Arieh Zaritsky

List of Publications by Year
in descending order

120 papers	4,111 citations	109321 35 h-index	138484 58 g-index
120 all docs	120 docs citations	120 times ranked	2581 citing authors

#	Article	IF	Citations
1	Bacteriophage T4 Development Depends on the Physiology of its Host Escherichia Coli. Microbiology (United Kingdom), 1997, 143, 179-185.	1.8	303
2	Complete Sequence and Organization of pBtoxis, the Toxin-Coding Plasmid of Bacillus thuringiensis subsp. israelensis. Applied and Environmental Microbiology, 2002, 68, 5082-5095.	3.1	270
3	Extended screening by PCR for seven cry-group genes from field-collected strains of Bacillus thuringiensis. Applied and Environmental Microbiology, 1997, 63, 4883-4890.	3.1	230
4	Effect of Thymine Concentration on the Replication Velocity of DNA in a Thymineless Mutant of Escherichia coli. Nature, 1970, 226, 126-131.	27.8	192
5	Changes in Cell Size and Shape Associated with Changes in the Replication Time of the Chromosome of<i>Escherichia coli</i>. Journal of Bacteriology, 1973, 114, 824-837.	2.2	155
6	Role of the nucleoid in the toporegulation of division. Research in Microbiology, 1990, 141, 39-49.	2.1	116
7	Measurement of membrane potential inBacillus subtilis: A comparison of lipophilic cations, rubidium ion, and a cyanine dye as probes. Journal of Membrane Biology, 1981, 63, 215-231.	2.1	114
8	Replication time of the chromosome in thymineless mutants of Escherichia coli. Journal of Molecular Biology, 1971, 60, 65-74.	4.2	91
9	Richness and Diversity in Dust Stormborne Biomes at the Southeast Mediterranean. Scientific Reports, 2014, 4, 5265.	3.3	90
10	On microbial states of growthâ€. Molecular Microbiology, 1995, 15, 789-794.	2.5	86
11	Mosquito larvicidal activity of Escherichia coli with combinations of genes from Bacillus thuringiensis subsp. israelensis. Journal of Bacteriology, 1995, 177, 2851-2857.	2.2	80
12	A UV Tolerant Mutant of Bacillus thuringiensis subsp. kurstaki Producing Melanin. Current Microbiology, 2002, 44, 25-30.	2.2	69
13	On dimensional determination of rod-shaped bacteria. Journal of Theoretical Biology, 1975, 54, 243-248.	1.7	68
14	Transcription- and translation-dependent changes in membrane dynamics in bacteria: testing the transertion model for domain formation. Molecular Microbiology, 1999, 32, 1173-1182.	2.5	67
15	Cyt1Aa Toxin: Crystal Structure Reveals Implications for Its Membrane-Perforating Function. Journal of Molecular Biology, 2011, 413, 804-814.	4.2	64
16	Dimensional rearrangement of rod-shaped bacteria following nutritional shift-up. II. Experiments with Escherichia coli. Journal of Theoretical Biology, 1980, 86, 441-454.	1.7	62
17	Phospho-regulation of kinesin-5 during anaphase spindle elongation. Journal of Cell Science, 2011, 124, 873-878.	2.0	61
18	Bacterial debrisâ€"an ecological mechanism for coexistence of bacteria and their viruses. Journal of Theoretical Biology, 2003, 224, 377-383.	1.7	59

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19	Nucleoid partitioning and the division plane in Escherichia coli. Journal of Bacteriology, 1994, 176, 6030-6038.	2.2	58
20	Elongation of rod-shaped bacteria. Journal of Theoretical Biology, 1977, 67, 181-193.	1.7	57
21	High-Resolution Crystal Structure of Activated Cyt2Ba Monomer from Bacillus thuringiensis subsp. israelensis. Journal of Molecular Biology, 2008, 380, 820-827.	4.2	56
22	Primary structure of the immunoglobulin J chain from the mouse.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 6656-6660.	7.1	52
23	Intracellular thymidine triphosphate concentrations in wild type and in thymine requiring mutants of Escherichia coli 15 and K12. Journal of Molecular Biology, 1971, 60, 75-86.	4.2	50
24	Comparative Sensitivity to UV-B Radiation of Two Bacillus thuringiensis Subspecies and Other Bacillus sp.. Current Microbiology, 2001, 43, 140-143.	2.2	50
25	Control of microbial surface-growth by density. Nature, 1978, 271, 244-245.	27.8	47
26	Surface growth in rod-shaped bacteria. Journal of Theoretical Biology, 1978, 73, 711-721.	1.7	47
27	Protection from UV-B Damage of Mosquito Larvicidal Toxins from Bacillus thuringiensis subsp. israelensis Expressed in Anabaena PCC 7120. Current Microbiology, 2002, 45, 217-220.	2.2	45
28	Multiplex PCR Screening To Detect<i>cry9</i>Genes in<i>Bacillus thuringiensis</i>Strains. Applied and Environmental Microbiology, 1999, 65, 3714-3716.	3.1	44
29	Bacteriophage T4 Development in Escherichia coli is Growth Rate Dependent. Journal of Theoretical Biology, 2002, 216, 1-4.	1.7	43
30	Use of Thymine Limitation and Thymine Starvation To Study Bacterial Physiology and Cytology. Journal of Bacteriology, 2006, 188, 1667-1679.	2.2	43
31	Gene transcription and chromosome replication in Escherichia coli. Journal of Bacteriology, 1997, 179, 163-169.	2.2	42
32	Mosquito larvicidal activity of transgenicAnabaenaPCC 7120 expressing toxin genes fromBacillus thuringiensissubsp.israelensis. FEMS Microbiology Letters, 2003, 227, 189-195.	1.8	42
33	Model for Bacteriophage T4 Development in <i>Escherichia coli</i>. Journal of Bacteriology, 1999, 181, 1677-1683.	2.2	41
34	Mosquito larvicidal activity of transgenic Anabaena strain PCC 7120 expressing combinations of genes from Bacillus thuringiensis subsp. israelensis. Applied and Environmental Microbiology, 1997, 63, 4971-4974.	3.1	40
35	Effect of Accessory Proteins P19 and P20 on Cytolytic Activity of Cyt1Aa from Bacillus thuringiensis subsp. israelensis in Escherichia coli. Current Microbiology, 2001, 43, 355-364.	2.2	39
36	Instructive simulation of the bacterial cell division cycle. Microbiology (United Kingdom), 2011, 157, 1876-1885.	1.8	38

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37	Constant peptidoglycan density in the sacculus ofescherichia coliB/r growing at different rates. FEBS Letters, 1979, 98, 29-32.	2.8	37
38	Refined, Circular Restriction Map of the Bacillus thuringiensis subsp. israelensis Plasmid Carrying the Mosquito Larvicidal Genes. Plasmid, 1999, 42, 186-191.	1.4	36
39	Homeoviscous adaptation, growth rate, and morphogenesis in bacteria. Biophysical Journal, 1985, 48, 337-339.	0.5	35
40	Toxicity and synergism in transgenic <i>Escherichia coli</i> expressing four genes from <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i>. Environmental Microbiology, 2001, 3, 798-806.	3.8	35
41	Variations in the mosquito larvicidal activities of toxins from <i>Bacillus thuringiensis</i> ssp. <i>israelensis</i>. Environmental Microbiology, 2008, 10, 2191-2199.	3.8	34
42	Sensitivity to plating of Escherichia coli cells expressing the cryA gene from Bacillus thuringiensis var. israelensis. Molecular Genetics and Genomics, 1992, 232, 162-165.	2.4	29
43	Cell-Shape Homeostasis in Escherichia coli Is Driven by Growth, Division, and Nucleoid Complexity. Biophysical Journal, 2015, 109, 178-181.	0.5	29
44	The fate of Bacillus thuringiensis var. israelensis in B. thuringiensis var. israelensis-killed pupae of Aedes aegypti. Journal of Invertebrate Pathology, 1990, 56, 312-316.	3.2	27
45	Dimensional rearrangement of Escherichia coli B/r cells during a nutritional shift-down. Journal of General Microbiology, 1993, 139, 2711-2714.	2.3	27
46	Varying division planes of secondary constrictions in spheroidal Escherichia coli cells. Microbiology (United Kingdom), 1999, 145, 1015-1022.	1.8	27
47	Cyt2Ba of Bacillus thuringiensis israelensis: Activation by putative endogenous protease. Biochemical and Biophysical Research Communications, 2006, 344, 99-105.	2.1	27
48	Chromosome replication, cell growth, division and shape: a personal perspective. Frontiers in Microbiology, 2015, 6, 756.	3.5	26
49	Restriction map of the 125-kilobase plasmid of Bacillus thuringiensis subsp. israelensis carrying the genes that encode delta-endotoxins active against mosquito larvae. Applied and Environmental Microbiology, 1996, 62, 3140-3145.	3.1	26
50	Specific Targeting to Murine Myeloma Cells of Cyt1Aa Toxin from Bacillus thuringiensis Subspecies israelensis. Journal of Biological Chemistry, 2007, 282, 28301-28308.	3.4	25
51	Growth and development of Aedes aegypti larvae at limiting food concentrations. Acta Tropica, 2014, 133, 42-44.	2.0	25
52	Germination, Growth, and Sporulation of <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> in Excreted Food Vacuoles of the Protozoan <i>Tetrahymena pyriformis</i>. Applied and Environmental Microbiology, 1998, 64, 1750-1758.	3.1	25
53	Effects of lipophilic cations on motility and other physiological properties of Bacillus subtilis. Journal of Bacteriology, 1981, 147, 1054-1062.	2.2	25
54	Suitability of Anabaena PCC7120 expressing mosquitocidal toxin genes from Bacillus thuringiensis subsp. israelensis for biotechnological application. Applied Microbiology and Biotechnology, 2001, 57, 161-166.	3.6	24

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55	Cyt1Ca from Bacillus thuringiensis subsp. israelensis: production in Escherichia coli and comparison of its biological activities with those of other Cyt-like proteins. Microbiology (United Kingdom), 2006, 152, 2651-2659.	1.8	24
56	Sensitivity of exponentially growing populations of Escherichia coli to photo-induced psoralen-DNA interstrand crosslinks. Biophysical Journal, 1981, 33, 93-106.	0.5	23
57	Title is missing!. Journal of Applied Phycology, 2000, 12, 461-467.	2.8	23
58	Changes of initiation mass and cell dimensions by the 'eclipse'. Molecular Microbiology, 2007, 63, 15-21.	2.5	23
59	Ammonium Excretion by an <scp>l</scp> -Methionine- <scp>dl</scp> -Sulfoximine-Resistant Mutant of the Rice Field Cyanobacterium <i>Anabaena siamensis</i>. Applied and Environmental Microbiology, 1990, 56, 3499-3504.	3.1	22
60	Dimensional rearrangement of rod-shaped bacteria following nutritional shift-up. I. Theory. Journal of Theoretical Biology, 1980, 86, 421-439.	1.7	21
61	Feeding behavior of Aedes aegypti larvae and toxicity of dispersed and of naturally encapsulated Bacillus thuringiensis var. israelensis. Journal of Invertebrate Pathology, 1988, 52, 419-426.	3.2	21
62	Compaction of the Escherichia coli nucleoid caused by Cyt1Aa. Microbiology (United Kingdom), 2003, 149, 3553-3564.	1.8	19
63	Deviation from homeoviscous adaptation in Escherichia coli membranes. Biophysical Journal, 1990, 57, 621-626.	0.5	18
64	DNA synthesis in Escherichia coli during a nutritional shift-up. Molecular Genetics and Genomics, 1981, 181, 564-566.	2.4	17
65	Visualizing multiple constrictions in spheroidal Escherichia coli cells. Biochimie, 1999, 81, 897-900.	2.6	17
66	Ingested particles reduce susceptibility of insect larvae to Bacillus thuringiensis. Journal of Applied Entomology, 2003, 127, 146-152.	1.8	17
67	PCR Analysis of cry7 Genes in Bacillus thuringiensis by the Five Conserved Blocks of Toxins. Current Microbiology, 2001, 42, 96-99.	2.2	16
68	DNAâ€“membrane interactions can localize bacterial cell center. Journal of Theoretical Biology, 2003, 225, 493-496.	1.7	16
69	Localizing cell division in sphericalEscherichia coliby nucleoid occlusion. FEMS Microbiology Letters, 2003, 226, 209-214.	1.8	16
70	Division-inhibition capacity of penicillin in Escherichia coli is growth-rate dependent. Microbiology (United Kingdom), 1995, 141, 1081-1083.	1.8	15
71	Enduring toxicity of transgenic Anabaena PCC 7120 expressing mosquito larvicidal genes from Bacillus thuringiensis ssp. israelensis+. Environmental Microbiology, 2003, 5, 997-1001.	3.8	14
72	Protozoan-Enhanced Toxicity of Bacillus thuringiensis var. israelensis Î´-Endotoxin against Aedes aegypti Larvae. Journal of Invertebrate Pathology, 1994, 63, 244-248.	3.2	13

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73	Perpendicular planes of FtsZ arcs in spheroidal Escherichia coli cells. Biochimie, 2001, 83, 121-124.	2.6	13
74	Rate maintenance of cell division in Escherichia coli B/r: analysis of a simple nutritional shift-down. Journal of Bacteriology, 1992, 174, 8152-8155.	2.2	12
75	Larvicidal activities against agricultural pests of transgenic Escherichia coli expressing combinations of four genes from Bacillus thuringiensis. Archives of Microbiology, 2007, 188, 643-653.	2.2	12
76	Cross-resistance spectra ofCulex quinquefasciatusresistant to mosquitocidal toxins ofBacillus thuringiensistowards recombinantEscherichia coliexpressing genes fromB.â€ƒthuringiensisssp.israelensis. Environmental Microbiology, 2007, 9, 1393-1401.	3.8	11
77	Branching of fast-growingEscherichia coli15TÃ¢ÂˆÂ’at low thymine concentrations. FEMS Microbiology Letters, 1977, 2, 65-69.	1.8	10
78	Bioencapsulation and delivery to mosquito larvae of Bacillus thuringiensis H14 toxicity by Tetrahymena pyriformis. Journal of Invertebrate Pathology, 1991, 58, 455-457.	3.2	10
79	Bacterial Lysis by Phageâ€”A Theoretical Model. Journal of Theoretical Biology, 1999, 201, 209-213.	1.7	10
80	Transgenic organisms expressing genes fromBacillus thuringiensisto combat insect pests. Bioengineered Bugs, 2010, 1, 341-344.	1.7	10
81	The basis for rootstock resilient to <i>Capnodis</i> species: screening for genes encoding <i>Î´</i>â€endotoxins from <i>Bacillus thuringiensis</i>. Pest Management Science, 2014, 70, 1283-1290.	3.4	10
82	Expression in <i>Escherichia coli</i> of the Native <i>cyt1Aa</i> from <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i>. Applied and Environmental Microbiology, 2010, 76, 3409-3411.	3.1	9
83	Does the eclipse limit bacterial nucleoid complexity and cell width?. Synthetic and Systems Biotechnology, 2017, 2, 267-275.	3.7	9
84	Diversity of Bacterial Biota in Capnodis tenebrionis (Coleoptera: Buprestidae) Larvae. Pathogens, 2019, 8, 4.	2.8	9
85	Branching of fast-growing Escherichia coli 15Tâˆ’ at low thymine concentrations. FEMS Microbiology Letters, 1977, 2, 65-69.	1.8	9
86	Partial Restoration of Antibacterial Activity of the Protein Encoded by a Cryptic Open Reading Frame () Tj ETQq0 0 0 rgBT /Overlock 10 T Bacteriology, 2005, 187, 6379-6385.	2.2	8
87	Surviving Escherichia Coli in Good Shape. , 2000, , 347-364.		7
88	Title is missing!. Current Microbiology, 2001, 42, 96.	2.2	7
89	Synthesis of ribosomal protein during the cell cycle of Escherichia coli B/r. Molecular Genetics and Genomics, 1974, 129, 217-227.	2.4	6
90	Spores of Bacillus thuringiensis serovar israelensis as Tracers for Ingestion Rates by Tetrahymena pyriformis. Journal of Invertebrate Pathology, 1994, 63, 220-222.	3.2	6

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91	Exposing cryptic antibacterial activity in Cyt1Ca fromBacillus thuringiensis israelensisby genetic manipulations. FEBS Letters, 2007, 581, 1775-1782.	2.8	6
92	Does the Nucleoid Determine Cell Dimensions in Escherichia coli?. Frontiers in Microbiology, 2019, 10, 1717.	3.5	6
93	Helical macrofiber formation in Bacillus subtilis: inhibition by penicillin G. Journal of Bacteriology, 1984, 158, 1182-1187.	2.2	6
94	Ammonium excretion by a mutant of the nitrogen-fixing cyanobacterium Anabaena siamensis. Bioresource Technology, 1991, 38, 161-166.	9.6	5
95	Site-Specific Recombination in the Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120 Catalyzed by the Integrase of Coliphage HK022. Journal of Bacteriology, 2009, 191, 4458-4464.	2.2	5
96	The initial adsorption of T4 bacteriophages to Escherichia coli cells at equivalent concentrations: Experiments and mathematical modeling. Biochemical Engineering Journal, 2010, 48, 225-229.	3.6	5
97	Editorial: The Bacterial Cell: Coupling between Growth, Nucleoid Replication, Cell Division, and Shape. Frontiers in Microbiology, 2016, 7, 116.	3.5	5
98	Effects of Growth Temperature on Ribosomes and Other Physiological Properties of <i>Escherichia coli</i>. Journal of Bacteriology, 1982, 151, 485-486.	2.2	5
99	Digestion of Bacillus thuringiensis var. israelensis spores by larvae of Aedes aegypti. Journal of Invertebrate Pathology, 1992, 59, 186-189.	3.2	4
100	Initiation of the microgene polymerization reaction with non-repetitive homo-duplexes. Biochemical and Biophysical Research Communications, 2008, 368, 606-613.	2.1	4
101	Thermodynamics of Unstable DNA Structures from the Kinetics of the Microgene PCR. Journal of Physical Chemistry B, 2008, 112, 13149-13156.	2.6	4
102	Kinetics of Repeat Propagation in the Microgene Polymerization Reaction. Biophysical Journal, 2009, 96, 1866-1874.	0.5	4
103	Replication forks of Escherichia coli are not the preferred sites for lysogenic integration of bacteriophage Mu. Journal of Bacteriology, 1988, 170, 3089-3093.	2.2	3
104	Transient enhanced cell division by blocking DNA synthesis in Escherichia coli. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	3
105	A simulation program to display specific digestion products of predicted RNA foldings. Bioinformatics, 1991, 7, 57-60.	4.1	2
106	Neural computing in discovering RNA interactions. BioSystems, 1992, 27, 85-96.	2.0	2
107	Maximizing yields of virulent phage: The T4/Escherichia coli system as a test case. Journal of Theoretical Biology, 2015, 364, 428-432.	1.7	2
108	Bacterial adaptation: Macromolecular biosynthesis during diauxic growth ofEscherichia coli. FEMS Microbiology Letters, 1983, 19, 295-298.	1.8	1

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109	Effects of temperature inactivation of penicillin-binding protein 2 on envelope growth in Escherichia coli. Annales De L'Institut Pasteur Microbiologie, 1987, 138, 537-547.	0.6	1
110	Digestibility by and pathogenicity of the protozoa Tetrahymena pyriformis to larvae of Aedes aegypti. Journal of Invertebrate Pathology, 1992, 59, 332-334.	3.2	1
111	Site-Specific Recombination in the Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120 Catalyzed by the Integrase of Coliphage HK022. Journal of Bacteriology, 2009, 191, 5879-5879.	2.2	1
112	Tandem Repeats in a New Toxin Gene from <i>Bacillus thuringiensis</i> and in Other <i>cry11</i>-Like Genes. Journal of Molecular Microbiology and Biotechnology, 2011, 20, 204-210.	1.0	1
113	Editorial: The Bacterial Cell: Coupling between Growth, Nucleoid Replication, Cell Division, and Shape Volume 2. Frontiers in Microbiology, 2019, 10, 2056.	3.5	1
114	Honoring Ole MaalÃ¸e. Microbe Magazine, 2006, 1, 210-211.	0.4	1
115	Construction of the full coding information for murine J-chain protein from cDNA and its homologous genomic clone. Nucleic Acids Research, 1987, 15, 1876-1876.	14.5	0
116	Integrity of the 130 kda polypeptide of Bacillus Thuringiensis SSP. Israelensis Î´-Endotoxin in K-S sporulation medium. International Journal of Tropical Insect Science, 1993, 14, 377-381.	1.0	0
117	Evaluation of Bacillus thuringiensis H-14 isolates from Nigerian soils for use in mosquito control. International Journal of Tropical Insect Science, 1994, 15, 433-438.	1.0	0
118	Modular columns to study depth-dependence behavior of mosquito larvae and toxicity of Bacillus thuringiensis subsp. israelensis. Acta Tropica, 2011, 117, 229-232.	2.0	0
119	DISCOVERING RNA INTERACTIONS. , 1996, , 137-159.		0
120	Nitrogen fixing cyanobacteria as BTi toxin genes delivery system â€” a biotechnological approach to control malaria mosquitoes. , 1997, , 97-109.		0