

# Ahmad S Khalil

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

5,484  
citations

218677

26  
h-index

330143

37  
g-index

48  
all docs

48  
docs citations

48  
times ranked

7514  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic biology: applications come of age. <i>Nature Reviews Genetics</i> , 2010, 11, 367-379.	16.3	1,130
2	Antibiotics induce redox-related physiological alterations as part of their lethality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2100-9.	7.1	698
3	Antibiotic efficacy is linked to bacterial cellular respiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8173-8180.	7.1	544
4	Signaling-mediated bacterial persister formation. <i>Nature Chemical Biology</i> , 2012, 8, 431-433.	8.0	367
5	Next-generation synthetic gene networks. <i>Nature Biotechnology</i> , 2009, 27, 1139-1150.	17.5	321
6	A Synthetic Biology Framework for Programming Eukaryotic Transcription Functions. <i>Cell</i> , 2012, 150, 647-658.	28.9	293
7	Dynamic control of Hsf1 during heat shock by a chaperone switch and phosphorylation. <i>ELife</i> , 2016, 5, .	6.0	185
8	Prospective isolation of NKX2-1-expressing human lung progenitors derived from pluripotent stem cells. <i>Journal of Clinical Investigation</i> , 2017, 127, 2277-2294.	8.2	180
9	Precise, automated control of conditions for high-throughput growth of yeast and bacteria with eVOLVER. <i>Nature Biotechnology</i> , 2018, 36, 614-623.	17.5	169
10	Functional genomics of the rapidly replicating bacterium <i>Vibrio natriegens</i> by CRISPRi. <i>Nature Microbiology</i> , 2019, 4, 1105-1113.	13.3	148
11	Kinesin's cover-neck bundle folds forward to generate force. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19247-19252.	7.1	132
12	Using Targeted Chromatin Regulators to Engineer Combinatorial and Spatial Transcriptional Regulation. <i>Cell</i> , 2014, 158, 110-120.	28.9	120
13	Complex signal processing in synthetic gene circuits using cooperative regulatory assemblies. <i>Science</i> , 2019, 364, 593-597.	12.6	117
14	Functional endothelialized microvascular networks with circular cross-sections in a tissue culture substrate. <i>Biomedical Microdevices</i> , 2010, 12, 71-79.	2.8	109
15	Chromatin regulation at the frontier of synthetic biology. <i>Nature Reviews Genetics</i> , 2015, 16, 159-171.	16.3	89
16	Engineering Epigenetic Regulation Using Synthetic Read-Write Modules. <i>Cell</i> , 2019, 176, 227-238.e20.	28.9	83
17	Single M13 bacteriophage tethering and stretching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4892-4897.	7.1	82
18	Iterative plug-and-play methodology for constructing and modifying synthetic gene networks. <i>Nature Methods</i> , 2012, 9, 1077-1080.	19.0	80

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19	Tissue Elasticity Estimation with Optical Coherence Elastography: Toward Mechanical Characterization of In Vivo Soft Tissue. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1631-1639.	2.5	76
20	Modular design of synthetic receptors for programmed gene regulation in cell therapies. <i>Cell</i> , 2022, 185, 1431-1443.e16.	28.9	70
21	A Genetic Tool to Track Protein Aggregates and Control Prion Inheritance. <i>Cell</i> , 2017, 171, 966-979.e18.	28.9	61
22	A Combined FEM/Genetic Algorithm for Vascular Soft tissue Elasticity Estimation. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2006, 6, 93-102.	1.0	50
23	The epigenome: the next substrate for engineering. <i>Genome Biology</i> , 2016, 17, 183.	8.8	44
24	Protein assembly systems in natural and synthetic biology. <i>BMC Biology</i> , 2020, 18, 35.	3.8	44
25	Automated Continuous Evolution of Proteins <i>in Vivo</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 1270-1276.	3.8	40
26	In vivo hypermutation and continuous evolution. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	39
27	Hsf1 Phosphorylation Generates Cell-to-Cell Variation in Hsp90 Levels and Promotes Phenotypic Plasticity. <i>Cell Reports</i> , 2018, 22, 3099-3106.	6.4	28
28	Barcoded microbial system for high-resolution object provenance. <i>Science</i> , 2020, 368, 1135-1140.	12.6	27
29	Environmental fluctuations reshape an unexpected diversity-disturbance relationship in a microbial community. <i>ELife</i> , 2021, 10, .	6.0	25
30	A Code of Ethics for Gene Drive Research. <i>CRISPR Journal</i> , 2021, 4, 19-24.	2.9	24
31	Modeling the impact of drug interactions on therapeutic selectivity. <i>Nature Communications</i> , 2018, 9, 3452.	12.8	18
32	Computational Model To Quantify the Growth of Antibiotic-Resistant Bacteria in Wastewater. <i>MSystems</i> , 2021, 6, e0036021.	3.8	17
33	<i>Sphingomonas solaris</i> sp. nov., isolated from a solar panel in Boston, Massachusetts. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 1814-1821.	1.7	12
34	Designing Automated, High-throughput, Continuous Cell Growth Experiments Using eVOLVER. <i>Journal of Visualized Experiments</i> , 2019, . .	0.3	10
35	A unifying model of epigenetic regulation. <i>Science</i> , 2016, 351, 661-662.	12.6	9
36	Here to stay: Writing lasting epigenetic memories. <i>Cell</i> , 2021, 184, 2281-2283.	28.9	3

#	ARTICLE	IF	CITATIONS
37	Cellular Advantages to Signaling in a Digital World. Cell Systems, 2016, 3, 114-115.	6.2	1
38	One cell, many fates. Science, 2022, 375, 262-263.	12.6	0