Alvaro Sanchez

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.

1,855 19 42 g-index

62 2,736 10.2 5.47 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
48	Emergent simplicity in microbial community assembly. <i>Science</i> , 2018 , 361, 469-474	33.3	348
47	Genetic determinants and cellular constraints in noisy gene expression. <i>Science</i> , 2013 , 342, 1188-93	33.3	290
46	feedback between population and evolutionary dynamics determines the fate of social microbial populations. <i>PLoS Biology</i> , 2013 , 11, e1001547	9.7	141
45	Regulation of noise in gene expression. <i>Annual Review of Biophysics</i> , 2013 , 42, 469-91	21.1	134
44	Transcriptional control of noise in gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5081-6	11.5	114
43	Effect of promoter architecture on the cell-to-cell variability in gene expression. <i>PLoS Computational Biology</i> , 2011 , 7, e1001100	5	101
42	Operator sequence alters gene expression independently of transcription factor occupancy in bacteria. <i>Cell Reports</i> , 2012 , 2, 150-61	10.6	52
41	High-order interactions distort the functional landscape of microbial consortia. <i>PLoS Biology</i> , 2019 , 17, e3000550	9.7	52
40	Available energy fluxes drive a transition in the diversity, stability, and functional structure of microbial communities. <i>PLoS Computational Biology</i> , 2019 , 15, e1006793	5	47
39	Molecular brightness determined from a generalized form of Mandel & Q-parameter. <i>Biophysical Journal</i> , 2005 , 89, 3531-47	2.9	41
38	Combinatorial Gene Regulation through Kinetic Control of the Transcription Cycle. <i>Cell Systems</i> , 2017 , 4, 97-108.e9	10.6	39
37	Deciphering Transcriptional Dynamics In Vivo by Counting Nascent RNA Molecules. <i>PLoS Computational Biology</i> , 2015 , 11, e1004345	5	39
36	Stochastic models of transcription: from single molecules to single cells. <i>Methods</i> , 2013 , 62, 13-25	4.6	38
35	Transcription by the numbers redux: experiments and calculations that surprise. <i>Trends in Cell Biology</i> , 2010 , 20, 723-33	18.3	35
34	Dynamics of a producer-freeloader ecosystem on the brink of collapse. <i>Nature Communications</i> , 2014 , 5, 3713	17.4	30
33	Mechanism of transcriptional repression at a bacterial promoter by analysis of single molecules. <i>EMBO Journal</i> , 2011 , 30, 3940-6	13	27
32	On the deformability of an empirical fitness landscape by microbial evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11286-11291	11.5	26

(2020-2014)

31	Eco-evolutionary dynamics of complex social strategies in microbial communities. <i>Communicative and Integrative Biology</i> , 2014 , 7, e28230	1.7	23	
30	Metabolic rules of microbial community assembly		21	
29	Cooperators trade off ecological resilience and evolutionary stability in public goods games. Journal of the Royal Society Interface, 2017, 14,	4.1	18	
28	High-order interactions dominate the functional landscape of microbial consortia		17	
27	The ecology and evolution of microbial metabolic strategies. <i>Current Opinion in Biotechnology</i> , 2020 , 62, 123-128	11.4	17	
26	Phenotypic states become increasingly sensitive to perturbations near a bifurcation in a synthetic gene network. <i>ELife</i> , 2015 , 4,	8.9	16	
25	Cohesiveness in microbial community coalescence		16	
24	Directed Evolution of Microbial Communities. <i>Annual Review of Biophysics</i> , 2021 , 50, 323-341	21.1	15	
23	Emergent Simplicity in Microbial Community Assembly		14	
22	Engineering complex communities by directed evolution. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1011-1	023 .3	14	
21	Distribution of Initiation Times Reveals Mechanisms of Transcriptional Regulation in Single Cells. <i>Biophysical Journal</i> , 2018 , 114, 2072-2082	2.9	12	
20	A metabolic modeling platform for the computation of microbial ecosystems in time and space (COMETS). <i>Nature Protocols</i> , 2021 , 16, 5030-5082	18.8	12	
19	Artificially selecting bacterial communities using propagule strategies. <i>Evolution; International Journal of Organic Evolution</i> , 2020 , 74, 2392-2403	3.8	12	
18	Defining Higher-Order Interactions in Synthetic Ecology: Lessons from Physics and Quantitative Genetics. <i>Cell Systems</i> , 2019 , 9, 519-520	10.6	12	
17	Complex yeast-bacteria interactions affect the yield of industrial ethanol fermentation. <i>Nature Communications</i> , 2021 , 12, 1498	17.4	12	
16	Nutrient dominance governs the assembly of microbial communities in mixed nutrient environments. <i>ELife</i> , 2021 , 10,	8.9	11	
15	Functional attractors in microbial community assembly. Cell Systems, 2021,	10.6	8	
14	Dissimilarity-Overlap analysis of replicate enrichment communities. <i>ISME Journal</i> , 2020 , 14, 2505-2513	11.9	7	

13	Functional biology in its natural context: A search for emergent simplicity. <i>ELife</i> , 2021 , 10,	8.9	7
12	In vitro interaction network of a synthetic gut bacterial community. ISME Journal, 2021,	11.9	5
11	Multi-Replicated Enrichment Communities as a Model System in Microbial Ecology. <i>Frontiers in Microbiology</i> , 2021 , 12, 657467	5.7	5
10	Nutrient dominance governs the assembly of microbial communities in mixed nutrient environments		4
9	Current State of and Future Opportunities for Prediction in Microbiome Research: Report from the Mid-Atlantic Microbiome Meet-up in Baltimore on 9 January 2019. <i>MSystems</i> , 2019 , 4,	7.6	4
8	Artificially selecting microbial communities using propagule strategies		3
7	Exploring the interaction network of a synthetic gut bacterial community		3
6	Ecological effects of cellular computing in microbial populations. <i>Natural Computing</i> , 2018 , 17, 811-822	1.3	3
5	Top-down engineering of complex communities by directed evolution		2
4	The meta-gut: community coalescence of animal gut and environmental microbiomes. <i>Scientific Reports</i> , 2021 , 11, 23117	4.9	1
3	The Evolutionary Resilience of Distributed Cellular Computing. <i>Lecture Notes in Computer Science</i> , 2017 , 3-15	0.9	1
2	The meta-gut: Hippo inputs lead to community coalescence of animal and environmental microbiomes		1
1	The Macroevolutionary Consequences of Niche Construction in Microbial Metabolism. <i>Frontiers in Microbiology</i> , 2021 , 12, 718082	5.7	