

Ophelia S Venturelli

List of Publications by Citations

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

6	Negative interactions determine <i>Clostridioides difficile</i> growth in synthetic human gut communities. <i>Molecular Systems Biology</i> , 2021 , 17, e10355	12.2	2
5	Deciphering microbial interactions in synthetic human gut microbiome communities		2
4	Rapid microbial interaction network inference in microfluidic droplets		2
3	Scalable Nonlinear Programming Framework for Parameter Estimation in Dynamic Biological System Models		1
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