Markus Basan

List of Publications by Year
in descending order

12 papers	1,543 citations	840776 11 h-index	1199594 12 g-index
15 all docs	15 docs citations	15 times ranked	1808 citing authors

#	Article	IF	Citations
1	Overflow metabolism in Escherichia coli results from efficient proteome allocation. Nature, 2015, 528, 99-104.	27.8	566
2	Quantitative proteomic analysis reveals a simple strategy of global resource allocation in bacteria. Molecular Systems Biology, 2015, 11, 784.	7.2	291
3	Alignment of cellular motility forces with tissue flow as a mechanism for efficient wound healing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2452-2459.	7.1	184
4	Inflating bacterial cells by increased protein synthesis. Molecular Systems Biology, 2015, 11, 836.	7.2	164
5	A universal trade-off between growth and lag in fluctuating environments. Nature, 2020, 584, 470-474.	27.8	139
6	Resource allocation and metabolism: the search for governing principles. Current Opinion in Microbiology, 2018, 45, 77-83.	5.1	47
7	Protein and lipid mass concentration measurement in tissues by stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117938119.	7.1	46
8	ArcA overexpression induces fermentation and results in enhanced growth rates of E. coli. Scientific Reports, 2017, 7, 11866.	3.3	32
9	Intercellular Stress Reconstitution from Traction Force Data. Biophysical Journal, 2014, 107, 548-554.	0.5	28
10	Glycolysis/gluconeogenesis specialization in microbes is driven by biochemical constraints of flux sensing. Molecular Systems Biology, 2022, 18, e10704.	7.2	21
11	Multi-parametric functional imaging of cell cultures and tissues with a CMOS microelectrode array. Lab on A Chip, 2022, 22, 1286-1296.	6.0	20
12	Implications of initial physiological conditions for bacterial adaptation to changing environments. Molecular Systems Biology, 2020, 16, e9965.	7.2	4