

A C Martin

List of Publications by Year in descending order

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65
papers

6,929
citations

87888

38
h-index

114465

63
g-index

67
all docs

67
docs citations

67
times ranked

5992
citing authors

#	ARTICLE	IF	CITATIONS
1	Starvation-induced cross protection against heat or H ₂ O ₂ challenge in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 3910-3914.	2.2	516
2	Differential fates of biomolecules delivered to target cells via extracellular vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1433-42.	7.1	378
3	The putative sigma factor KatF has a central role in development of starvation-mediated general resistance in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1991, 173, 4188-4194.	2.2	361
4	The molecular basis of carbon-starvation-induced general resistance in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1991, 5, 3-10.	2.5	349
5	Genetic Basis of Starvation Survival in Nondifferentiating Bacteria. <i>Annual Review of Microbiology</i> , 1989, 43, 293-314.	7.3	342
6	Regulation of <i>Escherichia coli</i> starvation sigma factor (σ^s) by ClpXP protease. <i>Journal of Bacteriology</i> , 1996, 178, 470-476.	2.2	320
7	Purification to Homogeneity and Characterization of a Novel <i>Pseudomonas putida</i> Chromate Reductase. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1788-1795.	3.1	288
8	Starvation proteins in <i>Escherichia coli</i> : kinetics of synthesis and role in starvation survival. <i>Journal of Bacteriology</i> , 1986, 168, 486-493.	2.2	266
9	Chromate-Reducing Properties of Soluble Flavoproteins from <i>Pseudomonas putida</i> and <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 873-882.	3.1	252
10	EmrR is a negative regulator of the <i>Escherichia coli</i> multidrug resistance pump EmrAB. <i>Journal of Bacteriology</i> , 1995, 177, 2328-2334.	2.2	245
11	Mechanism of chromate reduction by the <i>Escherichia coli</i> protein, NfsA, and the role of different chromate reductases in minimizing oxidative stress during chromate reduction. <i>Environmental Microbiology</i> , 2004, 6, 851-860.	3.8	219
12	Effect of Chromate Stress on <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 2006, 188, 3371-3381.	2.2	202
13	Role of protein synthesis in the survival of carbon-starved <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1984, 160, 1041-1046.	2.2	200
14	Microbial Selection in Continuous Culture. <i>Journal of Applied Bacteriology</i> , 1977, 43, 1-24.	1.1	190
15	Role of RpoH, a heat shock regulator protein, in <i>Escherichia coli</i> carbon starvation protein synthesis and survival. <i>Journal of Bacteriology</i> , 1991, 173, 1992-1996.	2.2	161
16	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. <i>Cell</i> , 2019, 177, 231-242.	28.9	152
17	New Device for High-Throughput Viability Screening of Flow Biofilms. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4136-4142.	3.1	146
18	Differential regulation by cyclic AMP of starvation protein synthesis in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 3903-3909.	2.2	123

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19	ChrR, a Soluble Quinone Reductase of <i>Pseudomonas putida</i> That Defends against H ₂ O ₂ . <i>Journal of Biological Chemistry</i> , 2005, 280, 22590-22595.	3.4	119
20	The Gâ€œprotein FlhF has a role in polar flagellar placement and general stress response induction in <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2000, 36, 414-423.	2.5	115
21	<i>Escherichia coli</i> Biofilms Formed under Low-Shear Modeled Microgravity in a Ground-Based System. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7701-7710.	3.1	115
22	Physiological Basis of the Selective Advantage of a <i>Spirillum</i> sp. in a Carbon-limited Environment. <i>Journal of General Microbiology</i> , 1978, 105, 187-197.	2.3	113
23	Anti-HER2 scFv-Directed Extracellular Vesicle-Mediated mRNA-Based Gene Delivery Inhibits Growth of HER2-Positive Human Breast Tumor Xenografts by Prodrug Activation. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 1133-1142.	4.1	107
24	The putative sigma factor KatF is regulated posttranscriptionally during carbon starvation. <i>Journal of Bacteriology</i> , 1993, 175, 2143-2149.	2.2	106
25	Visualizing Implanted Tumors in Mice with Magnetic Resonance Imaging Using Magnetotactic Bacteria. <i>Clinical Cancer Research</i> , 2009, 15, 5170-5177.	7.0	101
26	Role of the <i>rapA</i> Gene in Controlling Antibiotic Resistance of <i>Escherichia coli</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3650-3658.	3.2	90
27	Characterization of the sigma 38-dependent expression of a core <i>Escherichia coli</i> starvation gene, <i>pexB</i> . <i>Journal of Bacteriology</i> , 1994, 176, 3928-3935.	2.2	86
28	Tetracycline Rapidly Reaches All the Constituent Cells of Uropathogenic <i>Escherichia coli</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 2458-2461.	3.2	81
29	The σ^S level in starving <i>Escherichia coli</i> cells increases solely as a result of its increased stability, despite decreased synthesis. <i>Molecular Microbiology</i> , 1997, 24, 643-651.	2.5	78
30	Role and Regulation of σ^S in General Resistance Conferred by Low-Shear Simulated Microgravity in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2004, 186, 8207-8212.	2.2	74
31	Analysis of Novel Soluble Chromate and Uranyl Reductases and Generation of an Improved Enzyme by Directed Evolution. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7074-7082.	3.1	70
32	Patient-derived xenografts of triple-negative breast cancer reproduce molecular features of patient tumors and respond to mTOR inhibition. <i>Breast Cancer Research</i> , 2014, 16, R36.	5.0	63
33	The EmrR Protein Represses the <i>Escherichia coli</i> <i>emrRAB</i> Multidrug Resistance Operon by Directly Binding to Its Promoter Region. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 2905-2907.	3.2	60
34	Crystal Structure of ChrA Quinone Reductase with the Capacity to Reduce Chromate. <i>PLoS ONE</i> , 2012, 7, e36017.	2.5	60
35	Physiology, molecular biology and applications of the bacterial starvation response. <i>Journal of Applied Bacteriology</i> , 1992, 73, 49S-57S.	1.1	57
36	A carbon starvation survival gene of <i>Pseudomonas putida</i> is regulated by sigma 54. <i>Journal of Bacteriology</i> , 1995, 177, 1850-1859.	2.2	51

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37	New enzyme for reductive cancer chemotherapy, YieF, and its improvement by directed evolution. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 97-103.	4.1	49
38	A Soluble Flavoprotein Contributes to Chromate Reduction and Tolerance by <i>Pseudomonas putida</i> . <i>Acta Biotechnologica</i> , 2003, 23, 233-239.	0.9	46
39	Regulation of Glucose Metabolism in <i>Thiobacillus intermedius</i> . <i>Journal of Bacteriology</i> , 1970, 104, 239-246.	2.2	44
40	Phenotyping antibiotic resistance with single-cell resolution for the detection of heteroresistance. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 396-404.	7.8	41
41	CNOB/ChrR6, a new prodrug enzyme cancer chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 333-341.	4.1	38
42	Use of starvation promoters to limit growth and selectively enrich expression of trichloroethylene- and phenol-transforming activity in recombinant <i>Escherichia coli</i> [corrected]. <i>Applied and Environmental Microbiology</i> , 1995, 61, 3323-3328.	3.1	38
43	Capacity of <i>Helicobacter pylori</i> to generate ionic gradients at low pH is similar to that of bacteria which grow under strongly acidic conditions. <i>Infection and Immunity</i> , 1996, 64, 1434-1436.	2.2	37
44	Enzyme improvement in the absence of structural knowledge: a novel statistical approach. <i>ISME Journal</i> , 2008, 2, 171-179.	9.8	36
45	Differential regulation of the <i>mcb</i> and <i>emr</i> operons of <i>Escherichia coli</i> : role of <i>mcb</i> in multidrug resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 1996, 40, 1050-1052.	3.2	33
46	Microgravity Alters the Physiological Characteristics of <i>Escherichia coli</i> O157:H7 ATCC 35150, ATCC 43889, and ATCC 43895 under Different Nutrient Conditions. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2270-2278.	3.1	33
47	Extracellular Vesicle-Mediated <i>In Vitro</i> Transcribed mRNA Delivery for Treatment of HER2+ Breast Cancer Xenografts in Mice by Prodrug CB1954 without General Toxicity. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 858-867.	4.1	33
48	Role of nitric oxide in <i>Salmonella typhimurium</i> -mediated cancer cell killing. <i>BMC Cancer</i> , 2010, 10, 146.	2.6	31
49	Starvation Promoters of <i>Escherichia coli</i> : Their Function, Regulation, and Use in Bioprocessing and Bioremediation. <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 277-291.	3.8	30
50	Sigma S-Dependent Antioxidant Defense Protects Stationary-Phase <i>Escherichia coli</i> against the Bactericidal Antibiotic Gentamicin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5964-5975.	3.2	29
51	EcAMSat spaceflight measurements of the role of <i>lfs</i> in antibiotic resistance of stationary phase <i>Escherichia coli</i> in microgravity. <i>Life Sciences in Space Research</i> , 2020, 24, 18-24.	2.3	29
52	The <i>Escherichia coli</i> Starvation Gene <i>cstC</i> Is Involved in Amino Acid Catabolism. <i>Journal of Bacteriology</i> , 1998, 180, 4287-4290.	2.2	28
53	pH Homeostasis in Acidophiles. <i>Novartis Foundation Symposium</i> , 1999, 221, 152-166.	1.1	22
54	Payload hardware and experimental protocol development to enable future testing of the effect of space microgravity on the resistance to gentamicin of uropathogenic <i>Escherichia coli</i> and its <i>lfs</i> -deficient mutant. <i>Life Sciences in Space Research</i> , 2017, 15, 1-10.	2.3	19

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55	Genetics of Bacterial Stress Response and Its Applications. Annals of the New York Academy of Sciences, 1992, 665, 1-15.	3.8	18
56	Role of alternate sigma factors in starvation protein synthesis – novel mechanisms of catabolite repression. Research in Microbiology, 1996, 147, 494-505.	2.1	15
57	Molecular analysis of the starvation stress in Escherichia coli. FEMS Microbiology Ecology, 1990, 7, 185-195.	2.7	9
58	Utilizing native fluorescence imaging, modeling and simulation to examine pharmacokinetics and therapeutic regimen of a novel anticancer prodrug. BMC Cancer, 2016, 16, 524.	2.6	8
59	Molecular analysis of the starvation stress in Escherichia coli. FEMS Microbiology Letters, 1990, 74, 185-195.	1.8	3
60	Two-dimensional gel resolution of polypeptides specific for autotrophic growth in Thiobacillus versutus. Journal of Applied Bacteriology, 1987, 63, 469-472.	1.1	1
61	Response to Comments on “EcAMSat spaceflight measurements of the role of <i>lps</i> in antibiotic resistance of stationary phase Escherichia coli in microgravity”. Life Sciences in Space Research, 2021, 29, 85-86.	2.3	1
62	Keeping a neutral cytoplasm; the bioenergetics of obligate acidophiles. FEMS Microbiology Letters, 1990, 75, 307-318.	1.8	1
63	Cellular Response of Escherichia coli to Microgravity and Microgravity Analogue Culture. , 2016, , 259-282.		0
64	Engineering Pseudomonas putidato minimize clogging during biostimulation. , 2005, , .		0
65	Stress, Bacterial: General and Specific. , 2014, , 346-346.		0