Michael J Schurr

List of Publications by Year
in descending order

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76	5,866	71102	76900
papers	citations	41 h-index	74 g-index

77	77	77	5656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Space flight alters bacterial gene expression and virulence and reveals a role for global regulator Hfq. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16299-16304.	7.1	426
2	Mechanism of conversion to mucoidy in Pseudomonas aeruginosa infecting cystic fibrosis patients.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8377-8381.	7.1	402
3	Surfaces modified with nanometer-thick silver-impregnated polymeric films that kill bacteria but support growth of mammalian cells. Biomaterials, 2010, 31, 680-690.	11.4	233
4	Conversion of Pseudomonas aeruginosa to mucoidy in cystic fibrosis: environmental stress and regulation of bacterial virulence by alternative sigma factors. Journal of Bacteriology, 1994, 176, 2773-2780.	2.2	225
5	Control of AlgU, a member of the sigma E-like family of stress sigma factors, by the negative regulators MucA and MucB and Pseudomonas aeruginosa conversion to mucoidy in cystic fibrosis. Journal of Bacteriology, 1996, 178, 4997-5004.	2.2	225
6	Mechanisms of bacterial pathogenicity. Postgraduate Medical Journal, 2002, 78, 216-224.	1.8	206
7	Anaerobic killing of mucoid Pseudomonas aeruginosa by acidified nitrite derivatives under cystic fibrosis airway conditions. Journal of Clinical Investigation, 2006, 116, 436-446.	8.2	196
8	A549 Lung Epithelial Cells Grown as Three-Dimensional Aggregates: Alternative Tissue Culture Model for Pseudomonas aeruginosa Pathogenesis. Infection and Immunity, 2005, 73, 1129-1140.	2.2	190
9	Analysis of promoters controlled by the putative sigma factor AlgU regulating conversion to mucoidy in Pseudomonas aeruginosa: relationship to sigma E and stress response. Journal of Bacteriology, 1994, 176, 6688-6696.	2.2	178
10	Pseudomonas aeruginosa hypoxic or anaerobic biofilm infections within cystic fibrosis airways. Trends in Microbiology, 2009, 17, 130-138.	7.7	160
11	Two distinct loci affecting conversion to mucoidy in Pseudomonas aeruginosa in cystic fibrosis encode homologs of the serine protease HtrA. Journal of Bacteriology, 1996, 178, 511-523.	2.2	158
12	Transcriptional and Proteomic Responses ofPseudomonas aeruginosaPAO1 to Spaceflight Conditions Involve Hfq Regulation and Reveal a Role for Oxygen. Applied and Environmental Microbiology, 2011, 77, 1221-1230.	3.1	157
13	Functional equivalence of Escherichia coli sigma E and Pseudomonas aeruginosa AlgU: E. coli rpoE restores mucoidy and reduces sensitivity to reactive oxygen intermediates in algU mutants of P. aeruginosa. Journal of Bacteriology, 1995, 177, 3259-3268.	2.2	144
14	Media Ion Composition Controls Regulatory and Virulence Response of Salmonella in Spaceflight. PLoS ONE, 2008, 3, e3923.	2.5	133
15	Differentiation of Pseudomonas aeruginosa into the alginate-producing form: inactivation of mucB causes conversion to mucoidy. Molecular Microbiology, 1993, 9, 497-506.	2.5	116
16	Pseudomonas aeruginosa, mucoidy and the chronic infection phenotype in cystic fibrosis. Trends in Microbiology, 1995, 3, 351-356.	7.7	115
17	The MerR-Like Regulator BrlR Confers Biofilm Tolerance by Activating Multidrug Efflux Pumps in Pseudomonas aeruginosa Biofilms. Journal of Bacteriology, 2013, 195, 3352-3363.	2.2	114
18	Gene cluster controlling conversion to alginate-overproducing phenotype in Pseudomonas aeruginosa: functional analysis in a heterologous host and role in the instability of mucoidy. Journal of Bacteriology, 1994, 176, 3375-3382.	2.2	109

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19	Multiple promoters and induction by heat shock of the gene encoding the alternative sigma factor AlgU (sigma E) which controls mucoidy in cystic fibrosis isolates of Pseudomonas aeruginosa. Journal of Bacteriology, 1995, 177, 5670-5679.	2.2	108
20	Pseudomonas aeruginosabiofilm infections in cystic fibrosis: insights into pathogenic processes and treatment strategies. Expert Opinion on Therapeutic Targets, 2010, 14, 117-130.	3.4	108
21	Identification of AlgR-Regulated Genes in Pseudomonas aeruginosa by Use of Microarray Analysis. Journal of Bacteriology, 2004, 186, 5672-5684.	2.2	106
22	Transcriptome Analysis of Pseudomonas aeruginosa after Interaction with Human Airway Epithelial Cells. Infection and Immunity, 2004, 72, 5433-5438.	2.2	90
23	Pseudomonas aeruginosaAlgR Represses the Rhl Quorum-Sensing System in a Biofilm-Specific Manner. Journal of Bacteriology, 2007, 189, 7752-7764.	2.2	90
24	Dual regulation of mucoidy in Pseudomonas aeruginosa and sigma factor antagonism. Molecular Microbiology, 2000, 36, 341-351.	2.5	86
25	Proteomic, Microarray, and Signature-Tagged Mutagenesis Analyses of AnaerobicPseudomonas aeruginosaat pH 6.5, Likely Representing Chronic, Late-Stage Cystic Fibrosis Airway Conditions. Journal of Bacteriology, 2008, 190, 2739-2758.	2.2	86
26	Iron-Regulated Expression of Alginate Production, Mucoid Phenotype, and Biofilm Formation by Pseudomonas aeruginosa. MBio, 2014, 5, e01010-13.	4.1	84
27	The novel Pseudomonas aeruginosa twoâ€component regulator BfmR controls bacteriophageâ€mediated lysis and DNA release during biofilm development through PhdA. Molecular Microbiology, 2011, 81, 767-783.	2.5	75
28	The Transcriptional Regulator AlgR Controls Cyanide Production in Pseudomonas aeruginosa. Journal of Bacteriology, 2004, 186, 6837-6844.	2.2	73
29	Microcolony formation by the opportunistic pathogen <scp>P</scp>seudomonas aeruginosa requires pyruvate and pyruvate fermentation. Molecular Microbiology, 2012, 86, 819-835.	2.5	72
30	<scp>BrlR</scp> from <scp>P</scp>seudomonas aeruginosa is a câ€diâ€<scp>GMP</scp>â€responsive transcription factor. Molecular Microbiology, 2014, 92, 471-487.	2.5	72
31	Analysis of the Pseudomonas aeruginosa Regulon Controlled by the Sensor Kinase KinB and Sigma Factor RpoN. Journal of Bacteriology, 2012, 194, 1317-1330.	2.2	71
32	Microbial pathogenesis in cystic fibrosis: coâ€ordinate regulation of heatâ€shock response and conversion to mucoidy in Pseudomonas aeruginosa. Molecular Microbiology, 1997, 24, 411-420.	2.5	70
33	The Transcriptional Regulator AlgR Is Essential for Pseudomonas aeruginosa Pathogenesis. Infection and Immunity, 2002, 70, 6083-6093.	2.2	69
34	Activation of thePseudomonas aeruginosaAlgU Regulon throughmucAMutation Inhibits Cyclic AMP/Vfr Signaling. Journal of Bacteriology, 2010, 192, 5709-5717.	2.2	69
35	Identification of the algZ gene upstream of the response regulator algR and its participation in control of alginate production in Pseudomonas aeruginosa. Journal of Bacteriology, 1997, 179, 187-193.	2.2	67
36	Two-pronged survival strategy for the major cystic fibrosis pathogen, Pseudomonas aeruginosa, lacking the capacity to degrade nitric oxide during anaerobic respiration. EMBO Journal, 2007, 26, 3662-3672.	7.8	63

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37	The Pseudomonas aeruginosa AlgZR two-component system coordinates multiple phenotypes. Frontiers in Cellular and Infection Microbiology, 2014, 4, 82.	3.9	57
38	Skim milk enhances the preservation of thawed â˜'80ÂÂ°C bacterial stocks. Journal of Microbiological Methods, 2008, 75, 135-138.	1.6	55
39	Polymeric Multilayers that Contain Silver Nanoparticles can be Stamped onto Biological Tissues to Provide Antibacterial Activity. Advanced Functional Materials, 2011, 21, 1863-1873.	14.9	53
40	Acylaseâ€containing polyurethane coatings with antiâ€biofilm activity. Biotechnology and Bioengineering, 2016, 113, 2535-2543.	3.3	48
41	The longâ€chain fatty acid sensor, PsrA, modulates the expression of rpoS and the type III secretion exsCEBA operon in Pseudomonas aeruginosa. Molecular Microbiology, 2009, 73, 120-136.	2.5	44
42	Aspartate transcarbamoylase genes of Pseudomonas putida: requirement for an inactive dihydroorotase for assembly into the dodecameric holoenzyme. Journal of Bacteriology, 1995, 177, 1751-1759.	2.2	43
43	Pseudomonas aeruginosaAlgR Controls Cyanide Production in an AlgZ-Dependent Manner. Journal of Bacteriology, 2009, 191, 2993-3002.	2.2	43
44	Spatial transcriptomes within the Pseudomonas aeruginosa biofilm architecture. Molecular Microbiology, 2017, 106, 976-985.	2.5	42
45	Pseudomonas aeruginosa AlgR Phosphorylation Modulates Rhamnolipid Production and Motility. Journal of Bacteriology, 2013, 195, 5499-5515.	2.2	40
46	Catalase (KatA) Plays a Role in Protection against Anaerobic Nitric Oxide in Pseudomonas aeruginosa. PLoS ONE, 2014, 9, e91813.	2.5	40
47	PDGF-BB Does Not Accelerate Healing in Diabetic Mice with Splinted Skin Wounds. PLoS ONE, 2014, 9, e104447.	2.5	39
48	Antibacterial Efficacy of Silver-Impregnated Polyelectrolyte Multilayers Immobilized on a Biological Dressing in a Murine Wound Infection Model. Annals of Surgery, 2012, 256, 371-377.	4.2	38
49	Expression Analysis of the Pseudomonas aeruginosa AlgZR Two-Component Regulatory System. Journal of Bacteriology, 2015, 197, 736-748.	2.2	36
50	Pseudomonas aeruginosa AlgR Phosphorylation Status Differentially Regulates Pyocyanin and Pyoverdine Production. MBio, 2018, 9, .	4.1	36
51	Biochemical Characterization and Posttranslational Modification of Algu, a Regulator of Stress Response in Pseudomonas aeruginosa. Biochemical and Biophysical Research Communications, 1995, 216, 874-880.	2.1	35
52	The Pseudomonas aeruginosa flagellum confers resistance to pulmonary surfactant proteinâ€A by impacting the production of exoproteases through quorumâ€sensing. Molecular Microbiology, 2011, 79, 1220-1235.	2.5	29
53	Reduction in Wound Bioburden using a Silverâ€Loaded Dissolvable Microfilm Construct. Advanced Healthcare Materials, 2014, 3, 916-928.	7.6	29
54	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. Biomaterials, 2013, 34, 340-352.	11.4	25

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55	Which Bacterial Biofilm Exopolysaccharide Is Preferred, Psl or Alginate?. Journal of Bacteriology, 2013, 195, 1623-1626.	2.2	25
56	Inhibition of Pseudomonas aeruginosa biofilm formation on wound dressings. Wound Repair and Regeneration, 2015, 23, 842-854.	3.0	21
57	Optically Responsive, Smart Anti-Bacterial Coatings via the Photofluidization of Azobenzenes. ACS Applied Materials & Interfaces, 2019, 11, 1760-1765.	8.0	18
58	A rapid procedure for isolating mitochondrial DNA. Gene Analysis Techniques, 1988, 5, 102-104.	1.0	14
59	Antimicrobial Activity of an Amnion-Chorion Membrane to Oral Microbes. International Journal of Dentistry, 2019, 2019, 1-7.	1.5	14
60	Expression of mucoid induction factor MucE is dependent upon the alternate sigma factor AlgU in Pseudomonas aeruginosa. BMC Microbiology, 2013, 13, 232.	3.3	13
61	Genes Required for and Effects of Alginate Overproduction Induced by Growth of Pseudomonas aeruginosa on Pseudomonas Isolation Agar Supplemented with Ammonium Metavanadate. Journal of Bacteriology, 2013, 195, 4020-4036.	2.2	10
62	Integration of Silver Nanoparticle-impregnated Polyelectrolyte Multilayers Into Murine-Splinted Cutaneous Wound Beds. Journal of Burn Care and Research, 2013, 34, e359-e367.	0.4	10
63	Galliumâ€Loaded Dissolvable Microfilm Constructs that Provide Sustained Release of Ga³⁺ for Management of Biofilms. Advanced Healthcare Materials, 2015, 4, 2849-2859.	7.6	10
64	The anti-sigma factor MucA of Pseudomonas aeruginosa: Dramatic differences of a mucA22 vs. a Î”mucA mutant in anaerobic acidified nitrite sensitivity of planktonic and biofilm bacteria in vitro and during chronic murine lung infection. PLoS ONE, 2019, 14, e0216401.	2.5	10
65	Quantifying Pseudomonas aeruginosa Adhesion to Contact Lenses1. Eye and Contact Lens, 2003, 29, 65-68.	1.6	9
66	Selective Inhibition of Streptococci Biofilm Growth via a Hydroxylated Azobenzene Coating. Advanced Materials Interfaces, 2020, 7, 1902149.	3.7	6
67	AB569, a nontoxic chemical tandem that kills major human pathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4921-4930.	7.1	6
68	Pseudomonas aeruginosa Alginate Benefits Staphylococcus aureus?. Journal of Bacteriology, 2020, 202, .	2.2	4
69	AB569, a non-toxic combination of acidified nitrite and EDTA, is effective at killing the notorious Iraq/Afghanistan combat wound pathogens, multi-drug resistant Acinetobacter baumannii and Acinetobacter spp.. PLoS ONE, 2021, 16, e0247513.	2.5	4
70	The Bactericidal Tandem Drug, AB569: How to Eradicate Antibiotic-Resistant Biofilm Pseudomonas aeruginosa in Multiple Disease Settings Including Cystic Fibrosis, Burns/Wounds and Urinary Tract Infections. Frontiers in Microbiology, 2021, 12, 639362.	3.5	4
71	Bacterial reduction effect of four different dental lasers on titanium surfaces in vitro. Lasers in Medical Science, 2021, 36, 1759-1767.	2.1	4
72	Antimicrobial Susceptibility of Corynebacterium bovis Isolates from Immunodeficient Rodents. Comparative Medicine, 2021, 71, 210-214.	1.0	3

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73	Low-cost, Small-scale Decontamination of Laboratory Equipment by Using Chlorine Dioxide Gas. Journal of the American Association for Laboratory Animal Science, 2019, 58, 569-576.	1.2	1
74	Regulation of Exopolysaccharide Biosynthesis in Pseudomonas aeruginosa. , 0, , 171-189.		1
75	Synthesis, characterization and evaluation of azobenzene nanogels for their antibacterial properties in adhesive dentistry. European Journal of Oral Sciences, 2022, 130, .	1.5	1
76	Acrylated Hydroxyazobenzene Copolymers in Composite-Resin Matrix Inhibits Biofilms In Vitro.. Pediatric Dentistry (discontinued), 2021, 43, 484-491.	0.4	0