science, 1985, 227, 1224-1226.                                                                                                                                      | 6.0 | 238       |
| 21 | On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .                                                                                                                                    | 1.2 | 235       |
| 22 | Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP<br>Global Repeat Hydrography. Annual Review of Marine Science, 2016, 8, 185-215.                                                                  | 5.1 | 183       |
| 23 | Data-based estimates of the ocean carbon sink variability – first results of the Surface Ocean<br><i>p</i> CO <sub>2</sub> Mapping<br>intercomparison (SOCOM). Biogeosciences, 2015, 12, 7251-7278.                                               | 1.3 | 163       |
| 24 | Decadal variability of the air-sea CO2fluxes in the equatorial Pacific Ocean. Journal of Geophysical Research, 2006, 111, .                                                                                                                       | 3.3 | 159       |
| 25 | Chemical enhancement of CO <sub>2</sub> exchange in natural waters. Limnology and Oceanography, 1996, 41, 689-697.                                                                                                                                | 1.6 | 156       |
| 26 | Measurement of fugacity of CO2 in surface water using continuous and discrete sampling methods.<br>Marine Chemistry, 1993, 44, 189-204.                                                                                                           | 0.9 | 155       |
| 27 | Air-sea CO2exchange in the equatorial Pacific. Journal of Geophysical Research, 2004, 109, n/a-n/a.                                                                                                                                               | 3.3 | 143       |
| 28 | The marine inorganic carbon system along the Gulf of Mexico and Atlantic coasts of the United<br>States: Insights from a transregional coastal carbon study. Limnology and Oceanography, 2013, 58,<br>325-342.                                    | 1.6 | 141       |
| 29 | Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High‣atitude<br>Southern Ocean. Geophysical Research Letters, 2018, 45, 9049-9057.                                                                           | 1.5 | 138       |
| 30 | The effect of bubble-mediated gas transfer on purposeful dual-gaseous tracer experiments. Journal of<br>Geophysical Research, 1998, 103, 10555-10560.                                                                                             | 3.3 | 132       |
| 31 | Changes in the North Atlantic Oscillation influence CO <sub>2</sub> uptake in the North Atlantic over the past 2 decades. Global Biogeochemical Cycles, 2008, 22, .                                                                               | 1.9 | 127       |
| 32 | Decadal change of the surface water pCO2in the North Pacific: A synthesis of 35 years of observations. Journal of Geophysical Research, 2006, 111, .                                                                                              | 3.3 | 125       |
| 33 | Gas exchange on Mono Lake and Crowley Lake, California. Journal of Geophysical Research, 1987, 92,<br>14567-14580.                                                                                                                                | 3.3 | 122       |
| 34 | Airâ€sea CO <sub>2</sub> fluxes on the U.S. South Atlantic Bight: Spatial and seasonal variability.<br>Journal of Geophysical Research, 2008, 113, .                                                                                              | 3.3 | 119       |
| 35 | Gas transfer experiment on Georges Bank using two volatile deliberate tracers. Journal of<br>Geophysical Research, 1993, 98, 20237-20248.                                                                                                         | 3.3 | 110       |
| 36 | Toward a universal relationship between wind speed and gas exchange: Gas transfer velocities<br>measured with <sup>3</sup> He/SF <sub>6</sub> during the Southern Ocean Gas Exchange Experiment.<br>Journal of Geophysical Research, 2011, 116, . | 3.3 | 107       |

| #  | Article                                                                                                                                                                                                                          | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Calculating surface ocean pCO <sub>2</sub> from biogeochemical Argo floats equipped with pH: An<br>uncertainty analysis. Global Biogeochemical Cycles, 2017, 31, 591-604.                                                        | 1.9  | 104       |
| 38 | The recommended dissociation constants for carbonic acid in seawater. Geophysical Research Letters, 2000, 27, 229-232.                                                                                                           | 1.5  | 96        |
| 39 | Ocean acidification along the Gulf Coast and East Coast of the USA. Continental Shelf Research, 2015, 98, 54-71.                                                                                                                 | 0.9  | 96        |
| 40 | The optimal carbonate dissociation constants for determining surface water pCO2 from alkalinity and total inorganic carbon. Marine Chemistry, 1999, 65, 291-301.                                                                 | 0.9  | 94        |
| 41 | Eutrophicationâ€induced acidification of coastal waters in the northern Gulf of Mexico: Insights into<br>origin and processes from a coupled physicalâ€biogeochemical model. Geophysical Research Letters,<br>2017, 44, 946-956. | 1.5  | 89        |
| 42 | Ocean acidification of the Greater Caribbean Region 1996–2006. Journal of Geophysical Research, 2008, 113, .                                                                                                                     | 3.3  | 86        |
| 43 | A machine learning approach to estimate surface ocean pCO2 from satellite measurements. Remote<br>Sensing of Environment, 2019, 228, 203-226.                                                                                    | 4.6  | 79        |
| 44 | Controls on surface water carbonate chemistry along North American ocean margins. Nature<br>Communications, 2020, 11, 2691.                                                                                                      | 5.8  | 77        |
| 45 | Quantification of decadal anthropogenic CO2 uptake in the ocean based on dissolved inorganic carbon measurements. Nature, 1998, 396, 560-563.                                                                                    | 13.7 | 74        |
| 46 | Variability of global net sea–air CO <sub>2</sub> fluxes over the last three<br>decades using empirical relationships. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62,<br>352.                                    | 0.8  | 73        |
| 47 | Gas exchange, dispersion, and biological productivity on the West Florida Shelf: Results from a<br>Lagrangian Tracer Study. Geophysical Research Letters, 1997, 24, 1767-1770.                                                   | 1.5  | 72        |
| 48 | Sea–air flux of CO2 in the Caribbean Sea estimated using in situ and remote sensing data. Remote<br>Sensing of Environment, 2004, 89, 309-325.                                                                                   | 4.6  | 72        |
| 49 | Detecting anthropogenic CO <sub>2</sub> changes in the interior Atlantic Ocean between 1989 and 2005. Journal of Geophysical Research, 2010, 115, .                                                                              | 3.3  | 72        |
| 50 | Simultaneous spectrophotometric flow-through measurements of pH, carbon dioxide fugacity, and total inorganic carbon in seawater. Analytica Chimica Acta, 2007, 596, 23-36.                                                      | 2.6  | 68        |
| 51 | Recent acceleration of the sea surface <i>f</i> CO <sub>2</sub> growth rate in the North Atlantic<br>subpolar gyre (1993–2008) revealed by winter observations. Global Biogeochemical Cycles, 2010, 24, .                        | 1.9  | 67        |
| 52 | Mapping of the air–sea CO2 flux in the Arctic Ocean and its adjacent seas: Basin-wide distribution and seasonal to interannual variability. Polar Science, 2016, 10, 323-334.                                                    | 0.5  | 67        |
| 53 | Air-sea gas transfer in the Southern Ocean. Journal of Geophysical Research, 2004, 109, n/a-n/a                                                                                                                                  | 3.3  | 64        |
| 54 | Aqueous CO2 gradients for air–sea flux estimates. Marine Chemistry, 2006, 98, 100-108.                                                                                                                                           | 0.9  | 64        |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Global relationships of total inorganic carbon with temperature and nitrate in surface seawater.<br>Global Biogeochemical Cycles, 2000, 14, 979-994.                                                                                            | 1.9 | 63        |
| 56 | The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. Frontiers in Marine Science, 2019, 6, .                                                                   | 1.2 | 60        |
| 57 | Consistency and synthesis of Pacific Ocean CO2 survey data. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 21-58.                                                                                                        | 0.6 | 59        |
| 58 | A new automated underway system for making high precision pCO2 measurements onboard research ships. Analytica Chimica Acta, 1998, 377, 185-191.                                                                                                 | 2.6 | 57        |
| 59 | Evaluation of the National Oceanic and Atmospheric Administration/Coupled-Ocean Atmospheric<br>Response Experiment (NOAA/COARE) air-sea gas transfer parameterization using GasEx data. Journal of<br>Geophysical Research, 2004, 109, n/a-n/a. | 3.3 | 56        |
| 60 | Arctic Ocean CO <sub>2</sub> uptake: an improved multiyear estimate of<br>the air–sea CO <sub>2</sub> flux incorporating<br>chlorophyllÂ <i>a</i> concentrations. Biogeosciences, 2018, 15, 1643-1661.                                          | 1.3 | 56        |
| 61 | Rapid anthropogenic changes in CO <sub>2</sub> and pH in the Atlantic Ocean: 2003–2014. Global<br>Biogeochemical Cycles, 2016, 30, 70-90.                                                                                                       | 1.9 | 55        |
| 62 | Variability and trends in surface seawater <i>p</i> CO <sub>2</sub> and CO <sub>2</sub> flux in the<br>Pacific Ocean. Geophysical Research Letters, 2017, 44, 5627-5636.                                                                        | 1.5 | 55        |
| 63 | The effect of rain on air-water gas exchange. Tellus, Series B: Chemical and Physical Meteorology, 2022, 49, 149.                                                                                                                               | 0.8 | 53        |
| 64 | The effect of rain on air-water gas exchange. Tellus, Series B: Chemical and Physical Meteorology, 1997,<br>49, 149-158.                                                                                                                        | 0.8 | 53        |
| 65 | A comparison of CO <sub>2</sub> dynamics and airâ€water fluxes in a riverâ€dominated estuary and a<br>mangroveâ€dominated marine estuary. Geophysical Research Letters, 2016, 43, 11,726.                                                       | 1.5 | 52        |
| 66 | Gas exchange rates in the tidal Hudson river using a dual tracer technique. Tellus, Series B: Chemical<br>and Physical Meteorology, 2022, 46, 274.                                                                                              | 0.8 | 49        |
| 67 | Empirical algorithms to estimate water column pH in the Southern Ocean. Geophysical Research<br>Letters, 2016, 43, 3415-3422.                                                                                                                   | 1.5 | 48        |
| 68 | Internal consistency of marine carbonate system measurements and assessments of aragonite saturation state: Insights from two U.S. coastal cruises. Marine Chemistry, 2015, 176, 9-20.                                                          | 0.9 | 47        |
| 69 | Gas transfer velocities for SF6and ³He in a small pond at low wind speeds. Geophysical Research<br>Letters, 1995, 22, 93-96.                                                                                                                    | 1.5 | 46        |
| 70 | A 1998–1992 comparison of inorganic carbon and its transport across 24.5°N in the Atlantic. Deep-Sea<br>Research Part II: Topical Studies in Oceanography, 2003, 50, 3041-3064.                                                                 | 0.6 | 42        |
| 71 | Increase of anthropogenic CO2 in the Pacific Ocean over the last two decades. Deep-Sea Research Part<br>II: Topical Studies in Oceanography, 2003, 50, 3065-3082.                                                                               | 0.6 | 41        |
| 72 | Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic<br>CO <sub>2</sub> . Journal of Geophysical Research, 2008, 113, .                                                                            | 3.3 | 41        |

| #  | Article                                                                                                                                                                                                                       | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Southern Ocean Gas Exchange Experiment: Setting the stage. Journal of Geophysical Research, 2011, 116,                                                                                                                        | 3.3 | 36        |
| 74 | The impact of changing wind speeds on gas transfer and its effect on global airâ€sea CO <sub>2</sub><br>fluxes. Global Biogeochemical Cycles, 2017, 31, 961-974.                                                              | 1.9 | 36        |
| 75 | Pacific Anthropogenic Carbon Between 1991 and 2017. Global Biogeochemical Cycles, 2019, 33, 597-617.                                                                                                                          | 1.9 | 35        |
| 76 | Air–sea CO2 fluxes in the Caribbean Sea from 2002–2004. Journal of Marine Systems, 2007, 66, 272-284.                                                                                                                         | 0.9 | 34        |
| 77 | Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring.<br>Biogeosciences, 2014, 11, 4077-4098.                                                                                             | 1.3 | 34        |
| 78 | The impact of the North Atlantic Oscillation on the uptake and accumulation of anthropogenic<br>CO <sub>2</sub> by North Atlantic Ocean mode waters. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.                         | 1.9 | 30        |
| 79 | CO2fluxes in the subtropical and subarctic North Atlantic based on measurements from a volunteer observing ship. Journal of Geophysical Research, 2006, 111, .                                                                | 3.3 | 29        |
| 80 | Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. Journal of Geophysical Research: Oceans, 2018, 123, 3120-3143.                                                            | 1.0 | 29        |
| 81 | The effect of wind speed products and wind speed-gas exchange relationships on interannual<br>variability of the air-sea CO2 gas transfer velocity. Tellus, Series B: Chemical and Physical<br>Meteorology, 2005, 57, 95-106. | 0.8 | 28        |
| 82 | Climatic variability in upper ocean ventilation rates diagnosed using chlorofluorocarbons.<br>Geophysical Research Letters, 1998, 25, 1399-1402.                                                                              | 1.5 | 26        |
| 83 | A Surface Ocean CO2 Reference Network, SOCONET and Associated Marine Boundary Layer CO2<br>Measurements. Frontiers in Marine Science, 2019, 6, .                                                                              | 1.2 | 26        |
| 84 | Increase in anthropogenic CO2 in the Atlantic Ocean in the last two decades. Deep-Sea Research Part I:<br>Oceanographic Research Papers, 2010, 57, 755-770.                                                                   | 0.6 | 24        |
| 85 | A large increase of the CO <sub>2</sub> sink in the western tropical North Atlantic from 2002 to 2009. Journal of Geophysical Research, 2012, 117, .                                                                          | 3.3 | 24        |
| 86 | Carbon dynamics of the Weddell Gyre, Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 288-306.                                                                                                                         | 1.9 | 24        |
| 87 | Shortâ€ŧerm variability of aragonite saturation state in the central <scp>M</scp> idâ€ <scp>A</scp> tlantic<br><scp>B</scp> ight. Journal of Geophysical Research: Oceans, 2017, 122, 4274-4290.                              | 1.0 | 24        |
| 88 | Empirical temperature-based estimates of variability in the oceanic uptake of CO2over the past 2 decades. Journal of Geophysical Research, 2006, 111, .                                                                       | 3.3 | 22        |
| 89 | Impacts of temporal CO <sub>2</sub> and climate trends on the detection of ocean anthropogenic CO <sub>2</sub> accumulation. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.                                                 | 1.9 | 22        |
| 90 | Longâ€Term Changes of Carbonate Chemistry Variables Along the North American East Coast. Journal of<br>Geophysical Research: Oceans, 2020, 125, e2019JC015982.                                                                | 1.0 | 22        |

| #   | Article                                                                                                                                                                                                                                           | IF  | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Windâ€driven ocean dynamics impact on the contrasting seaâ€ice trends around <scp>W</scp> est<br><scp>A</scp> ntarctica. Journal of Geophysical Research: Oceans, 2017, 122, 4413-4430.                                                           | 1.0 | 19        |
| 92  | Time series pCO2 at a coastal mooring: Internal consistency, seasonal cycles, and interannual variability. Continental Shelf Research, 2017, 145, 95-108.                                                                                         | 0.9 | 18        |
| 93  | New and updated global empirical seawater property estimation routines. Limnology and Oceanography: Methods, 2021, 19, 785-809.                                                                                                                   | 1.0 | 18        |
| 94  | Climatic modulation of surface acidification rates through summertime wind forcing in the Southern Ocean. Nature Communications, 2018, 9, 3240.                                                                                                   | 5.8 | 17        |
| 95  | How Can Present and Future Satellite Missions Support Scientific Studies that Address Ocean Acidification?. Oceanography, 2015, 25, 108-121.                                                                                                      | 0.5 | 16        |
| 96  | Spatial and Temporal Variability of <i>p</i> CO <sub>2</sub> , Carbon Fluxes, and Saturation State on the West Florida Shelf. Journal of Geophysical Research: Oceans, 2018, 123, 6174-6188.                                                      | 1.0 | 16        |
| 97  | Procedures for direct spectrophotometric determination of carbonate ion concentrations:<br>Measurements in US Gulf of Mexico and East Coast waters. Marine Chemistry, 2015, 168, 80-85.                                                           | 0.9 | 15        |
| 98  | Seasonal patterns of surface inorganic carbon system variables in the Gulf of Mexico inferred from a regional high-resolution ocean biogeochemical model. Biogeosciences, 2020, 17, 1685-1700.                                                    | 1.3 | 15        |
| 99  | Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake. Nature<br>Geoscience, 2021, 14, 571-577.                                                                                                                   | 5.4 | 15        |
| 100 | Large Decadal Changes in Air‧ea CO <sub>2</sub> Fluxes in the Caribbean Sea. Journal of Geophysical<br>Research: Oceans, 2019, 124, 6960-6982.                                                                                                    | 1.0 | 14        |
| 101 | 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. Earth System Science Data, 2021, 13, 2777-2799. | 3.7 | 14        |
| 102 | Farfield Tracing of a Point Source Discharge Plume in the Coastal Ocean Using Sulfur Hexafluoride.<br>Environmental Science & Technology, 2005, 39, 8883-8890.                                                                                    | 4.6 | 13        |
| 103 | Importance of water mass formation regions for the air-sea CO2flux estimate in the Southern Ocean.<br>Global Biogeochemical Cycles, 2011, 25, n/a-n/a.                                                                                            | 1.9 | 13        |
| 104 | Spectrophotometric Determination of Carbonate Ion Concentrations: Elimination of<br>Instrument-Dependent Offsets and Calculation of In Situ Saturation States. Environmental Science<br>& Technology, 2017, 51, 9127-9136.                        | 4.6 | 13        |
| 105 | Seasonal Variations in Dissolved Carbon Inventory and Fluxes in a Mangroveâ€Dominated Estuary.<br>Global Biogeochemical Cycles, 2020, 34, e2019GB006515.                                                                                          | 1.9 | 13        |
| 106 | Increasing River Alkalinity Slows Ocean Acidification in the Northern Gulf of Mexico. Geophysical<br>Research Letters, 2021, 48, .                                                                                                                | 1.5 | 13        |
| 107 | Subannual variability of total alkalinity distributions in the northeastern <scp>G</scp> ulf of <scp>M</scp> exico. Journal of Geophysical Research: Oceans, 2015, 120, 3805-3816.                                                                | 1.0 | 12        |
| 108 | Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for<br>CO <sub>2</sub> than expected. Biogeosciences, 2022, 19, 2969-2988.                                                                         | 1.3 | 12        |

| #   | Article                                                                                                                                                                                                                                     | IF  | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Variability of USA East Coast surface total alkalinity distributions revealed by automated instrument measurements. Marine Chemistry, 2021, 232, 103960.                                                                                    | 0.9 | 9         |
| 110 | Repeat hydrography cruises reveal chemical changes in the North Atlantic. Eos, 2005, 86, 399.                                                                                                                                               | 0.1 | 7         |
| 111 | The Impact of Different Gas Exchange Formulations and Wind Speed Products on Global Air-Sea CO2<br>Fluxes. Environmental Science and Engineering, 2007, , 1-23.                                                                             | 0.1 | 7         |
| 112 | Air-Water Flux Reconciliation Between the Atmospheric CO2 Profile and Mass Balance Techniques.<br>Environmental Science and Engineering, 2007, , 181-192.                                                                                   | 0.1 | 7         |
| 113 | Variability of bottom carbonate chemistry over the deep coral reefs in the Florida Straits and the impacts of mesoscale processes. Ocean Modelling, 2020, 147, 101555.                                                                      | 1.0 | 3         |
| 114 | A 17-year dataset of surface water fugacity of CO <sub>2</sub> along with<br>calculated pH, aragonite saturation state and air–sea CO <sub>2</sub><br>fluxes in the northern Caribbean Sea. Earth System Science Data, 2020, 12, 1489-1509. | 3.7 | 3         |