

# Ophelia S Venturelli

## List of Publications by Year in Descending Order

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

23  
papers

682  
citations

11  
h-index

26  
g-index

33  
ext. papers

1,159  
ext. citations

12.1  
avg, IF

4.26  
L-index

#	Paper	IF	Citations
23	Under-Oil Autonomously Regulated Oxygen Microenvironments: A Goldilocks Principle-Based Approach for Microscale Cell Culture.. <i>Advanced Science</i> , <b>2022</b> , e2104510	13.6	2
22	Negative interactions determine <i>Clostridioides difficile</i> growth in synthetic human gut communities. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10355	12.2	2
21	Integrating Systems and Synthetic Biology to Understand and Engineer Microbiomes. <i>Annual Review of Biomedical Engineering</i> , <b>2021</b> , 23, 169-201	12	9
20	Design of synthetic human gut microbiome assembly and butyrate production. <i>Nature Communications</i> , <b>2021</b> , 12, 3254	17.4	18
19	Towards a deeper understanding of microbial communities: integrating experimental data with dynamic models. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 62, 84-92	7.9	4
18	Investigating the dynamics of microbial consortia in spatially structured environments. <i>Nature Communications</i> , <b>2020</b> , 11, 2418	17.4	27
17	Microbial Interaction Network Inference in Microfluidic Droplets. <i>Cell Systems</i> , <b>2019</b> , 9, 229-242.e4	10.6	42
16	Common principles and best practices for engineering microbiomes. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 725-741	22.2	144
15	EcoFABs: advancing microbiome science through standardized fabricated ecosystems. <i>Nature Methods</i> , <b>2019</b> , 16, 567-571	21.6	39
14	Scalable nonlinear programming framework for parameter estimation in dynamic biological system models. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006828	5	8
13	Understanding and Engineering Distributed Biochemical Pathways in Microbial Communities. <i>Biochemistry</i> , <b>2019</b> , 58, 94-107	3.2	12
12	Deciphering microbial interactions in synthetic human gut microbiome communities. <i>Molecular Systems Biology</i> , <b>2018</b> , 14, e8157	12.2	185
11	Programming mRNA decay to modulate synthetic circuit resource allocation. <i>Nature Communications</i> , <b>2017</b> , 8, 15128	17.4	39
10	Towards Engineering Biological Systems in a Broader Context. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 928-44	6.5	21
9	Population diversification in a yeast metabolic program promotes anticipation of environmental shifts. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002042	9.7	67
8	The Impact of Different Sources of Fluctuations on Mutual Information in Biochemical Networks. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004462	5	6
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> , <b>2012</b> , 109, E3324-33	11.5	43

6	Scalable Nonlinear Programming Framework for Parameter Estimation in Dynamic Biological System Models	1
5	Design of synthetic human gut microbiome assembly and function	4
4	Deciphering microbial interactions in synthetic human gut microbiome communities	2
3	Rapid microbial interaction network inference in microfluidic droplets	2
2	Species richness determines <i>C. difficile</i> invasion outcome in synthetic human gut communities	1
1	Deep Learning Enables Design of Multifunctional Synthetic Human Gut Microbiome Dynamics	1