

# Christopher J Van Der Gast

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7708370/christopher-j-van-der-gast-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

66

papers

4,106

citations

36

h-index

64

g-index

72

ext. papers

4,770

ext. citations

7.8

avg, IF

5.24

L-index

#	Paper	IF	Citations
66	The role of ecological theory in microbial ecology. <i>Nature Reviews Microbiology</i> , <b>2007</b> , 5, 384-92	22.2	643
65	Bioaugmentation for bioremediation: the challenge of strain selection. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 909-15	5.2	279
64	The role of local environment and geographical distance in determining community composition of arbuscular mycorrhizal fungi at the landscape scale. <i>ISME Journal</i> , <b>2013</b> , 7, 498-508	11.9	189
63	Larger islands house more bacterial taxa. <i>Science</i> , <b>2005</b> , 308, 1884	33.3	178
62	Partitioning core and satellite taxa from within cystic fibrosis lung bacterial communities. <i>ISME Journal</i> , <b>2011</b> , 5, 780-91	11.9	177
61	Neutral assembly of bacterial communities. <i>FEMS Microbiology Ecology</i> , <b>2007</b> , 62, 171-80	4.3	151
60	Clinical measures of disease in adult non-CF bronchiectasis correlate with airway microbiota composition. <i>Thorax</i> , <b>2013</b> , 68, 731-7	7.3	149
59	Perspectives and vision for strain selection in bioaugmentation. <i>Trends in Biotechnology</i> , <b>2005</b> , 23, 74-7	15.1	114
58	Long-term cultivation-independent microbial diversity analysis demonstrates that bacterial communities infecting the adult cystic fibrosis lung show stability and resilience. <i>Thorax</i> , <b>2012</b> , 67, 867-73	7.3	111
57	Anthropogenic disturbance affects the structure of bacterial communities. <i>Environmental Microbiology</i> , <b>2010</b> , 12, 670-8	5.2	88
56	Temporal scaling of bacterial taxa is influenced by both stochastic and deterministic ecological factors. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 1411-8	5.2	88
55	The effect of electrokinetics on soil microbial communities. <i>Soil Biology and Biochemistry</i> , <b>2004</b> , 36, 1751-1760	17.60	87
54	The impact of zero-valent iron nanoparticles on a river water bacterial community. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 184, 73-80	12.8	85
53	The response of marine picoplankton to ocean acidification. <i>Environmental Microbiology</i> , <b>2012</b> , 14, 2293-307	3.07	83
52	Do patterns of bacterial diversity along salinity gradients differ from those observed for macroorganisms?. <i>PLoS ONE</i> , <b>2011</b> , 6, e27597	3.7	81
51	Spatial scaling of arbuscular mycorrhizal fungal diversity is affected by farming practice. <i>Environmental Microbiology</i> , <b>2011</b> , 13, 241-249	5.2	80
50	Bacterioplankton community diversity in a maritime Antarctic lake, determined by culture-dependent and culture-independent techniques. <i>FEMS Microbiology Ecology</i> , <b>2003</b> , 45, 59-70	4.3	74

49	Bacterial community structure and function in a metal-working fluid. <i>Environmental Microbiology</i> , <b>2003</b> , 5, 453-61	5.2	70
48	Three clinically distinct chronic pediatric airway infections share a common core microbiota. <i>Annals of the American Thoracic Society</i> , <b>2014</b> , 11, 1039-48	4.7	69
47	Respiratory microbiota resistance and resilience to pulmonary exacerbation and subsequent antimicrobial intervention. <i>ISME Journal</i> , <b>2016</b> , 10, 1081-91	11.9	68
46	Reducing bias in bacterial community analysis of lower respiratory infections. <i>ISME Journal</i> , <b>2013</b> , 7, 697-706	11.9	66
45	Temporal dynamics and degradation activity of an bacterial inoculum for treating waste metal-working fluid. <i>Environmental Microbiology</i> , <b>2004</b> , 6, 254-63	5.2	60
44	Evolutionary divergence and biogeography of sympatric niche-differentiated bacterial populations. <i>ISME Journal</i> , <b>2010</b> , 4, 488-97	11.9	52
43	Bacterial community assembly and turnover within the intestines of developing zebrafish. <i>PLoS ONE</i> , <b>2012</b> , 7, e30603	3.7	52
42	Siblings of patients with Crohn's disease exhibit a biologically relevant dysbiosis in mucosal microbial metacommunities. <i>Gut</i> , <b>2016</b> , 65, 944-53	19.2	49
41	Impact of antibiotic treatment for pulmonary exacerbations on bacterial diversity in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , <b>2013</b> , 12, 22-8	4.1	47
40	Long-term changes in soil microbial communities during primary succession. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 69, 359-370	7.5	46
39	Bacteria and island biogeography. <i>Science</i> , <b>2005</b> , 309, 1997-9; author reply 1997-9	33.3	45
38	Identification and characterisation of bacterial populations of an in-use metal-working fluid by phenotypic and genotypic methodology. <i>International Biodeterioration and Biodegradation</i> , <b>2001</b> , 47, 113-123	4.8	45
37	Lung function and microbiota diversity in cystic fibrosis. <i>Microbiome</i> , <b>2020</b> , 8, 45	16.6	44
36	Impact of transgenic tobacco on trinitrotoluene (TNT) contaminated soil community. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 5854-61	10.3	44
35	Predominant pathogen competition and core microbiota divergence in chronic airway infection. <i>ISME Journal</i> , <b>2015</b> , 9, 217-25	11.9	43
34	Determining cystic fibrosis-affected lung microbiology: comparison of spontaneous and serially induced sputum samples by use of terminal restriction fragment length polymorphism profiling. <i>Journal of Clinical Microbiology</i> , <b>2010</b> , 48, 78-86	9.7	43
33	Island size and bacterial diversity in an archipelago of engineering machines. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1220-6	5.2	43
32	Bacterial diversity is determined by volume in membrane bioreactors. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 1048-55	5.2	42

31	Significant changes in the bacterioplankton community structure of a maritime Antarctic freshwater lake following nutrient enrichment. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 3237-3248	2.9	36
30	Extreme rainfall affects assembly of the root-associated fungal community. <i>New Phytologist</i> , <b>2018</b> , 220, 1172-1184	9.8	35
29	Bioaugmentation strategies for remediating mixed chemical effluents. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 1156-61	2.8	31
28	How do we compare hundreds of bacterial genomes?. <i>Current Opinion in Microbiology</i> , <b>2006</b> , 9, 499-504	7.9	30
27	Reducing Viability Bias in Analysis of Gut Microbiota in Preterm Infants at Risk of NEC and Sepsis. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2017</b> , 7, 237	5.9	29
26	Time between collection and storage significantly influences bacterial sequence composition in sputum samples from cystic fibrosis respiratory infections. <i>Journal of Clinical Microbiology</i> , <b>2014</b> , 52, 3011-6	9.7	27
25	The gut microbiota of siblings offers insights into microbial pathogenesis of inflammatory bowel disease. <i>Gut Microbes</i> , <b>2017</b> , 8, 359-365	8.8	26
24	Marine bacterial communities are resistant to elevated carbon dioxide levels. <i>Environmental Microbiology Reports</i> , <b>2014</b> , 6, 574-82	3.7	25
23	Ascitic microbiota composition is correlated with clinical severity in cirrhosis with portal hypertension. <i>PLoS ONE</i> , <b>2013</b> , 8, e74884	3.7	25
22	Temporally Variable Geographical Distance Effects Contribute to the Assembly of Root-Associated Fungal Communities. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 195	5.7	25
21	Effects of pH amendment on metal working fluid wastewater biological treatment using a defined bacterial consortium. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 89, 357-66	4.9	22
20	Helminth burden and ecological factors associated with alterations in wild host gastrointestinal microbiota. <i>ISME Journal</i> , <b>2017</b> , 11, 663-675	11.9	20
19	Implications of multiple freeze-thawing on respiratory samples for culture-independent analyses. <i>Journal of Cystic Fibrosis</i> , <b>2015</b> , 14, 464-7	4.1	20
18	Converting highly productive arable cropland in Europe to grassland: -a poor candidate for carbon sequestration. <i>Scientific Reports</i> , <b>2017</b> , 7, 10493	4.9	18
17	The role of microbial community composition and groundwater chemistry in determining isoproturon degradation potential in UK aquifers. <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 49, 71-82	4.3	14
16	Spatio-Temporal Variation of Core and Satellite Arbuscular Mycorrhizal Fungus Communities in <i>Miscanthus giganteus</i> . <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1278	5.7	13
15	Exploring the putative interactions between chronic kidney disease and chronic periodontitis. <i>Critical Reviews in Microbiology</i> , <b>2020</b> , 46, 61-77	7.8	12
14	Enhanced biological treatment of spent metalworking fluids by prior removal of a polymer. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2006</b> , 81, 1540-1546	3.5	12

13	Islands shaping thought in microbial ecology. <i>Advances in Applied Microbiology</i> , <b>2008</b> , 64, 167-82	4.9	10
12	Plant Rhizosphere Selection of Plasmodiophorid Lineages from Bulk Soil: The Importance of "Hidden" Diversity. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 168	5.7	7
11	Rearing and foraging affects bumblebee ( <i>Bombus terrestris</i> ) gut microbiota. <i>Environmental Microbiology Reports</i> , <b>2015</b> , 7, 634-41	3.7	7
10	Acquisition and Development of the Extremely Preterm Infant Microbiota Across Multiple Anatomical Sites. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2020</b> , 70, 12-19	2.8	7
9	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. <i>MBio</i> , <b>2021</b> , 12, e0176321	7.8	7
8	Identification of microbial signatures linked to oilseed rape yield decline at the landscape scale. <i>Microbiome</i> , <b>2021</b> , 9, 19	16.6	6
7	Spatial and temporal variability in the potential of river water biofilms to degrade p-nitrophenol. <i>Chemosphere</i> , <b>2016</b> , 164, 355-362	8.4	3
6	Bacterial communities in larger islands have reduced temporal turnover. <i>ISME Journal</i> , <b>2021</b> , 15, 2947-2955	5.5	2
5	Mild Cystic Fibrosis Lung Disease Is Associated with Bacterial Community Stability. <i>Microbiology Spectrum</i> , <b>2021</b> , 9, e0002921	8.9	2
4	Response: Commentary: Reducing Viability Bias in Analysis of Gut Microbiota in Preterm Infants at Risk of NEC and Sepsis. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 374	5.9	1
3	Intestinal function and transit associate with gut microbiota dysbiosis in cystic fibrosis.. <i>Journal of Cystic Fibrosis</i> , <b>2021</b> ,	4.1	1
2	Reproducibility of Bacterial Cellulose Nanofibers Over Sub-Cultured Generations for the Development of Novel Textiles.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 876822	5.8	1
1	Bacterial Signatures of Paediatric Respiratory Disease: An Individual Participant Data Meta-Analysis.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 711134	5.7	0