Christopher J Van Der Gast

List of Publications by Year in Descending Order

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	Reproducibility of Bacterial Cellulose Nanofibers Over Sub-Cultured Generations for the Development of Novel Textiles.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 876822	5.8	1
65	Bacterial Signatures of Paediatric Respiratory Disease: An Individual Participant Data Meta-Analysis.. *Frontiers in Microbiology*, **2021**, 12, 711134	5.7	0
64	Bacterial communities in larger islands have reduced temporal turnover. *ISME Journal*, **2021**, 15, 2947-2955	11.9	2
63	Identification of microbial signatures linked to oilseed rape yield decline at the landscape scale. *Microbiome*, **2021**, 9, 19	16.6	6
62	Mild Cystic Fibrosis Lung Disease Is Associated with Bacterial Community Stability. *Microbiology Spectrum*, **2021**, 9, e0002921	8.9	2
61	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. *MBio*, **2021**, 12, e0176321	7.8	7
60	Intestinal function and transit associate with gut microbiota dysbiosis in cystic fibrosis.. *Journal of Cystic Fibrosis*, **2021**,	4.1	1
59	Lung function and microbiota diversity in cystic fibrosis. *Microbiome*, **2020**, 8, 45	16.6	44
58	Exploring the putative interactions between chronic kidney disease and chronic periodontitis. *Critical Reviews in Microbiology*, **2020**, 46, 61-77	7.8	12
57	Acquisition and Development of the Extremely Preterm Infant Microbiota Across Multiple Anatomical Sites. *Journal of Pediatric Gastroenterology and Nutrition*, **2020**, 70, 12-19	2.8	7
56	Extreme rainfall affects assembly of the root-associated fungal community. *New Phytologist*, **2018**, 220, 1172-1184	9.8	35
55	Plant Rhizosphere Selection of Plasmodiophorid Lineages from Bulk Soil: The Importance of "Hidden" Diversity. *Frontiers in Microbiology*, **2018**, 9, 168	5.7	7
54	Response: Commentary: Reducing Viability Bias in Analysis of Gut Microbiota in Preterm Infants at Risk of NEC and Sepsis. *Frontiers in Cellular and Infection Microbiology*, **2018**, 8, 374	5.9	1
53	The gut microbiota of siblings offers insights into microbial pathogenesis of inflammatory bowel disease. *Gut Microbes*, **2017**, 8, 359-365	8.8	26
52	Helminth burden and ecological factors associated with alterations in wild host gastrointestinal microbiota. *ISME Journal*, **2017**, 11, 663-675	11.9	20
51	Converting highly productive arable cropland in Europe to grassland: -a poor candidate for carbon sequestration. *Scientific Reports*, **2017**, 7, 10493	4.9	18
50	Reducing Viability Bias in Analysis of Gut Microbiota in Preterm Infants at Risk of NEC and Sepsis. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 237	5.9	29

49	Siblings of patients with Crohn's disease exhibit a biologically relevant dysbiosis in mucosal microbial metacommunities. *Gut*, **2016**, 65, 944-53	19.2	49
48	Respiratory microbiota resistance and resilience to pulmonary exacerbation and subsequent antimicrobial intervention. *ISME Journal*, **2016**, 10, 1081-91	11.9	68
47	Temporally Variable Geographical Distance Effects Contribute to the Assembly of Root-Associated Fungal Communities. *Frontiers in Microbiology*, **2016**, 7, 195	5.7	25
46	Spatio-Temporal Variation of Core and Satellite Arbuscular Mycorrhizal Fungus Communities in Miscanthus giganteus. *Frontiers in Microbiology*, **2016**, 7, 1278	5.7	13
45	Spatial and temporal variability in the potential of river water biofilms to degrade p-nitrophenol. *Chemosphere*, **2016**, 164, 355-362	8.4	3
44	Predominant pathogen competition and core microbiota divergence in chronic airway infection. *ISME Journal*, **2015**, 9, 217-25	11.9	43
43	Rearing and foraging affects bumblebee (Bombus terrestris) gut microbiota. *Environmental Microbiology Reports*, **2015**, 7, 634-41	3.7	7
42	Implications of multiple freeze-thawing on respiratory samples for culture-independent analyses. *Journal of Cystic Fibrosis*, **2015**, 14, 464-7	4.1	20
41	Long-term changes in soil microbial communities during primary succession. *Soil Biology and Biochemistry*, **2014**, 69, 359-370	7.5	46
40	Three clinically distinct chronic pediatric airway infections share a common core microbiota. *Annals of the American Thoracic Society*, **2014**, 11, 1039-48	4.7	69
39	Time between collection and storage significantly influences bacterial sequence composition in sputum samples from cystic fibrosis respiratory infections. *Journal of Clinical Microbiology*, **2014**, 52, 3011-6	9.7	27
38	Marine bacterial communities are resistant to elevated carbon dioxide levels. *Environmental Microbiology Reports*, **2014**, 6, 574-82	3.7	25
37	Clinical measures of disease in adult non-CF bronchiectasis correlate with airway microbiota composition. *Thorax*, **2013**, 68, 731-7	7.3	149
36	The role of local environment and geographical distance in determining community composition of arbuscular mycorrhizal fungi at the landscape scale. *ISME Journal*, **2013**, 7, 498-508	11.9	189
35	Reducing bias in bacterial community analysis of lower respiratory infections. *ISME Journal*, **2013**, 7, 697-706	11.9	66
34	Impact of antibiotic treatment for pulmonary exacerbations on bacterial diversity in cystic fibrosis. *Journal of Cystic Fibrosis*, **2013**, 12, 22-8	4.1	47
33	Ascitic microbiota composition is correlated with clinical severity in cirrhosis with portal hypertension. *PLoS ONE*, **2013**, 8, e74884	3.7	25
32	The response of marine picoplankton to ocean acidification. *Environmental Microbiology*, **2012**, 14, 2293-307	5.1	83

31	Long-term cultivation-independent microbial diversity analysis demonstrates that bacterial communities infecting the adult cystic fibrosis lung show stability and resilience. *Thorax*, **2012**, 67, 867-73	7.3	111
30	Bacterial community assembly and turnover within the intestines of developing zebrafish. *PLoS ONE*, **2012**, 7, e30603	3.7	52
29	Spatial scaling of arbuscular mycorrhizal fungal diversity is affected by farming practice. *Environmental Microbiology*, **2011**, 13, 241-249	5.2	80
28	Partitioning core and satellite taxa from within cystic fibrosis lung bacterial communities. *ISME Journal*, **2011**, 5, 780-91	11.9	177
27	Do patterns of bacterial diversity along salinity gradients differ from those observed for macroorganisms?. *PLoS ONE*, **2011**, 6, e27597	3.7	81
26	Evolutionary divergence and biogeography of sympatric niche-differentiated bacterial populations. *ISME Journal*, **2010**, 4, 488-97	11.9	52
25	Anthropogenic disturbance affects the structure of bacterial communities. *Environmental Microbiology*, **2010**, 12, 670-8	5.2	88
24	Determining cystic fibrosis-affected lung microbiology: comparison of spontaneous and serially induced sputum samples by use of terminal restriction fragment length polymorphism profiling. *Journal of Clinical Microbiology*, **2010**, 48, 78-86	9.7	43
23	The impact of zero-valent iron nanoparticles on a river water bacterial community. *Journal of Hazardous Materials*, **2010**, 184, 73-80	12.8	85
22	Temporal scaling of bacterial taxa is influenced by both stochastic and deterministic ecological factors. *Environmental Microbiology*, **2008**, 10, 1411-8	5.2	88
21	Islands shaping thought in microbial ecology. *Advances in Applied Microbiology*, **2008**, 64, 167-82	4.9	10
20	Impact of transgenic tobacco on trinitrotoluene (TNT) contaminated soil community. *Environmental Science & Technology*, **2007**, 41, 5854-61	10.3	44
19	The role of ecological theory in microbial ecology. *Nature Reviews Microbiology*, **2007**, 5, 384-92	22.2	643
18	Neutral assembly of bacterial communities. *FEMS Microbiology Ecology*, **2007**, 62, 171-80	4.3	151
17	Enhanced biological treatment of spent metalworking fluids by prior removal of a polymer. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 1540-1546	3.5	12
16	How do we compare hundreds of bacterial genomes?. *Current Opinion in Microbiology*, **2006**, 9, 499-504	7.9	30
15	Bacterial diversity is determined by volume in membrane bioreactors. *Environmental Microbiology*, **2006**, 8, 1048-55	5.2	42
14	Larger islands house more bacterial taxa. *Science*, **2005**, 308, 1884	33.3	178

13	Bacteria and island biogeography. *Science*, **2005**, 309, 1997-9; author reply 1997-9	33.3	45
12	Island size and bacterial diversity in an archipelago of engineering machines. *Environmental Microbiology*, **2005**, 7, 1220-6	5.2	43
11	Bioaugmentation for bioremediation: the challenge of strain selection. *Environmental Microbiology*, **2005**, 7, 909-15	5.2	279
10	Perspectives and vision for strain selection in bioaugmentation. *Trends in Biotechnology*, **2005**, 23, 74-7	15.1	114
9	Effects of pH amendment on metal working fluid wastewater biological treatment using a defined bacterial consortium. *Biotechnology and Bioengineering*, **2005**, 89, 357-66	4.9	22
8	Significant changes in the bacterioplankton community structure of a maritime Antarctic freshwater lake following nutrient enrichment. *Microbiology (United Kingdom)*, **2005**, 151, 3237-3248	2.9	36
7	Temporal dynamics and degradation activity of an bacterial inoculum for treating waste metal-working fluid. *Environmental Microbiology*, **2004**, 6, 254-63	5.2	60
6	The effect of electrokinetics on soil microbial communities. *Soil Biology and Biochemistry*, **2004**, 36, 1751-1760	3.7	87
5	The role of microbial community composition and groundwater chemistry in determining isoproturon degradation potential in UK aquifers. *FEMS Microbiology Ecology*, **2004**, 49, 71-82	4.3	14
4	Bioaugmentation strategies for remediating mixed chemical effluents. *Biotechnology Progress*, **2003**, 19, 1156-61	2.8	31
3	Bacterioplankton community diversity in a maritime Antarctic lake, determined by culture-dependent and culture-independent techniques. *FEMS Microbiology Ecology*, **2003**, 45, 59-70	4.3	74
2	Bacterial community structure and function in a metal-working fluid. *Environmental Microbiology*, **2003**, 5, 453-61	5.2	70
1	Identification and characterisation of bacterial populations of an in-use metal-working fluid by phenotypic and genotypic methodology. *International Biodeterioration and Biodegradation*, **2001**, 47, 113-123	4.8	45