Ahmad S Khalil

List of Publications by Year
in descending order

38 papers	5,484 citations	249298 26 h-index	371746 37 g-index
48 all docs	48 docs citations	48 times ranked	8558 citing authors

#	Article	IF	Citations
1	One cell, many fates. Science, 2022, 375, 262-263.	6.0	0
2	Modular design of synthetic receptors for programmed gene regulation in cell therapies. Cell, 2022, 185, 1431-1443.e16.	13.5	70
3	In vivo hypermutation and continuous evolution. Nature Reviews Methods Primers, 2022, 2, .	11.8	39
4	A Code of Ethics for Gene Drive Research. CRISPR Journal, 2021, 4, 19-24.	1.4	24
5	Here to stay: Writing lasting epigenetic memories. Cell, 2021, 184, 2281-2283.	13.5	3
6	Computational Model To Quantify the Growth of Antibiotic-Resistant Bacteria in Wastewater. MSystems, 2021, 6, e0036021.	1.7	17
7	Environmental fluctuations reshape an unexpected diversity-disturbance relationship in a microbial community. ELife, 2021, 10, .	2.8	25
8	Automated Continuous Evolution of Proteins <i>in Vivo</i>. ACS Synthetic Biology, 2020, 9, 1270-1276.	1.9	40
9	Barcoded microbial system for high-resolution object provenance. Science, 2020, 368, 1135-1140.	6.0	27
10	Protein assembly systems in natural and synthetic biology. BMC Biology, 2020, 18, 35.	1.7	44
11	Sphingomonas solaris sp. nov., isolated from a solar panel in Boston, Massachusetts. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 1814-1821.	0.8	12
12	Designing Automated, High-throughput, Continuous Cell Growth Experiments Using eVOLVER. Journal of Visualized Experiments, 2019, , .	0.2	10
13	Complex signal processing in synthetic gene circuits using cooperative regulatory assemblies. Science, 2019, 364, 593-597.	6.0	117
14	Functional genomics of the rapidly replicating bacterium Vibrio natriegens by CRISPRi. Nature Microbiology, 2019, 4, 1105-1113.	5.9	148
15	Engineering Epigenetic Regulation Using Synthetic Read-Write Modules. Cell, 2019, 176, 227-238.e20.	13.5	83
16	Hsf1 Phosphorylation Generates Cell-to-Cell Variation in Hsp90 Levels and Promotes Phenotypic Plasticity. Cell Reports, 2018, 22, 3099-3106.	2.9	28
17	Modeling the impact of drug interactions on therapeutic selectivity. Nature Communications, 2018, 9, 3452.	5.8	18
18	Precise, automated control of conditions for high-throughput growth of yeast and bacteria with eVOLVER. Nature Biotechnology, 2018, 36, 614-623.	9.4	169

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19	A Genetic Tool to Track Protein Aggregates and Control Prion Inheritance. Cell, 2017, 171, 966-979.e18.	13.5	61
20	Prospective isolation of NKX2-1â€“expressing human lung progenitors derived from pluripotent stem cells. Journal of Clinical Investigation, 2017, 127, 2277-2294.	3.9	180
21	Dynamic control of Hsf1 during heat shock by a chaperone switch and phosphorylation. ELife, 2016, 5, .	2.8	185
22	The epigenome: the next substrate for engineering. Genome Biology, 2016, 17, 183.	3.8	44
23	Cellular Advantages to Signaling in a Digital World. Cell Systems, 2016, 3, 114-115.	2.9	1
24	A unifying model of epigenetic regulation. Science, 2016, 351, 661-662.	6.0	9
25	Chromatin regulation at the frontier of synthetic biology. Nature Reviews Genetics, 2015, 16, 159-171.	7.7	89
26	Antibiotic efficacy is linked to bacterial cellular respiration. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8173-8180.	3.3	544
27	Antibiotics induce redox-related physiological alterations as part of their lethality. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2100-9.	3.3	698
28	Using Targeted Chromatin Regulators to Engineer Combinatorial and Spatial Transcriptional Regulation. Cell, 2014, 158, 110-120.	13.5	120
29	Iterative plug-and-play methodology for constructing and modifying synthetic gene networks. Nature Methods, 2012, 9, 1077-1080.	9.0	80
30	A Synthetic Biology Framework for Programming Eukaryotic Transcription Functions. Cell, 2012, 150, 647-658.	13.5	293
31	Signaling-mediated bacterial persister formation. Nature Chemical Biology, 2012, 8, 431-433.	3.9	367
32	Functional endothelialized microvascular networks with circular cross-sections in a tissue culture substrate. Biomedical Microdevices, 2010, 12, 71-79.	1.4	109
33	Synthetic biology: applications come of age. Nature Reviews Genetics, 2010, 11, 367-379.	7.7	1,130
34	Next-generation synthetic gene networks. Nature Biotechnology, 2009, 27, 1139-1150.	9.4	321
35	Kinesin's cover-neck bundle folds forward to generate force. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19247-19252.	3.3	132
36	Single M13 bacteriophage tethering and stretching. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4892-4897.	3.3	82

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37	A Combined FEM/Genetic Algorithm for Vascular Soft tissue Elasticity Estimation. Cardiovascular Engineering (Dordrecht, Netherlands), 2006, 6, 93-102.	1.0	50
38	Tissue Elasticity Estimation with Optical Coherence Elastography: Toward Mechanical Characterization of In Vivo Soft Tissue. Annals of Biomedical Engineering, 2005, 33, 1631-1639.	1.3	76