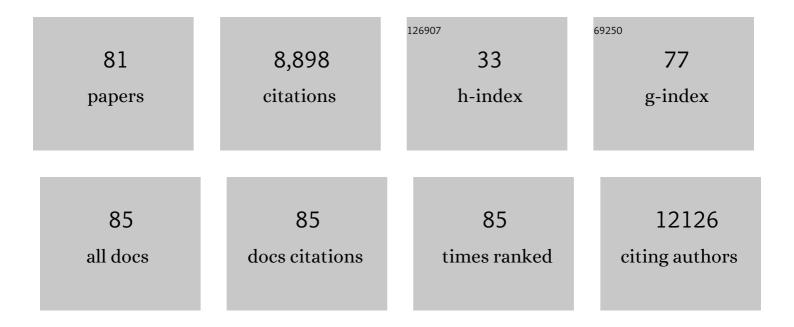
William T Sloan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Economic and environmental assessment of organic waste to biomethane conversion. Bioresource Technology, 2022, 345, 126500.	9.6	22
2	Biochemistry shapes growth kinetics of nitrifiers and defines their activity under specific environmental conditions. Biotechnology and Bioengineering, 2022, 119, 1290-1300.	3.3	3
3	Validating Flow Cytometry as a Method for Quantifying <i>Bdellovibrio</i> Predatory Bacteria and Its Prey for Microbial Ecology. Microbiology Spectrum, 2022, 10, e0103321.	3.0	3
4	Techno-economic feasibility of distributed waste-to-hydrogen systems to support green transport in Glasgow. International Journal of Hydrogen Energy, 2022, 47, 13532-13551.	7.1	11
5	The role of shear dynamics in biofilm formation. Npj Biofilms and Microbiomes, 2022, 8, 33.	6.4	18
6	Deploying an <i>In Vitro</i> Gut Model to Assay the Impact of the Mannan-Oligosaccharide Prebiotic Bio-Mos on the Atlantic Salmon (<i>Salmo salar</i>) Gut Microbiome. Microbiology Spectrum, 2022, 10, e0195321.	3.0	3
7	A comprehensive artificial neural network model for gasification process prediction. Applied Energy, 2022, 320, 119289.	10.1	21
8	Life cycle assessment of biodiesel production from rapeseed oil: Influence of process parameters and scale. Bioresource Technology, 2022, 360, 127532.	9.6	29
9	Drift dynamics in microbial communities and the effective community size. Environmental Microbiology, 2021, 23, 2473-2483.	3.8	10
10	SalmoSim: the development of a three-compartment in vitro simulator of the Atlantic salmon GI tract and associated microbial communities. Microbiome, 2021, 9, 179.	11.1	5
11	Genome erosion and evidence for an intracellular niche – exploring the biology of mycoplasmas in Atlantic salmon. Aquaculture, 2021, 541, 736772.	3.5	27
12	In vitro and in vivo characterisation of Listeria monocytogenes outbreak isolates. Food Control, 2020, 107, 106784.	5.5	19
13	Impact of industrial production system parameters on chicken microbiomes: mechanisms to improve performance and reduce Campylobacter. Microbiome, 2020, 8, 128.	11.1	38
14	â€~ <i>Solar septic tank</i> ': evaluation of innovative decentralized treatment of blackwater in developing countries. Journal of Water Sanitation and Hygiene for Development, 2020, 10, 828-840.	1.8	4
15	Impact of Methylobacterium in the drinking water microbiome on removal of trihalomethanes. International Biodeterioration and Biodegradation, 2019, 141, 10-16.	3.9	13
16	Engineering artificial thermal mountains for large-scale water management and carbon drawdown. Environmental Science: Water Research and Technology, 2019, 5, 296-314.	2.4	0
17	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	13.3	491
18	Bioactivities and genome insights of a thermotolerant antibioticsâ€producing Streptomyces sp. TM32 reveal its potentials for novel drug discovery. MicrobiologyOpen, 2019, 8, e842.	3.0	14

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19	Solar Septic Tank: Next Generation Sequencing Reveals Effluent Microbial Community Composition as a Useful Index of System Performance. Water (Switzerland), 2019, 11, 2660.	2.7	11
20	Herbicide-tolerant endophytic bacteria of rice plants as the biopriming agents for fertility recovery and disease suppression of unhealthy rice seeds. BMC Plant Biology, 2019, 19, 580.	3.6	22
21	Coupled virus - bacteria interactions and ecosystem function in an engineered microbial system. Water Research, 2019, 152, 264-273.	11.3	31
22	Neutral mechanisms and niche differentiation in steadyâ€ s tate insular microbial communities revealed by single cell analysis. Environmental Microbiology, 2019, 21, 164-181.	3.8	46
23	The Role of the Motility of Methylobacterium in Bacterial Interactions in Drinking Water. Water (Switzerland), 2018, 10, 1386.	2.7	8
24	The effect of metabolic stress on genome stability of a synthetic biology chassis Escherichia coli K12 strain. Microbial Cell Factories, 2018, 17, 8.	4.0	23
25	The active microbial community more accurately reflects the anaerobic digestion process: 16S rRNA (gene) sequencing as a predictive tool. Microbiome, 2018, 6, 63.	11.1	138
26	Single-Cell Microfluidics to Study the Effects of Genome Deletion on Bacterial Growth Behavior. ACS Synthetic Biology, 2017, 6, 2219-2227.	3.8	17
27	A Keystone Methylobacterium Strain in Biofilm Formation in Drinking Water. Water (Switzerland), 2017, 9, 778.	2.7	12
28	Bioreactor Scalability: Laboratory-Scale Bioreactor Design Influences Performance, Ecology, and Community Physiology in Expanded Granular Sludge Bed Bioreactors. Frontiers in Microbiology, 2017, 8, 664.	3.5	36
29	Biofilm community succession: a neutral perspective. Microbiology (United Kingdom), 2017, 163, 664-668.	1.8	25
30	Challenges in microbial ecology: building predictive understanding of community function and dynamics. ISME Journal, 2016, 10, 2557-2568.	9.8	570
31	Emerging investigators series: microbial communities in full-scale drinking water distribution systems – a meta-analysis. Environmental Science: Water Research and Technology, 2016, 2, 631-644.	2.4	98
32	The impact of sampling, PCR, and sequencing replication on discerning changes in drinking water bacterial community over diurnal time-scales. Water Research, 2016, 90, 216-224.	11.3	45
33	Probabilistic Models to Describe the Dynamics of Migrating Microbial Communities. PLoS ONE, 2015, 10, e0117221.	2.5	13
34	Insight into biases and sequencing errors for amplicon sequencing with the Illumina MiSeq platform. Nucleic Acids Research, 2015, 43, e37-e37.	14.5	626
35	Influence of biofilms on heavy metal immobilization in sustainable urban drainage systems (SuDS). Environmental Technology (United Kingdom), 2015, 36, 2803-2814.	2.2	10
36	Nanoparticle transport in saturated porous medium using magnetic resonance imaging. Chemical Engineering Journal, 2015, 266, 156-162.	12.7	14

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37	Metagenomic Sequencing Unravels Gene Fragments with Phylogenetic Signatures of O2-Tolerant NiFe Membrane-Bound Hydrogenases in Lacustrine Sediment. Current Microbiology, 2015, 71, 296-302.	2.2	1
38	Characterization of nanoparticle transport through quartz and dolomite gravels by magnetic resonance imaging. International Journal of Environmental Science and Technology, 2015, 12, 3373-3384.	3.5	7
39	Response to Effect of Serum Chloride on Mortality in Hypertensive Patients. Hypertension, 2014, 63, e15.	2.7	1
40	Fluvial network organization imprints on microbial co-occurrence networks. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12799-12804.	7.1	193
41	Family history of premature cardiovascular disease: blood pressure control and long-term mortality outcomes in hypertensive patients. European Heart Journal, 2014, 35, 563-570.	2.2	25
42	Predicting the effects of biochar on volatile petroleum hydrocarbon biodegradation and emanation from soil: A bacterial community finger-print analysis inferred modelling approach. Soil Biology and Biochemistry, 2014, 68, 20-30.	8.8	33
43	Spatial-Temporal Survey and Occupancy-Abundance Modeling To Predict Bacterial Community Dynamics in the Drinking Water Microbiome. MBio, 2014, 5, e01135-14.	4.1	160
44	Benchmarking of viral haplotype reconstruction programmes: an overview of the capacities and limitations of currently available programmes. Briefings in Bioinformatics, 2014, 15, 431-442.	6.5	59
45	Magnetic Resonance Imaging of Mass Transport and Structure Inside a Phototrophic Biofilm. Current Microbiology, 2013, 66, 456-461.	2.2	12
46	Serum Chloride Is an Independent Predictor of Mortality in Hypertensive Patients. Hypertension, 2013, 62, 836-843.	2.7	67
47	Blood Pressure Response to Patterns of Weather Fluctuations and Effect on Mortality. Hypertension, 2013, 62, 190-196.	2.7	47
48	Serum Uric Acid Level, Longitudinal Blood Pressure, Renal Function, and Long-Term Mortality in Treated Hypertensive Patients. Hypertension, 2013, 62, 105-111.	2.7	37
49	Headwaters are critical reservoirs of microbial diversity for fluvial networks. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131760.	2.6	153
50	Long-Term and Ultra Long–Term Blood Pressure Variability During Follow-Up and Mortality in 14 522 Patients With Hypertension. Hypertension, 2013, 62, 698-705.	2.7	81
51	Modelling the effects of dispersal mechanisms and hydrodynamic regimes upon the structure of microbial communities within fluvial biofilms. Environmental Microbiology, 2013, 15, 1216-1225.	3.8	22
52	Erosion of biofilm-bound fluvial sediments. Nature Geoscience, 2013, 6, 770-774.	12.9	65
53	Microbial community assembly, theory and rare functions. Frontiers in Microbiology, 2013, 4, 68.	3.5	74
54	Investigation of Nanoparticle Transport Inside Coarse-Grained Geological Media Using Magnetic Resonance Imaging. Environmental Science & Technology, 2012, 46, 360-366.	10.0	15

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55	Quantifying the tensile strength of microbial mats grown over noncohesive sediments. Biotechnology and Bioengineering, 2012, 109, 1155-1164.	3.3	21
56	Long-Term Outcome following Attendance at a Transient Ischemic Attack Clinic. International Journal of Stroke, 2011, 6, 306-311.	5.9	11
57	Sustainable wastewater treatment: How might microbial fuel cells contribute. Biotechnology Advances, 2010, 28, 871-881.	11.7	289
58	Application of Paramagnetically Tagged Molecules for Magnetic Resonance Imaging of Biofilm Mass Transport Processes. Applied and Environmental Microbiology, 2010, 76, 4027-4036.	3.1	16
59	Combined niche and neutral effects in a microbial wastewater treatment community. Proceedings of the United States of America, 2010, 107, 15345-15350.	7.1	504
60	Accurate determination of microbial diversity from 454 pyrosequencing data. Nature Methods, 2009, 6, 639-641.	19.0	895
61	The rational exploration of microbial diversity. ISME Journal, 2008, 2, 997-1006.	9.8	190
62	Predicting river flows for future climates using an autoregressive multinomial logit model. Water Resources Research, 2008, 44, .	4.2	15
63	Microbial landscapes: new paths to biofilm research. Nature Reviews Microbiology, 2007, 5, 76-81.	28.6	288
64	Neutral assembly of bacterial communities. FEMS Microbiology Ecology, 2007, 62, 171-180.	2.7	177
65	Modeling Taxa-Abundance Distributions in Microbial Communities using Environmental Sequence Data. Microbial Ecology, 2007, 53, 443-455.	2.8	151
66	Towards the design of diversity: stochastic models for community assembly in wastewater treatment plants. Water Science and Technology, 2006, 54, 227-236.	2.5	55
67	Taxa-area relationships for microbes: the unsampled and the unseen. Ecology Letters, 2006, 9, 805-812.	6.4	112
68	Quantifying the roles of immigration and chance in shaping prokaryote community structure. Environmental Microbiology, 2006, 8, 732-740.	3.8	971
69	What is the extent of prokaryotic diversity?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 2023-2037.	4.0	90
70	Exploring Microbial DiversityA Vast Below. Science, 2005, 309, 1331-1333.	12.6	181
71	Estimating bacterial diversity from clone libraries with flat rank abundance distributions. Environmental Microbiology, 2004, 6, 1081-1085.	3.8	23
72	Incorporating topographic variability into a simple regional snowmelt model. Hydrological Processes, 2004, 18, 3371-3390.	2.6	3

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73	Prokaryotic diversity and its limits: microbial community structure in nature and implications for microbial ecology. Current Opinion in Microbiology, 2004, 7, 221-226.	5.1	275
74	Estimating prokaryotic diversity and its limits. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10494-10499.	7.1	975
75	Theory, community assembly, diversity and evolution in the microbial world. , 2001, , 59-76.		1
76	A physics-based function for modeling transient groundwater discharge at the watershed scale. Water Resources Research, 2000, 36, 225-241.	4.2	54
77	Modelling long-term contaminant migration in a catchment at fine spatial and temporal scales using the UP system. Hydrological Processes, 1999, 13, 823-846.	2.6	4
78	A GIS framework for modelling nitrogen leaching from agricultural areas in the Middle Hills, Nepal. International Journal of Geographical Information Science, 1998, 12, 479-490.	4.8	9
79	Stream chemistry in the middle hills and high mountains of the Himalayas, Nepal. Journal of Hydrology, 1995, 166, 61-79.	5.4	43
80	A simple model of stream nitrate concentrations in forested and deforested catchments in Mid-Wales. Journal of Hydrology, 1994, 158, 61-78.	5.4	11
81	The Uncountables. , 0, , 33-54.		0