

Daniel F McGinnis

List of Publications by Citations

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77
papers

3,643
citations

33
h-index

59
g-index

79
ext. papers

4,154
ext. citations

5.7
avg, IF

5.21
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 77 | Linking crenarchaeal and bacterial nitrification to anammox in the Black Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7104-9 | 11.5 | 444 |
| 76 | Fate of rising methane bubbles in stratified waters: How much methane reaches the atmosphere?. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 364 |
| 75 | Extreme methane emissions from a Swiss hydropower reservoir: contribution from bubbling sediments. <i>Environmental Science & Technology</i> , 2010 , 44, 2419-25 | 10.3 | 197 |
| 74 | 1300-m-high rising bubbles from mud volcanoes at 2080m in the Black Sea: Hydroacoustic characteristics and temporal variability. <i>Earth and Planetary Science Letters</i> , 2006 , 244, 1-15 | 5.3 | 189 |
| 73 | Sediment trapping by dams creates methane emission hot spots. <i>Environmental Science & Technology</i> , 2013 , 47, 8130-7 | 10.3 | 180 |
| 72 | Quantifying gas ebullition with echosounder: the role of methane transport by bubbles in a medium-sized lake. <i>Limnology and Oceanography: Methods</i> , 2008 , 6, 105-118 | 2.6 | 105 |
| 71 | Predicting diffused-bubble oxygen transfer rate using the discrete-bubble model. <i>Water Research</i> , 2002 , 36, 4627-35 | 12.5 | 92 |
| 70 | Quantification of seep-related methane gas emissions at Tommeliten, North Sea. <i>Continental Shelf Research</i> , 2011 , 31, 867-878 | 2.4 | 91 |
| 69 | Paradox reconsidered: Methane oversaturation in well-oxygenated lake waters. <i>Limnology and Oceanography</i> , 2014 , 59, 275-284 | 4.8 | 80 |
| 68 | A water column study of methane around gas flares located at the West Spitsbergen continental margin. <i>Continental Shelf Research</i> , 2014 , 72, 107-118 | 2.4 | 77 |
| 67 | Interaction between a bubble plume and the near field in a stratified lake. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 76 |
| 66 | Methane Production in Oxidic Lake Waters Potentially Increases Aquatic Methane Flux to Air. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 227-233 | 11 | 72 |
| 65 | Size does matter: importance of large bubbles and small-scale hot spots for methane transport. <i>Environmental Science & Technology</i> , 2015 , 49, 1268-76 | 10.3 | 70 |
| 64 | Application of Oxygen Eddy Correlation in Aquatic Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 1533-1546 | 2 | 69 |
| 63 | Technical note: drifting versus anchored flux chambers for measuring greenhouse gas emissions from running waters. <i>Biogeosciences</i> , 2015 , 12, 7013-7024 | 4.6 | 67 |
| 62 | Ikaite crystal distribution in winter sea ice and implications for CO ₂ system dynamics. <i>Cryosphere</i> , 2013 , 7, 707-718 | 5.5 | 63 |
| 61 | Full-scale evaluation of methane production under oxic conditions in a mesotrophic lake. <i>Nature Communications</i> , 2017 , 8, 1661 | 17.4 | 59 |

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| 60 | Enhancing surface methane fluxes from an oligotrophic lake: exploring the microbubble hypothesis. <i>Environmental Science & Technology</i> , 2015 , 49, 873-80 | 10.3 | 56 |
| 59 | Atmospheric methane flux from bubbling seeps: Spatially extrapolated quantification from a Black Sea shelf area. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 55 |
| 58 | Measurements of eddy correlation oxygen fluxes in shallow freshwaters: Towards routine applications and analysis. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 54 |
| 57 | Quantification of methane emissions at abandoned gas wells in the Central North Sea. <i>Marine and Petroleum Geology</i> , 2015 , 68, 848-860 | 4.7 | 52 |
| 56 | Quantifying tidally driven benthic oxygen exchange across permeable sediments: An aquatic eddy correlation study. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 6918-6932 | 3.3 | 49 |
| 55 | Seasonal rates of benthic primary production in a Greenland fjord measured by aquatic eddy correlation. <i>Limnology and Oceanography</i> , 2014 , 59, 1555-1569 | 4.8 | 48 |
| 54 | Discovery of a natural CO ₂ seep in the German North Sea: Implications for shallow dissolved gas and seep detection. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 46 |
| 53 | Methane seepage along the Hikurangi Margin of New Zealand: Geochemical and physical data from the water column, sea surface and atmosphere. <i>Marine Geology</i> , 2010 , 272, 170-188 | 3.3 | 44 |
| 52 | Intermittent oxygen flux from the interior into the bottom boundary of lakes as observed by eddy correlation. <i>Limnology and Oceanography</i> , 2008 , 53, 1997-2006 | 4.8 | 43 |
| 51 | Simple, robust eddy correlation amplifier for aquatic dissolved oxygen and hydrogen sulfide flux measurements. <i>Limnology and Oceanography: Methods</i> , 2011 , 9, 340-347 | 2.6 | 41 |
| 50 | Variable sediment oxygen uptake in response to dynamic forcing 2010 , 55, 950 | | 41 |
| 49 | Variable sediment oxygen uptake in response to dynamic forcing. <i>Limnology and Oceanography</i> , 2010 , 55, 950-964 | 4.8 | 38 |
| 48 | Contribution of oxic methane production to surface methane emission in lakes and its global importance. <i>Nature Communications</i> , 2019 , 10, 5497 | 17.4 | 38 |
| 47 | Acoustic observations of zooplankton in lakes using a Doppler current profiler. <i>Freshwater Biology</i> , 2004 , 49, 1280-1292 | 3.1 | 37 |
| 46 | Physical limitations of dissolved methane fluxes: The role of bottom-boundary layer processes. <i>Marine Geology</i> , 2010 , 272, 209-222 | 3.3 | 36 |
| 45 | Sources and sinks of methane in Lake Baikal: A synthesis of measurements and modeling. <i>Limnology and Oceanography</i> , 2007 , 52, 1824-1837 | 4.8 | 35 |
| 44 | Eddy-correlation measurements of benthic fluxes under complex flow conditions: Effects of coordinate transformations and averaging time scales. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 425-437 | 2.6 | 32 |
| 43 | Evaluating oxygen fluxes using microprofiles from both sides of the sediment-water interface. <i>Limnology and Oceanography: Methods</i> , 2010 , 8, 610-627 | 2.6 | 32 |

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| 42 | Silica retention in the Iron Gate I reservoir on the Danube River: the role of side bays as nutrient sinks. <i>River Research and Applications</i> , 2006 , 22, 441-456 | 2.3 | 31 |
| 41 | Predicting oxygen transfer and water flow rate in airlift aerators. <i>Water Research</i> , 2002 , 36, 4605-15 | 12.5 | 31 |
| 40 | Aquatic eddy correlation: quantifying the artificial flux caused by stirring-sensitive O2 sensors. <i>PLoS ONE</i> , 2015 , 10, e0116564 | 3.7 | 31 |
| 39 | An Assessment of the Precision and Confidence of Aquatic Eddy Correlation Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015 , 32, 642-655 | 2 | 28 |
| 38 | Biological- and physical-induced oxygen dynamics in melting sea ice of the Fram Strait. <i>Limnology and Oceanography</i> , 2014 , 59, 1097-1111 | 4.8 | 26 |
| 37 | Response of the Black Sea methane budget to massive short-term submarine inputs of methane. <i>Biogeosciences</i> , 2011 , 8, 911-918 | 4.6 | 26 |
| 36 | Influence of water column stratification and mixing patterns on the fate of methane produced in deep sediments of a small eutrophic lake. <i>Limnology and Oceanography</i> , 2019 , 64, 2114-2128 | 4.8 | 25 |
| 35 | Effect of Sediment Gas Voids and Ebullition on Benthic Solute Exchange. <i>Environmental Science & Technology</i> , 2015 , 49, 10413-20 | 10.3 | 25 |
| 34 | Methanotrophic microbial communities associated with bubble plumes above gas seeps in the Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a | 3.6 | 25 |
| 33 | Single bubble dissolution model □The graphical user interface SiBu-GUI. <i>Environmental Modelling and Software</i> , 2009 , 24, 1012-1013 | 5.2 | 24 |
| 32 | Physical controls of oxygen fluxes at pelagic and benthic oxyclines in a lake. <i>Limnology and Oceanography</i> , 2014 , 59, 1637-1650 | 4.8 | 21 |
| 31 | Methane emissions from a freshwater marsh in response to experimentally simulated global warming and nitrogen enrichment. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 21 |
| 30 | Assessing benthic oxygen fluxes in oligotrophic deep sea sediments (HAUSGARTEN observatory). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 111, 1-10 | 2.5 | 21 |
| 29 | Role of gas ebullition in the methane budget of a deep subtropical lake: What can we learn from process-based modeling?. <i>Limnology and Oceanography</i> , 2017 , 62, 2674-2698 | 4.8 | 20 |
| 28 | What the bubble knows: Lake methane dynamics revealed by sediment gas bubble composition. <i>Limnology and Oceanography</i> , 2019 , 64, 1526-1544 | 4.8 | 19 |
| 27 | Deconstructing Methane Emissions from a Small Northern European River: Hydrodynamics and Temperature as Key Drivers. <i>Environmental Science & Technology</i> , 2016 , 50, 11680-11687 | 10.3 | 19 |
| 26 | Effect of ship locking on sediment oxygen uptake in impounded rivers. <i>Water Resources Research</i> , 2012 , 48, | 5.4 | 17 |
| 25 | Noble gas anomalies related to high-intensity methane gas seeps in the Black Sea. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 396-409 | 5.3 | 17 |

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| 24 | Effects of methane outgassing on the Black Sea atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5173-5182 | 6.8 | 17 |
| 23 | Thermocline mixing and vertical oxygen fluxes in the stratified central North Sea. <i>Biogeosciences</i> , 2016 , 13, 1609-1620 | 4.6 | 13 |
| 22 | Porewater methane transport within the gas vesicles of diurnally migrating <i>Chaoborus</i> spp.: An energetic advantage. <i>Scientific Reports</i> , 2017 , 7, 44478 | 4.9 | 12 |
| 21 | Parameterization of atmosphere-surface exchange of CO ₂ over sea ice. <i>Cryosphere</i> , 2014 , 8, 853-866 | 5.5 | 12 |
| 20 | Bubble dynamics and oxygen transfer in a speece cone. <i>Water Science and Technology</i> , 1998 , 37, 285-292 | 2.2 | 5 |
| 19 | Artificially oxygenating the Swan River estuary increases dissolved oxygen concentrations in the water and at the sediment interface. <i>Ecological Engineering</i> , 2019 , 128, 112-121 | 3.9 | 11 |
| 18 | Nutrient retention in the Danube's Iron Gate reservoir. <i>Eos</i> , 2006 , 87, 385 | 1.5 | 11 |
| 17 | Oxygen fluxes beneath Arctic land-fast ice and pack ice: towards estimates of ice productivity. <i>Polar Biology</i> , 2018 , 41, 2119-2134 | 2 | 7 |
| 16 | Methane hydrate emergence from Lake Baikal: direct observations, modelling, and hydrate footprints in seasonal ice cover. <i>Scientific Reports</i> , 2019 , 9, 19361 | 4.9 | 6 |
| 15 | Methane emission offsets carbon dioxide uptake in a small productive lake. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 384-392 | 7.9 | 5 |
| 14 | Bubble dynamics and oxygen transfer in a speece cone. <i>Water Science and Technology</i> , 1998 , 37, 285 | 2.2 | 5 |
| 13 | Technical Note: Drifting vs. anchored flux chambers for measuring greenhouse gas emissions from running waters | | 5 |
| 12 | The Chaoborus pump: Migrating phantom midge larvae sustain hypolimnetic oxygen deficiency and nutrient internal loading in lakes. <i>Water Research</i> , 2017 , 122, 36-41 | 12.5 | 4 |
| 11 | The role of internal feedbacks in shifting deep lake mixing regimes under a warming climate. <i>Freshwater Biology</i> , 2021 , 66, 1021-1035 | 3.1 | 4 |
| 10 | The phantom midge menace: Migratory <i>Chaoborus</i> larvae maintain poor ecosystem state in eutrophic inland waters. <i>Water Research</i> , 2018 , 139, 30-37 | 12.5 | 3 |
| 9 | Reply to Toxic methanogenesis is only a minor source of lake-wide diffusive CH emissions from lakes. <i>Nature Communications</i> , 2021 , 12, 1205 | 17.4 | 3 |
| 8 | Determining Near-Bottom Fluxes of Passive Tracers in Aquatic Environments. <i>Geophysical Research Letters</i> , 2018 , 45, 2716-2725 | 4.9 | 2 |
| 7 | Preliminary Experiments and Modelling of the Fate of CO ₂ Bubbles in the Water Column Near Panarea Island (Italy). <i>Energy Procedia</i> , 2014 , 59, 397-403 | 2.3 | 2 |

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| 6 | Thermocline mixing and vertical oxygen fluxes in the stratified central North Sea | | 2 |
| 5 | Response of the Black Sea methane budget to massive short-term submarine inputs of methane | | 2 |
| 4 | Stratification strength and light climate explain variation in chlorophyll a at the continental scale in a European multilake survey in a heatwave summer. <i>Limnology and Oceanography</i> , 2021 , 66, 4314 | 4.8 | 2 |
| 3 | Thermal small steps staircase and layer migration in the Atlantis II Deep, Red Sea. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1 | 1.8 | 1 |
| 2 | Parameterization of atmosphere-surface exchange of CO ₂ over sea ice | | 1 |
| 1 | Potential role of submerged macrophytes for oxic methane production in aquatic ecosystems. <i>Limnology and Oceanography</i> , | 4.8 | 1 |