

# JosÃ© I JimÃ©nez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3688914/publications.pdf>

Version: 2024-02-01

28  
papers

1,618  
citations

516710

16  
h-index

552781

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2004  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isocost Lines Describe the Cellular Economy of Genetic Circuits. <i>Biophysical Journal</i> , 2015, 109, 639-646.	0.5	227
2	Resource Competition Shapes the Response of Genetic Circuits. <i>ACS Synthetic Biology</i> , 2017, 6, 1263-1272.	3.8	207
3	Cooperation in microbial communities and their biotechnological applications. <i>Environmental Microbiology</i> , 2017, 19, 2949-2963.	3.8	144
4	Comprehensive experimental fitness landscape and evolutionary network for small RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14984-14989.	7.1	137
5	Deciphering the genetic determinants for aerobic nicotinic acid degradation: The <i>nic</i> cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11329-11334.	7.1	136
6	Dynamic allocation of orthogonal ribosomes facilitates uncoupling of co-expressed genes. <i>Nature Communications</i> , 2018, 9, 695.	12.8	109
7	Production of selenium nanoparticles in <i>Pseudomonas putida</i> KT2440. <i>Scientific Reports</i> , 2016, 6, 37155.	3.3	96
8	Microbial Genes for a Circular and Sustainable Bio-PET Economy. <i>Genes</i> , 2019, 10, 373.	2.4	94
9	Inhibition of Bacterial Conjugation by Phage M13 and Its Protein g3p: Quantitative Analysis and Model. <i>PLoS ONE</i> , 2011, 6, e19991.	2.5	76
10	Trade-offs between gene expression, growth and phenotypic diversity in microbial populations. <i>Current Opinion in Biotechnology</i> , 2020, 62, 29-37.	6.6	59
11	Synthetic Tunable Amplifying Buffer Circuit in <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2015, 4, 577-584.	3.8	43
12	Genomic Insights in the Metabolism of Aromatic Compounds in <i>Pseudomonas</i> . , 2004, , 425-462.		41
13	A second chromosomal copy of the <i>catA</i> gene endows <i>Pseudomonas putida</i> with an enzymatic safety valve for excess of catechol. <i>Environmental Microbiology</i> , 2014, 16, 1767-1778.	3.8	38
14	Genome analysis of the metabolically versatile <i>Pseudomonas umsongensis</i> GO16: the genetic basis for PET monomer upcycling into polyhydroxyalkanoates. <i>Microbial Biotechnology</i> , 2021, 14, 2463-2480.	4.2	35
15	Genetic Drift Suppresses Bacterial Conjugation in Spatially Structured Populations. <i>Biophysical Journal</i> , 2014, 106, 944-954.	0.5	31
16	A quantitative method for proteome reallocation using minimal regulatory interventions. <i>Nature Chemical Biology</i> , 2020, 16, 1026-1033.	8.0	26
17	Engineering Translational Resource Allocation Controllers: Mechanistic Models, Design Guidelines, and Potential Biological Implementations. <i>ACS Synthetic Biology</i> , 2018, 7, 2485-2496.	3.8	22
18	Monitoring biodegradative enzymes with nanobodies raised in <i>Camelus dromedarius</i> with mixtures of catabolic proteins. <i>Environmental Microbiology</i> , 2011, 13, 960-974.	3.8	21

#	ARTICLE	IF	CITATIONS
19	Computational analysis of fitness landscapes and evolutionary networks from in vitro evolution experiments. <i>Methods</i> , 2016, 106, 86-96.	3.8	10
20	Loss of a pyoverdine secondary receptor in <i>Pseudomonas aeruginosa</i> results in a fitter strain suitable for population invasion. <i>ISME Journal</i> , 2021, 15, 1330-1343.	9.8	10
21	A Comprehensive Review of the Current and Future Role of the Microbiome in Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2022, 14, 1020.	3.7	10
22	Phenotypic knockouts of selected metabolic pathways by targeting enzymes with camel-derived nanobodies (VHHs). <i>Metabolic Engineering</i> , 2015, 30, 40-48.	7.0	8
23	NanoPad: An integrated platform for bacterial production of camel nanobodies aimed at detecting environmental biomarkers. <i>Proteomics</i> , 2013, 13, 2766-2775.	2.2	7
24	The potential of <i>Pseudomonas</i> for bioremediation of oxyanions. <i>Environmental Microbiology Reports</i> , 2021, 13, 773-789.	2.4	7
25	Regulatory perturbations of ribosome allocation in bacteria reshape the growth proteome with a trade-off in adaptation capacity. <i>IScience</i> , 2022, 25, 103879.	4.1	7
26	Design of a translation resource allocation controller to manage cellular resource limitations * *APSD and DGB acknowledge funding from the University of Warwick and the EPSRC & BBSRC Centre for Doctoral Training in Synthetic Biology (grant EP/L016494/1). JK and JJ acknowledge funding from the BBSRC (grant BB/M009769/1). <i>IFAC-PapersOnLine</i> , 2017, 50, 12653-12660.	0.9	2
27	Quantitative Analysis of Synthesized Nucleic Acid Pools. <i>SEMA SIMAI Springer Series</i> , 2016, , 19-41.	0.7	0
28	Applicability of Control Materials To Support Gene Promoter Characterization and Expression in Engineered Cells Using Digital PCR. <i>Analytical Chemistry</i> , 2022, , .	6.5	0