

Michael J Wilkins

List of Publications by Citations

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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.

47
papers

3,829
citations

25
h-index

54
g-index

54
ext. papers

5,307
ext. citations

9.6
avg, IF

4.94
L-index

| # | Paper | IF | Citations |
|----|---|-------|-----------|
| 47 | Unusual biology across a group comprising more than 15% of domain Bacteria. <i>Nature</i> , 2015 , 523, 208-115 | 150.4 | 688 |
| 46 | Thousands of microbial genomes shed light on interconnected biogeochemical processes in an aquifer system. <i>Nature Communications</i> , 2016 , 7, 13219 | 17.4 | 589 |
| 45 | Fermentation, hydrogen, and sulfur metabolism in multiple uncultivated bacterial phyla. <i>Science</i> , 2012 , 337, 1661-5 | 33.3 | 464 |
| 44 | Genomic expansion of domain archaea highlights roles for organisms from new phyla in anaerobic carbon cycling. <i>Current Biology</i> , 2015 , 25, 690-701 | 6.3 | 354 |
| 43 | Acetate Availability and its Influence on Sustainable Bioremediation of Uranium-Contaminated Groundwater. <i>Geomicrobiology Journal</i> , 2011 , 28, 519-539 | 2.5 | 201 |
| 42 | Groundwater-surface water mixing shifts ecological assembly processes and stimulates organic carbon turnover. <i>Nature Communications</i> , 2016 , 7, 11237 | 17.4 | 171 |
| 41 | Microbial metabolisms in a 2.5-km-deep ecosystem created by hydraulic fracturing in shales. <i>Nature Microbiology</i> , 2016 , 1, 16146 | 26.6 | 144 |
| 40 | Metabolic interdependencies between phylogenetically novel fermenters and respiratory organisms in an unconfined aquifer. <i>ISME Journal</i> , 2014 , 8, 1452-63 | 11.9 | 131 |
| 39 | Proteogenomic monitoring of <i>Geobacter</i> physiology during stimulated uranium bioremediation. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 6591-9 | 4.8 | 116 |
| 38 | Critical biogeochemical functions in the subsurface are associated with bacteria from new phyla and little studied lineages. <i>Environmental Microbiology</i> , 2016 , 18, 159-73 | 5.2 | 111 |
| 37 | Members of the Candidate Phyla Radiation are functionally differentiated by carbon- and nitrogen-cycling capabilities. <i>Microbiome</i> , 2017 , 5, 112 | 16.6 | 66 |
| 36 | RubisCO of a nucleoside pathway known from Archaea is found in diverse uncultivated phyla in bacteria. <i>ISME Journal</i> , 2016 , 10, 2702-2714 | 11.9 | 65 |
| 35 | Water Table Dynamics and Biogeochemical Cycling in a Shallow, Variably-Saturated Floodplain. <i>Environmental Science & Technology</i> , 2017 , 51, 3307-3317 | 10.3 | 62 |
| 34 | Characterization and transcription of arsenic respiration and resistance genes during in situ uranium bioremediation. <i>ISME Journal</i> , 2013 , 7, 370-83 | 11.9 | 62 |
| 33 | Influences of organic carbon speciation on hyporheic corridor biogeochemistry and microbial ecology. <i>Nature Communications</i> , 2018 , 9, 585 | 17.4 | 56 |
| 32 | Viruses control dominant bacteria colonizing the terrestrial deep biosphere after hydraulic fracturing. <i>Nature Microbiology</i> , 2019 , 4, 352-361 | 26.6 | 49 |
| 31 | Sulfide Generation by Dominant Microorganisms in Hydraulically Fractured Shales. <i>MSphere</i> , 2017 , 2, | 5 | 41 |

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| 30 | Abundant carbon substrates drive extremely high sulfate reduction rates and methane fluxes in Prairie Pothole Wetlands. <i>Global Change Biology</i> , 2017 , 23, 3107-3120 | 11.4 | 39 |
| 29 | Coupled laboratory and field investigations resolve microbial interactions that underpin persistence in hydraulically fractured shales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6585-E6594 | 11.5 | 35 |
| 28 | Microbial Community Cohesion Mediates Community Turnover in Unperturbed Aquifers. <i>MSystems</i> , 2018 , 3, | 7.6 | 34 |
| 27 | Seasonal hyporheic dynamics control coupled microbiology and geochemistry in Colorado River sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2976-2987 | 3.7 | 32 |
| 26 | Molecular analysis of the in situ growth rates of subsurface <i>Geobacter</i> species. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1646-53 | 4.8 | 32 |
| 25 | Viral and metabolic controls on high rates of microbial sulfur and carbon cycling in wetland ecosystems. <i>Microbiome</i> , 2018 , 6, 138 | 16.6 | 29 |
| 24 | Disturbed subsurface microbial communities follow equivalent trajectories despite different structural starting points. <i>Environmental Microbiology</i> , 2015 , 17, 622-36 | 5.2 | 28 |
| 23 | Trends and future challenges in sampling the deep terrestrial biosphere. <i>Frontiers in Microbiology</i> , 2014 , 5, 481 | 5.7 | 27 |
| 22 | CO2 exposure at pressure impacts metabolism and stress responses in the model sulfate-reducing bacterium <i>Desulfovibrio vulgaris</i> strain Hildenborough. <i>Frontiers in Microbiology</i> , 2014 , 5, 507 | 5.7 | 21 |
| 21 | Members of and Influence System Biogeochemistry During Early Production of Hydraulically Fractured Natural Gas Wells in the Appalachian Basin. <i>Frontiers in Microbiology</i> , 2018 , 9, 2646 | 5.7 | 20 |
| 20 | Genome-Resolved Metagenomics Extends the Environmental Distribution of the Phylum to the Deep Terrestrial Subsurface. <i>MSphere</i> , 2019 , 4, | 5 | 18 |
| 19 | Comparative genomics and physiology of the genus <i>Methanohalophilus</i> , a prevalent methanogen in hydraulically fractured shale. <i>Environmental Microbiology</i> , 2018 , 20, 4596-4611 | 5.2 | 16 |
| 18 | Snowmelt Induced Hydrologic Perturbations Drive Dynamic Microbiological and Geochemical Behaviors across a Shallow Riparian Aquifer. <i>Frontiers in Earth Science</i> , 2016 , 4, | 3.5 | 15 |
| 17 | In situ transformation of ethoxylate and glycol surfactants by shale-colonizing microorganisms during hydraulic fracturing. <i>ISME Journal</i> , 2019 , 13, 2690-2700 | 11.9 | 13 |
| 16 | Heterogeneity in Hyporheic Flow, Pore Water Chemistry, and Microbial Community Composition in an Alpine Streambed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3465-3478 | 3.7 | 11 |
| 15 | Anoxia stimulates microbially catalyzed metal release from Animas River sediments. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 578-585 | 4.3 | 10 |
| 14 | Hyporheic Zone Microbiome Assembly Is Linked to Dynamic Water Mixing Patterns in Snowmelt-Dominated Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3269-3280 | 3.7 | 10 |
| 13 | Deep-Subsurface Pressure Stimulates Metabolic Plasticity in Shale-Colonizing spp. <i>Applied and Environmental Microbiology</i> , 2019 , 85, | 4.8 | 9 |

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| 12 | Wetland Sediments Host Diverse Microbial Taxa Capable of Cycling Alcohols. <i>Applied and Environmental Microbiology</i> , 2019 , 85, | 4.8 | 7 |
| 11 | Seasonal manganese transport in the hyporheic zone of a snowmelt-dominated river (East River, Colorado, USA). <i>Hydrogeology Journal</i> , 2020 , 28, 1323-1341 | 3.1 | 7 |
| 10 | Capability for arsenic mobilization in groundwater is distributed across broad phylogenetic lineages. <i>PLoS ONE</i> , 2019 , 14, e0221694 | 3.7 | 6 |
| 9 | A Model Analysis of the Tidal Engine That Drives Nitrogen Cycling in Coastal Riparian Aquifers. <i>Water Resources Research</i> , 2020 , 56, e2019WR025662 | 5.4 | 6 |
| 8 | Ecological Assembly Processes Are Coordinated between Bacterial and Viral Communities in Fractured Shale Ecosystems. <i>MSystems</i> , 2020 , 5, | 7.6 | 6 |
| 7 | Identification of Persistent Sulfidogenic Bacteria in Shale Gas Produced Waters. <i>Frontiers in Microbiology</i> , 2020 , 11, 286 | 5.7 | 5 |
| 6 | Comparative geochemistry of flowback chemistry from the Utica/Point Pleasant and Marcellus formations. <i>Chemical Geology</i> , 2021 , 564, 120041 | 4.2 | 5 |
| 5 | Draft Genome Sequences of Multiple Strains Isolated from Hydraulically Fractured Shale Environments. <i>Genome Announcements</i> , 2017 , 5, | | 4 |
| 4 | Characterizing the Deep Terrestrial Subsurface Microbiome. <i>Methods in Molecular Biology</i> , 2018 , 1849, 1-15 | 1.4 | 3 |
| 3 | Borgs are giant extrachromosomal elements with the potential to augment methane oxidation | | 2 |
| 2 | Microbial colonization and persistence in deep fractured shales is guided by metabolic exchanges and viral predation.. <i>Microbiome</i> , 2022 , 10, 5 | 16.6 | 0 |
| 1 | Ice Cover Influences Redox Dynamics in Prairie Pothole Wetland Sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006318 | 3.7 | 0 |