

Michael J Benedik

List of Publications by Year in descending order

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81
papers

4,092
citations

94269

37
h-index

118652

62
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84
all docs

84
docs citations

84
times ranked

3418
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrested Protein Synthesis Increases Persister-Like Cell Formation. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1468-1473.	1.4	286
2	Activation of mouse T-helper cells induces abundant preproenkephalin mRNA synthesis. <i>Science</i> , 1986, 232, 772-775.	6.0	284
3	A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS. <i>Nature Chemical Biology</i> , 2012, 8, 855-861.	3.9	268
4	Antitoxin MqsA helps mediate the bacterial general stress response. <i>Nature Chemical Biology</i> , 2011, 7, 359-366.	3.9	201
5	Bacterial persistence increases as environmental fitness decreases. <i>Microbial Biotechnology</i> , 2012, 5, 509-522.	2.0	137
6	Microbial nitrilases: versatile, spiral forming, industrial enzymes. <i>Journal of Applied Microbiology</i> , 2009, 106, 703-727.	1.4	131
7	The extracellular nuclease gene of <i>Serratia marcescens</i> and its secretion from <i>Escherichia coli</i> . <i>Gene</i> , 1987, 57, 183-192.	1.0	106
8	Type <i>II</i> toxin/antitoxin <i>MqsR</i> / <i>MqsA</i> controls type <i>V</i> toxin/antitoxin <i>GhoT</i> / <i>GhoS</i> . <i>Environmental Microbiology</i> , 2013, 15, 1734-1744.	1.8	100
9	RalR (a DNase) and RalA (a small RNA) form a type I toxin-antitoxin system in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2014, 42, 6448-6462.	6.5	98
10	Induction of phospholipase- and flagellar synthesis in <i>Serratia liquefaciens</i> is controlled by expression of the flagellar master operon <i>flhD</i> . <i>Molecular Microbiology</i> , 1995, 15, 445-454.	1.2	96
11	Cadaverine Inhibition of Porin Plays a Role in Cell Survival at Acidic pH. <i>Journal of Bacteriology</i> , 2003, 185, 13-19.	1.0	95
12	2.1 Å... structure of <i>Serratia</i> endonuclease suggests a mechanism for binding to double-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 461-468.	3.6	91
13	Genetic analysis of extracellular proteins of <i>Serratia marcescens</i> . <i>Journal of Bacteriology</i> , 1988, 170, 4141-4146.	1.0	90
14	Characterization of the alanine racemases from two <i>Mycobacteria</i> . <i>FEMS Microbiology Letters</i> , 2001, 196, 93-98.	0.7	88
15	Toxin <i>YafQ</i> increases persister cell formation by reducing indole signalling. <i>Environmental Microbiology</i> , 2015, 17, 1275-1285.	1.8	88
16	The 1.9 Å... Crystal Structure of Alanine Racemase from <i>Mycobacterium tuberculosis</i> Contains a Conserved Entryway into the Active Site. <i>Biochemistry</i> , 2005, 44, 1471-1481.	1.2	86
17	<i>Serratia marcescens</i> and its extracellular nuclease. <i>FEMS Microbiology Letters</i> , 1998, 165, 1-13.	0.7	85
18	Microbial denitrogenation of fossil fuels. <i>Trends in Biotechnology</i> , 1998, 16, 390-395.	4.9	85

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19	Antimicrobial Behavior of Polyelectrolyte-Surfactant Thin Film Assemblies. <i>Langmuir</i> , 2009, 25, 10322-10328.	1.6	79
20	Toxin <i>GhoT</i> of the <i>GhoT/GhoS</i> toxin/antitoxin system damages the cell membrane to reduce adenosine triphosphate and to reduce growth under stress. <i>Environmental Microbiology</i> , 2014, 16, 1741-1754.	1.8	79
21	Phosphodiesterase <i>DosP</i> increases persistence by reducing cAMP which reduces the signal indole. <i>Biotechnology and Bioengineering</i> , 2015, 112, 588-600.	1.7	75
22	Antitoxin <i>DinJ</i> influences the general stress response through transcript stabilizer <i>CspE</i> . <i>Environmental Microbiology</i> , 2012, 14, 669-679.	1.8	68
23	Low-frequency, low-field dielectric spectroscopy of living cell suspensions. <i>Journal of Applied Physics</i> , 2004, 95, 3754-3756.	1.1	67
24	<i>CynD</i> , the Cyanide Dihydratase from <i>Bacillus pumilus</i> : Gene Cloning and Structural Studies. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4794-4805.	1.4	65
25	Characterization of the Alanine Racemases from <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , 2000, 41, 290-294.	1.0	56
26	Persister Cells Resuscitate Using Membrane Sensors that Activate Chemotaxis, Lower cAMP Levels, and Revive Ribosomes. <i>IScience</i> , 2020, 23, 100792.	1.9	56
27	The <i>MqsR/MqsA</i> toxin/antitoxin system protects <i>Escherichia coli</i> during bile acid stress. <i>Environmental Microbiology</i> , 2015, 17, 3168-3181.	1.8	55
28	Cyanide bioremediation: the potential of engineered nitrilases. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3029-3042.	1.7	53
29	Characterization of a Cytotoxic Factor in Culture Filtrates of <i>Serratia marcescens</i> . <i>Infection and Immunity</i> , 2002, 70, 1121-1128.	1.0	50
30	The metalloprotease gene of <i>Serratia marcescens</i> strain SM6. <i>Molecular Genetics and Genomics</i> , 1990, 222, 446-451.	2.4	47
31	The Cyanide Degrading Nitrilase from <i>Pseudomonas stutzeri</i> AK61 Is a Two-Fold Symmetric, 14-Subunit Spiral. <i>Structure</i> , 2003, 11, 1413-1422.	1.6	47
32	DNA sequence of regulatory region for integration gene of bacteriophage λ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 2477-2481.	3.3	45
33	Crystal Structure at 1.45 Å... Resolution of Alanine Racemase from a Pathogenic Bacterium, <i>Pseudomonas aeruginosa</i> , Contains Both Internal and External Aldimine Forms., <i>Biochemistry</i> , 2003, 42, 14752-14761.	1.2	44
34	Comparison of cyanide-degrading nitrilases. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 327-335.	1.7	44
35	Genome mining of cyanide-degrading nitrilases from filamentous fungi. <i>Applied Microbiology and Biotechnology</i> , 2008, 80, 427-35.	1.7	44
36	<i>Nup124p</i> Is a Nuclear Pore Factor of <i>Schizosaccharomyces pombe</i> That Is Important for Nuclear Import and Activity of Retrotransposon <i>Tf1</i> . <i>Molecular and Cellular Biology</i> , 1999, 19, 5768-5784.	1.1	43

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37	Mutant Analysis Shows that Alanine Racemases from <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> Are Dimeric. <i>Journal of Bacteriology</i> , 2002, 184, 4321-4325.	1.0	42
38	Interactions of the TnaC nascent peptide with rRNA in the exit tunnel enable the ribosome to respond to free tryptophan. <i>Nucleic Acids Research</i> , 2014, 42, 1245-1256.	6.5	41
39	Disulfide bonds are required for <i>Serratia marcescens</i> nuclease activity. <i>Nucleic Acids Research</i> , 1992, 20, 4971-4974.	6.5	36
40	Recombinant carbazole-degrading strains for enhanced petroleum processing. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003, 30, 6-12.	1.4	32
41	A New Member of the Sin3 Family of Corepressors Is Essential for Cell Viability and Required for Retroelement Propagation in Fission Yeast. <i>Molecular and Cellular Biology</i> , 1999, 19, 2351-2365.	1.1	31
42	Regulatory mutants and transcriptional control of the <i>Serratia marcescens</i> extracellular nuclease gene. <i>Molecular Microbiology</i> , 1992, 6, 643-651.	1.2	30
43	Regulation of the <i>Serratia marcescens</i> Extracellular Nuclease: Positive Control by a Homolog of P2 Ogr Encoded by a Cryptic Prophage. <i>Journal of Molecular Biology</i> , 1996, 256, 264-278.	2.0	29
44	Bacteriophage Surface Display of an Immunoglobulin-binding Domain of <i>Staphylococcus aureus</i> Protein A. <i>Nature Biotechnology</i> , 1994, 12, 169-172.	9.4	24
45	N(2)-Substituted D,L-Cycloserine Derivatives: Synthesis and Evaluation as Alanine Racemase Inhibitors.. <i>Journal of Antibiotics</i> , 2003, 56, 160-168.	1.0	24
46	Crystallization and preliminary crystallographic analysis of a novel nuclease from <i>Serratia marcescens</i> . <i>Journal of Molecular Biology</i> , 1991, 222, 27-30.	2.0	23
47	Orphan Toxin OrtT (YdcX) of <i>Escherichia coli</i> Reduces Growth during the Stringent Response. <i>Toxins</i> , 2015, 7, 299-321.	1.5	23
48	Oligomeric Structure of Nitrilases: Effect of Mutating Interfacial Residues on Activity. <i>Annals of the New York Academy of Sciences</i> , 2005, 1056, 153-159.	1.8	21
49	Purification and preliminary crystallization of alanine racemase from <i>Streptococcus pneumoniae</i> . <i>BMC Microbiology</i> , 2007, 7, 40.	1.3	21
50	Helical structure of unidirectionally shadowed metal replicas of cyanide hydratase from <i>Gloeocercospora sorghi</i> . <i>Journal of Structural Biology</i> , 2008, 161, 111-119.	1.3	20
51	Disruption of polyamine modulation by a single amino acid substitution on the L3 loop of the OmpC porin channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1326, 201-212.	1.4	18
52	Nonlinear dielectric spectroscopy of live cells using superconducting quantum interference devices. <i>Applied Physics Letters</i> , 2005, 86, 023902.	1.5	18
53	The cyanide hydratase from <i>Neurospora crassa</i> forms a helix which has a dimeric repeat. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 271-278.	1.7	18
54	Crucial elements that maintain the interactions between the regulatory TnaC peptide and the ribosome exit tunnel responsible for Trp inhibition of ribosome function. <i>Nucleic Acids Research</i> , 2012, 40, 2247-2257.	6.5	17

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55	Engineering pH-tolerant mutants of a cyanide dihydratase. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 131-140.	1.7	15
56	Probing C-terminal interactions of the <i>Pseudomonas stutzeri</i> cyanide-degrading CynD protein. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3093-3102.	1.7	14
57	C-terminal hybrid mutant of <i>Bacillus pumilus</i> cyanide dihydratase dramatically enhances thermal stability and pH tolerance by reinforcing oligomerization. <i>Journal of Applied Microbiology</i> , 2015, 118, 881-889.	1.4	14
58	<i>Bacillus pumilus</i> Cyanide Dihydratase Mutants with Higher Catalytic Activity. <i>Frontiers in Microbiology</i> , 2016, 7, 1264.	1.5	14
59	Purification and properties of 2-hydroxy-6-oxo-6-(2-aminophenyl)hexa-2,4-dienoic acid hydrolase involved in microbial degradation of carbazole. <i>Protein Expression and Purification</i> , 2003, 28, 182-189.	0.6	13
60	Rapid generation of random mutant libraries. <i>Bioengineered Bugs</i> , 2010, 1, 337-340.	2.0	13
61	Xenogeneic silencing relies on temperature-dependent phosphorylation of the host H-NS protein in <i>Shewanella</i> . <i>Nucleic Acids Research</i> , 2021, 49, 3427-3440.	6.5	11
62	Draft Genome Sequence of the Cyanide-Utilizing Bacterium <i>Pseudomonas fluorescens</i> Strain NCIMB 11764. <i>Journal of Bacteriology</i> , 2012, 194, 6618-6619.	1.0	9
63	Cyanide-degrading nitrilases in nature. <i>Journal of General and Applied Microbiology</i> , 2018, 64, 90-93.	0.4	9
64	<i>Escherichia coli</i> cryptic prophages sense nutrients to influence persister cell resuscitation. <i>Environmental Microbiology</i> , 2021, 23, 7245-7254.	1.8	9
65	Probing an Interfacial Surface in the Cyanide Dihydratase from <i>Bacillus pumilus</i> , A Spiral Forming Nitrilase. <i>Frontiers in Microbiology</i> , 2015, 6, 1479.	1.5	8
66	Rapid Detection of Mutagens by Induction of Luciferase-Bearing Prophage in <i>Escherichia coli</i> . <i>Environmental Science & Technology</i> , 1996, 30, 2478-2483.	4.6	6
67	Purification and characterization of 2-aminobiphenyl-2,3-diol 1,2-dioxygenase from <i>Pseudomonas</i> sp. LD2. <i>Protein Expression and Purification</i> , 2003, 32, 35-43.	0.6	6
68	Nuclease Overexpression Mutants of <i>Serratia marcescens</i> . <i>Journal of Bacteriology</i> , 1998, 180, 2262-2264.	1.0	6
69	Study of the mechanism of action of p-chloromercuribenzoate on endonuclease from the bacterium <i>Serratia marcescens</i> . <i>Biochemistry (Moscow)</i> , 2001, 66, 323-327.	0.7	5
70	Catabolic plasmid specifying polychlorinated biphenyl degradation in <i>Cupriavidus</i> sp. strain SK4: Mobilization and expression in a pseudomonad. <i>Journal of Basic Microbiology</i> , 2015, 55, 338-345.	1.8	5
71	Inhibition of <i>Serratia marcescens</i> nuclease secretion by a truncated nuclease peptide. <i>Gene</i> , 1996, 172, 9-16.	1.0	4
72	Crystallization and preliminary X-ray study of alkaline alanine racemase from <i>Bacillus pseudofirmus</i> OF4. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 166-168.	0.7	4

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73	The NucE and NucD lysis proteins are not essential for secretion of the <i>Serratia marcescens</i> extracellular nuclease. <i>Microbiology (United Kingdom)</i> , 1999, 145, 1209-1216.	0.7	3
74	Temperature- and solvent-tolerant mutants of filamentous bacteriophage helper M13 KO7. <i>Biotechnology Letters</i> , 1999, 21, 87-90.	1.1	3
75	Multi-Copy Repression of <i>Serratia marcescens</i> Nuclease Expression by <i>dinI</i> . <i>Current Microbiology</i> , 2002, 44, 44-48.	1.0	3
76	Draft Genome Sequence of <i>Cupriavidus</i> sp. Strain SK-4, a di-ortho -Substituted Biphenyl-Utilizing Bacterium Isolated from Polychlorinated Biphenyl-Contaminated Sludge. <i>Genome Announcements</i> , 2014, 2, .	0.8	3
77	Residue Y70 of the Nitrilase Cyanide Dihydratase from <i>Bacillus pumilus</i> Is Critical for Formation and Activity of the Spiral Oligomer. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 2179-2183.	0.9	3
78	High efficiency transduction of single strand plasmid DNA into enteric bacteria. <i>Molecular Genetics and Genomics</i> , 1989, 218, 353-354.	2.4	2
79	Sequences of the <i>Serratia marcescens</i> <i>rplS</i> and <i>trmD</i> genes. <i>Gene</i> , 1994, 145, 147-148.	1.0	2
80	Draft Genome Sequence of <i>Cupriavidus</i> sp. Strain SK-3, a 4-Chlorobiphenyl- and 4-Chlorobenzoic Acid-Degrading Bacterium. <i>Genome Announcements</i> , 2014, 2, .	0.8	2
81	<i>Serratia marcescens</i> and its extracellular nuclease. , 0, .		2