## Rik Wanninkhof

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| 117                | 18,311                | 53          | 122             |
|--------------------|-----------------------|-------------|-----------------|
| papers             | citations             | h-index     | g-index         |
| 122<br>ext. papers | 21,439 ext. citations | 7.3 avg, IF | 6.73<br>L-index |

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 117 | Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005   | 10.5 | 47        |
| 116 | Variability of USA East Coast surface total alkalinity distributions revealed by automated instrument measurements. <i>Marine Chemistry</i> , <b>2021</b> , 232, 103960   | 3.7  | 1         |
| 115 | Coastal Ocean Data Analysis Product in North America (CODAP-NA) Ian internally consistent data product for discrete inorganic carbon, oxygen, and nutrients on the North American ocean margins. <i>Earth System Science Data</i> , <b>2021</b> , 13, 2777-2799 | 10.5 | 1         |
| 114 | Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake. <i>Nature Geoscience</i> , <b>2021</b> , 14, 571-577   | 18.3 | 2         |
| 113 | Increasing River Alkalinity Slows Ocean Acidification in the Northern Gulf of Mexico. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,   | 4.9  | O         |
| 112 | Controls on surface water carbonate chemistry along North American ocean margins. <i>Nature Communications</i> , <b>2020</b> , 11, 2691   | 17.4 | 26        |
| 111 | Long-Term Changes of Carbonate Chemistry Variables Along the North American East Coast.<br>Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015982  | 3.3  | 9         |
| 110 | Seasonal patterns of surface inorganic carbon system variables in the Gulf of Mexico inferred from a regional high-resolution ocean biogeochemical model. <i>Biogeosciences</i> , <b>2020</b> , 17, 1685-1700   | 4.6  | 9         |
| 109 | A 17-year dataset of surface water fugacity of CO<sub>2</sub> along with calculated pH, aragonite saturation state and airlea CO<sub>2</sub> fluxes in the northern Caribbean Sea. <i>Earth System Science Data</i> , <b>2020</b> , 12, 1489-1509               | 10.5 | 1         |
| 108 | Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340   | 10.5 | 533       |
| 107 | Variability of bottom carbonate chemistry over the deep coral reefs in the Florida Straits and the impacts of mesoscale processes. <i>Ocean Modelling</i> , <b>2020</b> , 147, 101555   | 3    | 2         |
| 106 | Seasonal Variations in Dissolved Carbon Inventory and Fluxes in a Mangrove-Dominated Estuary. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, e2019GB006515   | 5.9  | 6         |
| 105 | A machine learning approach to estimate surface ocean pCO2 from satellite measurements. <i>Remote Sensing of Environment</i> , <b>2019</b> , 228, 203-226   | 13.2 | 34        |
| 104 | Pacific Anthropogenic Carbon Between 1991 and 2017. Global Biogeochemical Cycles, 2019, 33, 597-617   | 5.9  | 14        |
| 103 | The oceanic sink for anthropogenic CO from 1994 to 2007. <i>Science</i> , <b>2019</b> , 363, 1193-1199  | 33.3 | 268       |
| 102 | On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,  | 4.5  | 116       |
| 101 | Large Decadal Changes in Air-Sea CO2 Fluxes in the Caribbean Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 6960-6982   | 3.3  | 7         |

## (2016-2019)

| 100 | The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,  | 4.5  | 27  |
|-----|--|------|-----|
| 99  | A Surface Ocean CO2 Reference Network, SOCONET and Associated Marine Boundary Layer CO2 Measurements. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,  | 4.5  | 17  |
| 98  | Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 3120-3143  | 3.3  | 19  |
| 97  | Spatial and Temporal Variability of pCO2, Carbon Fluxes, and Saturation State on the West Florida Shelf. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 6174-6188   | 3.3  | 12  |
| 96  | Climatic modulation of surface acidification rates through summertime wind forcing in the Southern Ocean. <i>Nature Communications</i> , <b>2018</b> , 9, 3240   | 17.4 | 11  |
| 95  | Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High-Latitude Southern Ocean. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 9049-9057   | 4.9  | 76  |
| 94  | Arctic Ocean CO<sub>2</sub> uptake: an improved multiyear estimate of the airBea CO<sub>2</sub> flux incorporating chlorophylll<i>a</i> concentrations. <i>Biogeosciences</i> , <b>2018</b> , 15, 1643-1661                                      | 4.6  | 29  |
| 93  | Eutrophication-induced acidification of coastal waters in the northern Gulf of Mexico: Insights into origin and processes from a coupled physical-biogeochemical model. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 946-956          | 4.9  | 56  |
| 92  | Calculating surface ocean pCO2 from biogeochemical Argo floats equipped with pH: An uncertainty analysis. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 591-604  | 5.9  | 67  |
| 91  | The impact of changing wind speeds on gas transfer and its effect on global air-sea CO2 fluxes. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 961-974  | 5.9  | 23  |
| 90  | Short-term variability of aragonite saturation state in the central Mid-Atlantic Bight. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 4274-4290  | 3.3  | 15  |
| 89  | Wind-driven ocean dynamics impact on the contrasting sea-ice trends around West Antarctica. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 4413-4430  | 3.3  | 10  |
| 88  | Spectrophotometric Determination of Carbonate Ion Concentrations: Elimination of Instrument-Dependent Offsets and Calculation of In Situ Saturation States. <i>Environmental Science &amp; Environmental Science &amp; Environmental Science</i> | 10.3 | 8   |
| 87  | Variability and trends in surface seawater pCO2 and CO2 flux in the Pacific Ocean. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5627-5636   | 4.9  | 36  |
| 86  | Time series pCO2 at a coastal mooring: Internal consistency, seasonal cycles, and interannual variability. <i>Continental Shelf Research</i> , <b>2017</b> , 145, 95-108   | 2.4  | 11  |
| 85  | Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. <i>Annual Review of Marine Science</i> , <b>2016</b> , 8, 185-215   | 15.4 | 118 |
| 84  | A comparison of CO2 dynamics and air-water fluxes in a river-dominated estuary and a mangrove-dominated marine estuary. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,726   | 4.9  | 33  |
| 83  | Empirical algorithms to estimate water column pH in the Southern Ocean. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3415-3422  | 4.9  | 32  |

| 82 | A multi-decade record of high-quality <i>f</i>CO<sub>2</sub> data in version 3 of the Surface Ocean CO<sub>2</sub> Atlas (SOCAT). <i>Earth System Science Data</i> , <b>2016</b> , 8, 383-413                        | 10.5           | 260 |
|----|--|----------------|-----|
| 81 | Rapid anthropogenic changes in CO2 and pH in the Atlantic Ocean: 2003\(\bar{D}\)014. <i>Global Biogeochemical Cycles</i> , <b>2016</b> , 30, 70-90   | 5.9            | 45  |
| 80 | Mapping of the airBea CO2 flux in the Arctic Ocean and its adjacent seas: Basin-wide distribution and seasonal to interannual variability. <i>Polar Science</i> , <b>2016</b> , 10, 323-334                          | 2.3            | 37  |
| 79 | Carbon dynamics of the Weddell Gyre, Southern Ocean. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 288-30  | 6 5.9          | 11  |
| 78 | Ocean acidification along the Gulf Coast and East Coast of the USA. <i>Continental Shelf Research</i> , <b>2015</b> , 98, 54-71  | 2.4            | 70  |
| 77 | Internal consistency of marine carbonate system measurements and assessments of aragonite saturation state: Insights from two U.S. coastal cruises. <i>Marine Chemistry</i> , <b>2015</b> , 176, 9-20                | 3.7            | 33  |
| 76 | The reinvigoration of the Southern Ocean carbon sink. <i>Science</i> , <b>2015</b> , 349, 1221-4   | 33.3           | 235 |
| 75 | Procedures for direct spectrophotometric determination of carbonate ion concentrations: Measurements in US Gulf of Mexico and East Coast waters. <i>Marine Chemistry</i> , <b>2015</b> , 168, 80-85                  | 3.7            | 12  |
| 74 | Subannual variability of total alkalinity distributions in the northeastern Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 3805-3816  | 3.3            | 7   |
| 73 | How Can Present and Future Satellite Missions Support Scientific Studies that Address Ocean Acidification?. <i>Oceanography</i> , <b>2015</b> , 25, 108-121  | 2.3            | 10  |
| 72 | Data-based estimates of the ocean carbon sink variability Ifirst results of the Surface Ocean <i>p</i>CO<sub>2</sub> Mapping intercomparison (SOCOM). <i>Biogeosciences</i> , <b>2015</b> , 12, 7251-7278            | 4.6            | 122 |
| 71 | Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring. <i>Biogeosciences</i> , <b>2014</b> , 11, 4077-4098  | 4.6            | 30  |
| 70 | Relationship between wind speed and gas exchange over the ocean revisited. <i>Limnology and Oceanography: Methods</i> , <b>2014</b> , 12, 351-362  | 2.6            | 567 |
| 69 | The marine inorganic carbon system along the Gulf of Mexico and Atlantic coasts of the United States: Insights from a transregional coastal carbon study. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 325- | -3 <b>42</b> 8 | 98  |
| 68 | Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , <b>2013</b> , 10, 1983-2000   | 4.6            | 229 |
| 67 | A large increase of the CO2 sink in the western tropical North Atlantic from 2002 to 2009. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a   |                | 19  |
| 66 | Importance of water mass formation regions for the air-sea CO2 flux estimate in the Southern Ocean. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a  | 5.9            | 13  |
| 65 | The impact of the North Atlantic Oscillation on the uptake and accumulation of anthropogenic CO2 by North Atlantic Ocean mode waters. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a                | 5.9            | 23  |

## (2007-2011)

| 64  | Impacts of temporal CO2 and climate trends on the detection of ocean anthropogenic CO2 accumulation. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a  | 5.9  | 16                               |
|---|---|------|----------------------------------|
| 63  | Southern Ocean Gas Exchange Experiment: Setting the stage. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,  |      | 31                               |
| 62  | Toward a universal relationship between wind speed and gas exchange: Gas transfer velocities measured with 3He/SF6 during the Southern Ocean Gas Exchange Experiment. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,   |      | 91                               |
| 61  | Variability of global net sealir CO2 fluxes over the last three decades using empirical relationships. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2010</b> , 62, 352-368   | 3.3  | 62                               |
| 60  | Recent acceleration of the sea surface fCO2 growth rate in the North Atlantic subpolar gyre (1993\( \textbf{Q}\) 008) revealed by winter observations. Global Biogeochemical Cycles, 2010, 24, n/a-n/a  | 5.9  | 55                               |
| 59  | Detecting anthropogenic CO2 changes in the interior Atlantic Ocean between 1989 and 2005.<br>Journal of Geophysical Research, <b>2010</b> , 115,  |      | 60                               |
| 58  | Increase in anthropogenic CO2 in the Atlantic Ocean in the last two decades. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2010</b> , 57, 755-770   | 2.5  | 18                               |
| 57  | Recommendations for autonomous underway pCO2 measuring systems and data-reduction routines. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2009</b> , 56, 512-522   | 2.3  | 217                              |
| 56  | Climatological mean and decadal change in surface ocean pCO2, and net seallir CO2 flux over the global oceans. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2009</b> , 56, 554-577  | 2.3  | 1200                             |
| 55  | Advances in quantifying air-sea gas exchange and environmental forcing. <i>Annual Review of Marine Science</i> , <b>2009</b> , 1, 213-44  | 15.4 | 446                              |
|   |   |      |                                  |
| 54  | Changes in the North Atlantic Oscillation influence CO2 uptake in the North Atlantic over the past 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a   | 5.9  | 106                              |
| <ul><li>54</li><li>53</li></ul>                       | ·   | 5.9  | <ul><li>106</li><li>35</li></ul> |
|   | 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a  Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic   | 5.9  |                                  |
| 53  | 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a  Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic CO2. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Air-sea CO2 fluxes on the U.S. South Atlantic Bight: Spatial and seasonal variability. <i>Journal of</i>  | 5.9  | 35                               |
| 53<br>52  | 2 decades. Global Biogeochemical Cycles, 2008, 22, n/a-n/a  Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic CO2. Journal of Geophysical Research, 2008, 113,  Air-sea CO2 fluxes on the U.S. South Atlantic Bight: Spatial and seasonal variability. Journal of Geophysical Research, 2008, 113,  Ocean acidification of the Greater Caribbean Region 19962006. Journal of Geophysical Research,  | 5.9  | 35<br>90                         |
| 53<br>52<br>51  | 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a  Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic CO2. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Air-sea CO2 fluxes on the U.S. South Atlantic Bight: Spatial and seasonal variability. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Ocean acidification of the Greater Caribbean Region 19962006. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Constraining global air-sea gas exchange for CO2 with recent bomb 14C measurements. <i>Global</i>  |      | 35<br>90<br>64                   |
| <ul><li>53</li><li>52</li><li>51</li><li>50</li></ul> | 2 decades. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a  Impact of ocean carbon system variability on the detection of temporal increases in anthropogenic CO2. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Air-sea CO2 fluxes on the U.S. South Atlantic Bight: Spatial and seasonal variability. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Ocean acidification of the Greater Caribbean Region 19962006. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,  Constraining global air-sea gas exchange for CO2 with recent bomb 14C measurements. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a  Simultaneous spectrophotometric flow-through measurements of pH, carbon dioxide fugacity, and | 5.9  | 35<br>90<br>64<br>372            |

| 46 | Air-Water Flux Reconciliation Between the Atmospheric CO2 Profile and Mass Balance Techniques. <i>Environmental Science and Engineering</i> , <b>2007</b> , 181-192  | 0.2  | 4    |
|----|--|------|------|
| 45 | Aqueous CO2 gradients for airBea flux estimates. <i>Marine Chemistry</i> , <b>2006</b> , 98, 100-108   | 3.7  | 54   |
| 44 | Decadal change of the surface water pCO2 in the North Pacific: A synthesis of 35 years of observations. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,  |      | 99   |
| 43 | Empirical temperature-based estimates of variability in the oceanic uptake of CO2 over the past 2 decades. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,   |      | 18   |
| 42 | CO2 fluxes in the subtropical and subarctic North Atlantic based on measurements from a volunteer observing ship. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,  |      | 27   |
| 41 | Decadal variability of the air-sea CO2 fluxes in the equatorial Pacific Ocean. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,   |      | 135  |
| 40 | Global relationships of total alkalinity with salinity and temperature in surface waters of the world coeans. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,  | 4.9  | 338  |
| 39 | Farfield tracing of a point source discharge plume in the coastal ocean using sulfur hexafluoride. <i>Environmental Science &amp; Environmental Science &amp; En</i> | 10.3 | 11   |
| 38 | Repeat hydrography cruises reveal chemical changes in the North Atlantic. <i>Eos</i> , <b>2005</b> , 86, 399   | 1.5  | 5    |
| 37 | . Tellus, Series B: Chemical and Physical Meteorology, <b>2005</b> , 57, 95-106  | 3.3  | 22   |
| 36 | SeaBir flux of CO2 in the Caribbean Sea estimated using in situ and remote sensing data. <i>Remote Sensing of Environment</i> , <b>2004</b> , 89, 309-325  | 13.2 | 57   |
| 35 | Air-sea gas transfer in the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a  |      | 58   |
| 34 | Evaluation of the National Oceanic and Atmospheric Administration/Coupled-Ocean Atmospheric Response Experiment (NOAA/COARE) air-sea gas transfer parameterization using GasEx data. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a   |      | 49   |
| 33 | Air-sea CO2 exchange in the equatorial Pacific. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a  |      | 127  |
| 32 | A global ocean carbon climatology: Results from Global Data Analysis Project (GLODAP). <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a   | 5.9  | 1144 |
| 31 | The oceanic sink for anthropogenic CO2. <i>Science</i> , <b>2004</b> , 305, 367-71   | 33.3 | 2745 |
| 30 | Gas transfer velocities measured at low wind speed over a lake. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 1010-1017  | 4.8  | 208  |
| 29 | A 1998¶992 comparison of inorganic carbon and its transport across 24.5¶N in the Atlantic.  Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 3041-3064  | 2.3  | 33   |

| 28 | Increase of anthropogenic CO2 in the Pacific Ocean over the last two decades. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2003</b> , 50, 3065-3082  | 2.3    | 36   |
|----|--|--------|------|
| 27 | Global seallir CO2 flux based on climatological surface ocean pCO2, and seasonal biological and temperature effects. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2002</b> , 49, 1601-1622 | 2.3    | 1234 |
| 26 | Consistency and synthesis of Pacific Ocean CO2 survey data. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2001</b> , 49, 21-58  | 2.3    | 55   |
| 25 | Global relationships of total inorganic carbon with temperature and nitrate in surface seawater. <i>Global Biogeochemical Cycles</i> , <b>2000</b> , 14, 979-994   | 5.9    | 55   |
| 24 | The recommended dissociation constants for carbonic acid in seawater. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 229-232  | 4.9    | 82   |
| 23 | The optimal carbonate dissociation constants for determining surface water pCO2 from alkalinity and total inorganic carbon. <i>Marine Chemistry</i> , <b>1999</b> , 65, 291-301                                      | 3.7    | 86   |
| 22 | Influence of El Ni <del>llo on the equatorial Pacific contribution to atmospheric CO2 accumulation. Nature, <b>1999</b>, 398, 597-601</del>  | 50.4   | 241  |
| 21 | A cubic relationship between air-sea CO2 exchange and wind speed. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1889-1892  | 4.9    | 514  |
| 20 | A new automated underway system for making high precision pCO2 measurements onboard research ships. <i>Analytica Chimica Acta</i> , <b>1998</b> , 377, 185-191   | 6.6    | 53   |
| 19 | Quantification of decadal anthropogenic CO2 uptake in the ocean based on dissolved inorganic carbon measurements. <i>Nature</i> , <b>1998</b> , 396, 560-563   | 50.4   | 60   |
| 18 | Climatic variability in upper ocean ventilation rates diagnosed using chlorofluorocarbons. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1399-1402   | 4.9    | 23   |
| 17 | The effect of bubble-mediated gas transfer on purposeful dual-gaseous tracer experiments.<br>Journal of Geophysical Research, <b>1998</b> , 103, 10555-10560   |        | 108  |
| 16 | The effect of rain on air-water gas exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1997</b> , 49, 149-158   | 3.3    | 29   |
| 15 | Gas exchange, dispersion, and biological productivity on the West Florida Shelf: Results from a Lagrangian Tracer Study. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1767-1770                           | 4.9    | 61   |
| 14 | . Tellus, Series B: Chemical and Physical Meteorology, <b>1997</b> , 49, 149-158   | 3.3    | 51   |
| 13 | Chemical enhancement of CO2 exchange in natural waters. <i>Limnology and Oceanography</i> , <b>1996</b> , 41, 689  | 9-6987 | 125  |
| 12 | Gas transfer velocities for SF6 and IHe in a small pond at low wind speeds. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 93-96  | 4.9    | 33   |
| 11 | Gas exchange rates in the tidal Hudson river using a dual tracer technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1994</b> , 46, 274-285   | 3.3    | 27   |

| 10 | Gas transfer experiment on Georges Bank using two volatile deliberate tracers. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 20237       | 94   |
|----|---|------|
| 9  | Measurement of fugacity of CO2 in surface water using continuous and discrete sampling methods.  Marine Chemistry, 1993, 44, 189-204                  | 142  |
| 8  | Relationship between wind speed and gas exchange over the ocean. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 7373                      | 3234 |
| 7  | Gas exchange on Mono Lake and Crowley Lake, California. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 14567                              | 106  |
| 6  | Gas exchange-wind speed relation measured with sulfur hexafluoride on a lake. <i>Science</i> , <b>1985</b> , 227, 1224 <sub>3</sub> 6.3               | 218  |
| 5  | Comparison of Inorganic Carbon System Parameters Measured in the Atlantic Ocean from 1990 to 1998 and Recommended Adjustments                         | 20   |
| 4  | Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring  | 1    |
| 3  | Data-based estimates of the ocean carbon sink variability [first results of the Surface Ocean & lt;i>pCO <sub>2</sub> Mapping intercomparison (SOCOM) | 5    |
| 2  | Global ocean carbon uptake: magnitude, variability and trends   | 14   |
| 1  | A multi-decade record of high-quality fCO <sub>2</sub> data in version 3 of the Surface Ocean CO <sub>2</sub> Atlas (SOCAT)                           | 6    |