

Simon van Vliet

List of Publications by Year in descending order

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933447
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28
all docs

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docs citations

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times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Global dynamics of microbial communities emerge from local interaction rules. PLoS Computational Biology, 2022, 18, e1009877.	3.2	13
2	Frequency modulation of a bacterial quorum sensing response. Nature Communications, 2022, 13, 2772.	12.8	10
3	Multilevel selection favors fragmentation modes that maintain cooperative interactions in multispecies communities. PLoS Computational Biology, 2021, 17, e1008896.	3.2	9
4	Microfluidics for Single-Cell Study of Antibiotic Tolerance and Persistence Induced by Nutrient Limitation. Methods in Molecular Biology, 2021, 2357, 107-124.	0.9	3
5	Reply to Daybog and Kolodny: Necessary requirements for holobiont-level selection are robust to model assumptions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11864-11864.	7.1	0
6	Short-range interactions govern the dynamics and functions of microbial communities. Nature Ecology and Evolution, 2020, 4, 366-375.	7.8	172
7	Metabolic activity affects the response of single cells to a nutrient switch in structured populations. Journal of the Royal Society Interface, 2019, 16, 20190182.	3.4	36
8	Emergent microscale gradients give rise to metabolic cross-feeding and antibiotic tolerance in clonal bacterial populations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190080.	4.0	74
9	The role of multilevel selection in host microbiome evolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20591-20597.	7.1	72
10	Spatially Correlated Gene Expression in Bacterial Groups: The Role of Lineage History, Spatial Gradients, and Cell-Cell Interactions. Cell Systems, 2018, 6, 496-507.e6.	6.2	59
11	Generality of associations between biological richness and the rates of metabolic processes across microbial communities. Environmental Microbiology, 2018, 20, 4356-4368.	3.8	11
12	Bet-hedging in bacteriocin producing Escherichia coli populations: the single cell perspective. Scientific Reports, 2017, 7, 42068.	3.3	26
13	Stochastic gene expression: bacterial elites in chemotaxis. Molecular Systems Biology, 2017, 13, 909.	7.2	4
14	Bacterial Ventures into Multicellularity: Collectivism through Individuality. PLoS Biology, 2015, 13, e1002162.	5.6	22
15	Bacterial Dormancy: How to Decide When to Wake Up. Current Biology, 2015, 25, R753-R755.	3.9	27
16	The effects of chemical interactions and culture history on the colonization of structured habitats by competing bacterial populations. BMC Microbiology, 2014, 14, 116.	3.3	22
17	Enhancement of quasiparticle recombination in Ta and Al superconductors by implantation of magnetic and nonmagnetic atoms. Physical Review B, 2009, 79, .	3.2	38
18	Quasiparticle relaxation in high Q superconducting resonators. Journal of Physics: Conference Series, 2009, 150, 052016.	0.4	0