

# Ophelia S Venturelli

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8234412/publications.pdf>

Version: 2024-02-01

19  
papers

1,498  
citations

623574

14  
h-index

839398

18  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deciphering microbial interactions in synthetic human gut microbiome communities. <i>Molecular Systems Biology</i> , 2018, 14, e8157.	3.2	361
2	Common principles and best practices for engineering microbiomes. <i>Nature Reviews Microbiology</i> , 2019, 17, 725-741.	13.6	324
3	Population Diversification in a Yeast Metabolic Program Promotes Anticipation of Environmental Shifts. <i>PLoS Biology</i> , 2015, 13, e1002042.	2.6	110
4	Microbial Interaction Network Inference in Microfluidic Droplets. <i>Cell Systems</i> , 2019, 9, 229-242.e4.	2.9	91
5	EcoFABs: advancing microbiome science through standardized fabricated ecosystems. <i>Nature Methods</i> , 2019, 16, 567-571.	9.0	90
6	Design of synthetic human gut microbiome assembly and butyrate production. <i>Nature Communications</i> , 2021, 12, 3254.	5.8	83
7	Synergistic dual positive feedback loops established by molecular sequestration generate robust bimodal response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3324-33.	3.3	76
8	Investigating the dynamics of microbial consortia in spatially structured environments. <i>Nature Communications</i> , 2020, 11, 2418.	5.8	60
9	Programming mRNA decay to modulate synthetic circuit resource allocation. <i>Nature Communications</i> , 2017, 8, 15128.	5.8	50
10	Polysaccharide utilization loci in <i>Bacteroides</i> determine population fitness and community-level interactions. <i>Cell Host and Microbe</i> , 2022, 30, 200-215.e12.	5.1	40
11	Towards Engineering Biological Systems in a Broader Context. <i>Journal of Molecular Biology</i> , 2016, 428, 928-944.	2.0	30
12	Negative interactions determine <i>Clostridioides difficile</i> growth in synthetic human gut communities. <i>Molecular Systems Biology</i> , 2021, 17, e10355.	3.2	27
13	Towards a deeper understanding of microbial communities: integrating experimental data with dynamic models. <i>Current Opinion in Microbiology</i> , 2021, 62, 84-92.	2.3	24
14	Understanding and Engineering Distributed Biochemical Pathways in Microbial Communities. <i>Biochemistry</i> , 2019, 58, 94-107.	1.2	23
15	Integrating Systems and Synthetic Biology to Understand and Engineer Microbiomes. <i>Annual Review of Biomedical Engineering</i> , 2021, 23, 169-201.	5.7	23
16	Recurrent neural networks enable design of multifunctional synthetic human gut microbiome dynamics. <i>ELife</i> , 0, 11, .	2.8	18
17	Scalable nonlinear programming framework for parameter estimation in dynamic biological system models. <i>PLoS Computational Biology</i> , 2019, 15, e1006828.	1.5	14
18	The Impact of Different Sources of Fluctuations on Mutual Information in Biochemical Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004462.	1.5	8

#	ARTICLE	IF	CITATIONS
19	Underâ€œil Autonomously Regulated Oxygen Microenvironments: A Goldilocks Principleâ€œBased Approach for Microscale Cell Culture. <i>Advanced Science</i> , 2022, 9, e2104510.	5.6	8