José I Jiménez

List of Publications by Year
in descending order

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	Regulatory perturbations of ribosome allocation in bacteria reshape the growth proteome with a trade-off in adaptation capacity. IScience, 2022, 25, 103879.	4.1	7
2	A Comprehensive Review of the Current and Future Role of the Microbiome in Pancreatic Ductal Adenocarcinoma. Cancers, 2022, 14, 1020.	3.7	10
3	Applicability of Control Materials To Support Gene Promoter Characterization and Expression in Engineered Cells Using Digital PCR. Analytical Chemistry, 2022, , .	6.5	0
4	Loss of a pyoverdine secondary receptor in <i>Pseudomonas aeruginosa</i> results in a fitter strain suitable for population invasion. ISME Journal, 2021, 15, 1330-1343.	9.8	10
5	Genome analysis of the metabolically versatile <i>Pseudomonas umsongensis</i> GO16: the genetic basis for PET monomer upcycling into polyhydroxyalkanoates. Microbial Biotechnology, 2021, 14, 2463-2480.	4.2	35
6	The potential of <i>Pseudomonas</i> for bioremediation of oxyanions. Environmental Microbiology Reports, 2021, 13, 773-789.	2.4	7
7	Trade-offs between gene expression, growth and phenotypic diversity in microbial populations. Current Opinion in Biotechnology, 2020, 62, 29-37.	6.6	59
8	A quantitative method for proteome reallocation using minimal regulatory interventions. Nature Chemical Biology, 2020, 16, 1026-1033.	8.0	26
9	Microbial Genes for a Circular and Sustainable Bio-PET Economy. Genes, 2019, 10, 373.	2.4	94
10	Dynamic allocation of orthogonal ribosomes facilitates uncoupling of co-expressed genes. Nature Communications, 2018, 9, 695.	12.8	109
11	Engineering Translational Resource Allocation Controllers: Mechanistic Models, Design Guidelines, and Potential Biological Implementations. ACS Synthetic Biology, 2018, 7, 2485-2496.	3.8	22
12	Cooperation in microbial communities and their biotechnological applications. Environmental Microbiology, 2017, 19, 2949-2963.	3.8	144
13	Resource Competition Shapes the Response of Genetic Circuits. ACS Synthetic Biology, 2017, 6, 1263-1272.	3.8	207
14	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 JIJ acknowledge funding from the BBSRC (grant BB/M009769/1). IFAC-PapersOnLine, 2017, 50, 12653-12660.	0.9	2
15	Computational analysis of fitness landscapes and evolutionary networks from in vitro evolution experiments. Methods, 2016, 106, 86-96.	3.8	10
16	Quantitative Analysis of Synthesized Nucleic Acid Pools. SEMA SIMAI Springer Series, 2016, , 19-41.	0.7	0
17	Production of selenium nanoparticles in Pseudomonas putida KT2440. Scientific Reports, 2016, 6, 37155.	3.3	96
18	Isocost Lines Describe the Cellular Economy of Genetic Circuits. Biophysical Journal, 2015, 109, 639-646.	0.5	227

#	Article	IF	Citations
19	Phenotypic knockouts of selected metabolic pathways by targeting enzymes with camel-derived nanobodies (VHHs). Metabolic Engineering, 2015, 30, 40-48.	7.0	8
20	Synthetic Tunable Amplifying Buffer Circuit in <i>E. coli</i>. ACS Synthetic Biology, 2015, 4, 577-584.	3.8	43
21	A second chromosomal copy of the <scp><i>catA</i></scp> gene endows <scp><i>P</i></scp><i>seudomonas putida</i>â€…<scp>mt</scp>â€2 with an enzymatic safety valve for excess of catechol. Environmental Microbiology, 2014, 16, 1767-1778.	3.8	38
22	Genetic Drift Suppresses Bacterial Conjugation in Spatially Structured Populations. Biophysical Journal, 2014, 106, 944-954.	0.5	31
23	Comprehensive experimental fitness landscape and evolutionary network for small RNA. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14984-14989.	7.1	137
24	NanoPad: An integrated platform for bacterial production of camel nanobodies aimed at detecting environmental biomarkers. Proteomics, 2013, 13, 2766-2775.	2.2	7
25	Monitoring biodegradative enzymes with nanobodies raised in <i>Camelus dromedarius</i> with mixtures of catabolic proteins. Environmental Microbiology, 2011, 13, 960-974.	3.8	21
26	Inhibition of Bacterial Conjugation by Phage M13 and Its Protein g3p: Quantitative Analysis and Model. PLoS ONE, 2011, 6, e19991.	2.5	76
27	Deciphering the genetic determinants for aerobic nicotinic acid degradation: The <i>nic</i> cluster from <i>Pseudomonas putida</i> KT2440. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11329-11334.	7.1	136
28	Genomic Insights in the Metabolism of Aromatic Compounds in Pseudomonas. , 2004, , 425-462.		41