Udi Qimron

List of Publications by Year
in descending order

59 papers	4,476 citations	186209 28 h-index	155592 55 g-index
65 all docs	65 docs citations	65 times ranked	5132 citing authors

#	Article	IF	Citations
1	Proteins and DNA elements essential for the CRISPR adaptation process in Escherichia coli. Nucleic Acids Research, 2012, 40, 5569-5576.	6.5	593
2	Lethal influenza infection in the absence of the natural killer cell receptor gene Ncr1. Nature Immunology, 2006, 7, 517-523.	7.0	503
3	Temperate and lytic bacteriophages programmed to sensitize and kill antibiotic-resistant bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7267-7272.	3.3	359
4	CRISPR adaptation biases explain preference for acquisition of foreign DNA. Nature, 2015, 520, 505-510.	13.7	346
5	Adaptation in CRISPR-Cas Systems. Molecular Cell, 2016, 61, 797-808.	4.5	192
6	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. Nature Microbiology, 2019, 4, 1727-1736.	5.9	184
7	Genomewide screens for Escherichia coli genes affecting growth of T7 bacteriophage. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19039-19044.	3.3	181
8	Reversing Bacterial Resistance to Antibiotics by Phage-Mediated Delivery of Dominant Sensitive Genes. Applied and Environmental Microbiology, 2012, 78, 744-751.	1.4	173
9	The <i>Escherichia coli</i> CRISPR System Protects from Î» Lysogenization, Lysogens, and Prophage Induction. Journal of Bacteriology, 2010, 192, 6291-6294.	1.0	156
10	Membrane-Associated Heparan Sulfate Proteoglycans Are Involved in the Recognition of Cellular Targets by NKp30 and NKp46. Journal of Immunology, 2004, 173, 2392-2401.	0.4	146
11	Efficient engineering of a bacteriophage genome using the type I-E CRISPR-Cas system. RNA Biology, 2014, 11, 42-44.	1.5	130
12	Extending the Host Range of Bacteriophage Particles for DNA Transduction. Molecular Cell, 2017, 66, 721-728.e3.	4.5	127
13	Discovery of Functional Toxin/Antitoxin Systems in Bacteria by Shotgun Cloning. Molecular Cell, 2013, 50, 136-148.	4.5	125
14	Activated Eosinophils Exert Antitumorigenic Activities in Colorectal Cancer. Cancer Immunology Research, 2019, 7, 388-400.	1.6	113
15	Dynamic DNA Helicase-DNA Polymerase Interactions Assure Processive Replication Fork Movement. Molecular Cell, 2007, 27, 539-549.	4.5	108
16	High-temperature protein G is essential for activity of the <i>Escherichia coli</i> clustered regularly interspaced short palindromic repeats (CRISPR)/Cas system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20136-20141.	3.3	94
17	The mechanisms controlling NK cell autoreactivity in TAP2-deficient patients. Blood, 2004, 103, 1770-1778.	0.6	62
18	DNA motifs determining the efficiency of adaptation into the <i>Escherichia coli</i> CRISPR array. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14396-14401.	3.3	62

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19	Oligomeric States of Bacteriophage T7 Gene 4 Primase/Helicase. Journal of Molecular Biology, 2006, 360, 667-677.	2.0	56
20	A technological and regulatory outlook on CRISPR crop editing. Journal of Cellular Biochemistry, 2018, 119, 1291-1298.	1.2	53
21	Phage T7 DNA mimic protein Ocr is a potent inhibitor of BREX defence. Nucleic Acids Research, 2020, 48, 5397-5406.	6.5	53
22	Role of a Conserved Arginine in the Mechanism of Acetohydroxyacid Synthase. Journal of Biological Chemistry, 2004, 279, 24803-24812.	1.6	48
23	Experimental Definition of a Clustered Regularly Interspaced Short Palindromic Duplicon in Escherichia coli. Journal of Molecular Biology, 2012, 423, 14-16.	2.0	46
24	Gene product 0.4 increases bacteriophage T7 competitiveness by inhibiting host cell division. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19549-19554.	3.3	46
25	A continuous evolution system for contracting the host range of bacteriophage T7. Scientific Reports, 2020, 10, 307.	1.6	44
26	Sensitizing pathogens to antibiotics using the CRISPR-Cas system. Drug Resistance Updates, 2017, 30, 1-6.	6.5	39
27	T7 phage factor required for managing RpoS in <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5353-E5362.	3.3	36
28	Primer initiation and extension by T7 DNA primase. EMBO Journal, 2006, 25, 2199-2208.	3.5	33
29	Identification of Salmonella typhimurium genes responsible for interference with peptide presentation on MHC class I molecules: Deltayej Salmonella mutants induce superior CD8+ T-cell responses. Cellular Microbiology, 2004, 6, 1057-1070.	1.1	32
30	Repeat Size Determination by Two Molecular Rulers in the Type I-E CRISPR Array. Cell Reports, 2016, 16, 2811-2818.	2.9	27
31	CD300f:IL-5 cross-talk inhibits adipose tissue eosinophil homing and subsequent IL-4 production. Scientific Reports, 2017, 7, 5922.	1.6	24
32	The Bacterial CRISPR/Cas System as Analog of the Mammalian Adaptive Immune System. RNA Biology, 2012, 9, 549-554.	1.5	23
33	Revealing bacterial targets of growth inhibitors encoded by bacteriophage T7. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18715-18720.	3.3	23
34	Full shut-off of Escherichia coli RNA-polymerase by T7 phage requires a small phage-encoded DNA-binding protein. Nucleic Acids Research, 2017, 45, 7697-7707.	6.5	21
35	Different approaches for using bacteriophages against antibiotic-resistant bacteria. Bacteriophage, 2014, 4, e28491.	1.9	19
36	Inadequate inhibition of host RNA polymerase restricts T7 bacteriophage growth on hosts overexpressing <i>udk</i>. Molecular Microbiology, 2008, 67, 448-457.	1.2	18

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37	Gene <i>1.7</i> of bacteriophage T7 confers sensitivity of phage growth to dideoxythymidine. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9373-9378.	3.3	18
38	A genetic system for biasing the sex ratio in mice. EMBO Reports, 2019, 20, e48269.	2.0	15
39	Non-replicating mucosal and systemic vaccines: quantitative and qualitative differences in the Ag-specific CD8+ T cell population in different tissues. Vaccine, 2004, 22, 1390-1394.	1.7	14
40	Programming Bacteriophages by Swapping Their Specificity Determinants. Trends in Microbiology, 2015, 23, 744-746.	3.5	14
41	Tumor Vaccination by Salmonella typhimurium After Transformation with a Eukaryotic Expression Vector in Mice. Journal of Immunotherapy, 2005, 28, 467-479.	1.2	13
42	Communication between subunits critical to DNA binding by hexameric helicase of bacteriophage T7. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8908-8913.	3.3	13
43	Counteracting selection for antibiotic-resistant bacteria. Bacteriophage, 2016, 6, e1096996.	1.9	12
44	CRISPR adaptation in <i>Escherichia coli</i> subtypeI-E system. Biochemical Society Transactions, 2013, 41, 1412-1415.	1.6	10
45	Reliable determination of transposon insertion site in prokaryotes by direct sequencing. Journal of Microbiological Methods, 2003, 54, 137-140.	0.7	9
46	Mutations in the gene 5 DNA polymerase of bacteriophage T7 suppress the dominant lethal phenotype of gene 2.5 ssDNA binding protein lacking the Câ€terminal phenylalanine. Molecular Microbiology, 2009, 72, 869-880.	1.2	8
47	A phage mechanism for selective nicking of dUMP-containing DNA. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
48	Natural selection underlies apparent stress-induced mutagenesis in a bacteriophage infection model. Nature Microbiology, 2016, 1, 16047.	5.9	7
49	Optimizing DNA transduction by selection of mutations that evade bacterial defense systems. RNA Biology, 2019, 16, 595-599.	1.5	6
50	New Details about Bacteriophage T7-Host Interactions. Microbe Magazine, 2013, 5, 117-122.	0.4	6
51	Restoration of Gene Function by Homologous Recombination: from PCR to Gene Expression in One Step. Applied and Environmental Microbiology, 2004, 70, 7156-7160.	1.4	5
52	How bacteria get spacers from invaders. Nature, 2015, 519, 166-167.	13.7	5
53	Selection of Genetically Modified Bacteriophages Using the CRISPR-Cas System. Bio-protocol, 2017, 7, .	0.2	5
54	Using the CRISPR-Cas System to Positively Select Mutants in Genes Essential for Its Function. Methods in Molecular Biology, 2015, 1311, 233-250.	0.4	1

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55	Phenotypic heterogeneity in a bacteriophage population only appears as stress-induced mutagenesis. Current Genetics, 2016, 62, 771-773.	0.8	1
56	Mutations in the gene 5 DNA polymerase of bacteriophage T7 suppress the dominant lethal phenotype of gene 2.5 ssDNA binding protein lacking the Câ€terminal phenylalanine. Molecular Microbiology, 2009, 73, 323-323.	1.2	0
57	Crystal-clear memories of a bacterium. Science, 2017, 357, 1096-1097.	6.0	0
58	Role of the linker between the zinc binding domain and the polymerization domain of the bacteriophage T7 DNA primase. FASEB Journal, 2006, 20, A910.	0.2	0
59	Gene 1.7 of Bacteriophage T7 Confers Sensitivity of Phage Growth to Dideoxythymidine. FASEB Journal, 2008, 22, 651.5.	0.2	0