

Robert M Q Shanks

List of Publications by Year in descending order

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109
papers

4,300
citations

126708

33
h-index

133063

59
g-index

116
all docs

116
docs citations

116
times ranked

5062
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhamnolipids Modulate Swarming Motility Patterns of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2005, 187, 7351-7361.	1.0	392
2	<i>Saccharomyces cerevisiae</i> -Based Molecular Tool Kit for Manipulation of Genes from Gram-Negative Bacteria. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5027-5036.	1.4	384
3	Heparin Stimulates <i>Staphylococcus aureus</i> Biofilm Formation. <i>Infection and Immunity</i> , 2005, 73, 4596-4606.	1.0	247
4	Catheter lock solutions influence staphylococcal biofilm formation on abiotic surfaces. <i>Nephrology Dialysis Transplantation</i> , 2006, 21, 2247-2255.	0.4	191
5	Predatory Bacteria: A Potential Ally against Multidrug-Resistant Gram-Negative Pathogens. <i>PLoS ONE</i> , 2013, 8, e63397.	1.1	159
6	Widespread Fosfomycin Resistance in Gram-Negative Bacteria Attributable to the Chromosomal <i>fosA</i> Gene. <i>MBio</i> , 2017, 8, .	1.8	138
7	New yeast recombineering tools for bacteria. <i>Plasmid</i> , 2009, 62, 88-97.	0.4	106
8	<i>Serratia marcescens</i> OxyR Homolog Mediates Surface Attachment and Biofilm Formation. <i>Journal of Bacteriology</i> , 2007, 189, 7262-7272.	1.0	100
9	Structural Modification of Lipopolysaccharide Conferred by <i>mcr-1</i> in Gram-Negative ESKAPE Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	96
10	Global transcriptional response to mammalian temperature provides new insight into <i>Francisella tularensis</i> pathogenesis. <i>BMC Microbiology</i> , 2008, 8, 172.	1.3	79
11	An Eye to a Kill: Using Predatory Bacteria to Control Gram-Negative Pathogens Associated with Ocular Infections. <i>PLoS ONE</i> , 2013, 8, e66723.	1.1	78
12	Cyclic AMP negatively regulates prodigiosin production by <i>Serratia marcescens</i> . <i>Research in Microbiology</i> , 2010, 161, 158-167.	1.0	76
13	Genetic Evidence for an Alternative Citrate-Dependent Biofilm Formation Pathway in <i>Staphylococcus aureus</i> That Is Dependent on Fibronectin Binding Proteins and the GraRS Two-Component Regulatory System. <i>Infection and Immunity</i> , 2008, 76, 2469-2477.	1.0	70
14	The Toxin-Antitoxin MazEF Drives <i>Staphylococcus aureus</i> Biofilm Formation, Antibiotic Tolerance, and Chronic Infection. <i>MBio</i> , 2019, 10, .	1.8	68
15	Activities of Vancomycin-Containing Regimens against Colistin-Resistant <i>Acinetobacter baumannii</i> Clinical Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2103-2108.	1.4	64
16	Validation of Real-Time PCR for Laboratory Diagnosis of <i>Acanthamoeba</i> Keratitis. <i>Journal of Clinical Microbiology</i> , 2008, 46, 3232-3236.	1.8	58
17	The Cyclic AMP-Dependent Catabolite Repression System of <i>Serratia marcescens</i> Mediates Biofilm Formation through Regulation of Type 1 Fimbriae. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3461-3470.	1.4	56
18	<i>Francisella tularensis</i> <i>pyrF</i> Mutants Show that Replication in Nonmacrophages Is Sufficient for Pathogenesis <i>In Vivo</i> . <i>Infection and Immunity</i> , 2010, 78, 2607-2619.	1.0	56

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19	Slk19p is necessary to prevent separation of sister chromatids in meiosis I. <i>Current Biology</i> , 2000, 10, 1182-1190.	1.8	52
20	Isolation and identification of a bacteriocin with antibacterial and antibiofilm activity from <i>Citrobacter freundii</i> . <i>Archives of Microbiology</i> , 2012, 194, 575-587.	1.0	52
21	Mechanisms of Bacterial (<i>Serratia marcescens</i>) Attachment to, Migration along, and Killing of Fungal Hyphae. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2585-2594.	1.4	52
22	Association Between Fungal Contamination and Eye Bankâ€œPrepared Endothelial Keratoplasty Tissue. <i>JAMA Ophthalmology</i> , 2017, 135, 1184.	1.4	48
23	A <i>Serratia marcescens</i> PigP Homolog Controls Prodigiosin Biosynthesis, Swarming Motility and Hemolysis and Is Regulated by cAMP-CRP and HexS. <i>PLoS ONE</i> , 2013, 8, e57634.	1.1	48
24	<i>Serratia marcescens</i> Quinoprotein Glucose Dehydrogenase Activity Mediates Medium Acidification and Inhibition of Prodigiosin Production by Glucose. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6225-6235.	1.4	46
25	Bacterial Biofilms and Ocular Infections. <i>Ocular Surface</i> , 2005, 3, 73-80.	2.2	45
26	Diphosphonium Ionic Liquids as Broad-Spectrum Antimicrobial Agents. <i>Cornea</i> , 2012, 31, 810-816.	0.9	45
27	Superhemophobic and Antivirofouling Coating for Mechanically Durable and Wash-Stable Medical Textiles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22120-22128.	4.0	45
28	Putting on the brakes: Bacterial impediment of wound healing. <i>Scientific Reports</i> , 2015, 5, 14003.	1.6	43
29	In Vitro Comparison of Combination and Monotherapy for the Empiric and Optimal Coverage of Bacterial Keratitis Based on Incidence of Infection. <i>Cornea</i> , 2013, 32, 830-834.	0.9	39
30	The Prevalence of Bacteria, Fungi, Viruses, and <i>Acanthamoeba</i> From 3,004 Cases of Keratitis, Endophthalmitis, and Conjunctivitis. <i>Eye and Contact Lens</i> , 2020, 46, 265-268.	0.8	39
31	Predatory bacteria are nontoxic to the rabbit ocular surface. <i>Scientific Reports</i> , 2016, 6, 30987.	1.6	37
32	Viable bacteria persist on antibiotic spacers following twoâ€œstage revision for periprosthetic joint infection. <i>Journal of Orthopaedic Research</i> , 2018, 36, 452-458.	1.2	37
33	Elimination of Antibiotic Resistant Surgical Implant Biofilms Using an Engineered Cationic Amphipathic Peptide WLBU2. <i>Scientific Reports</i> , 2017, 7, 18098.	1.6	37
34	Serratamolide is a Hemolytic Factor Produced by <i>Serratia marcescens</i> . <i>PLoS ONE</i> , 2012, 7, e36398.	1.1	37
35	<i>Pseudomonas aeruginosa</i> Contact-Dependent Growth Inhibition Plays Dual Role in Host-Pathogen Interactions. <i>MSphere</i> , 2017, 2, .	1.3	36
36	Identification of SlpB, a Cytotoxic Protease from <i>Serratia marcescens</i> . <i>Infection and Immunity</i> , 2015, 83, 2907-2916.	1.0	35

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37	Prodigiosin pigment of <i>Serratia marcescens</i> is associated with increased biomass production. <i>Archives of Microbiology</i> , 2018, 200, 989-999.	1.0	35
38	<i>Moraxella nonliquefaciens</i> and <i>M. osloensis</i> Are Important <i>Moraxella</i> Species That Cause Ocular Infections. <i>Microorganisms</i> , 2019, 7, 163.	1.6	35
39	High-Throughput Analysis of Gene Function in the Bacterial Predator <i>Bdellovibrio bacteriovorus</i> . <i>MBio</i> , 2019, 10, .	1.8	35
40	Catabolite repression control of flagellum production by <i>Serratia marcescens</i> . <i>Research in Microbiology</i> , 2008, 159, 562-568.	1.0	34
41	Visualizing <i>Bdellovibrio bacteriovorus</i> by Using the tdTomato Fluorescent Protein. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1653-1661.	1.4	34
42	Utilization of an unstable plasmid and the I-SceI endonuclease to generate routine markerless deletion mutants in <i>Francisella tularensis</i> . <i>Journal of Microbiological Methods</i> , 2010, 80, 106-108.	0.7	33
43	Susceptibility of colistin-resistant pathogens to predatory bacteria. <i>Research in Microbiology</i> , 2018, 169, 52-55.	1.0	33
44	Evaluation of Polyhexamethylene Biguanide (PHMB) as a Disinfectant for Adenovirus. <i>JAMA Ophthalmology</i> , 2013, 131, 495.	1.4	29
45	Bacterial Cyclic AMP-Phosphodiesterase Activity Coordinates Biofilm Formation. <i>PLoS ONE</i> , 2013, 8, e71267.	1.1	29
46	Identification of a methicillin-resistant <i>Staphylococcus aureus</i> inhibitory compound isolated from <i>Serratia marcescens</i> . <i>Research in Microbiology</i> , 2013, 164, 821-826.	1.0	28
47	CD36 Provides Host Protection Against <i>Klebsiella pneumoniae</i> Intrapulmonary Infection by Enhancing Lipopolysaccharide Responsiveness and Macrophage Phagocytosis. <i>Journal of Infectious Diseases</i> , 2016, 214, 1865-1875.	1.9	28
48	Topical levofloxacin 1.5% overcomes <i>in vitro</i> resistance in rabbit keratitis models. <i>Acta Ophthalmologica</i> , 2010, 88, e120-5.	0.6	27
49	<i>Serratia marcescens</i> Cyclic AMP Receptor Protein Controls Transcription of EepR, a Novel Regulator of Antimicrobial Secondary Metabolites. <i>Journal of Bacteriology</i> , 2015, 197, 2468-2478.	1.0	27
50	<i>Vibrio cholerae</i> motility exerts drag force to impede attack by the bacterial predator <i>Bdellovibrio bacteriovorus</i> . <i>Nature Communications</i> , 2018, 9, 4757.	5.8	27
51	Blowing epithelial cell bubbles with GumB: ShlA-family pore-forming toxins induce blebbing and rapid cellular death in corneal epithelial cells. <i>PLoS Pathogens</i> , 2019, 15, e1007825.	2.1	27
52	Modulation of the Epithelial Sodium Channel (ENaC) by Bacterial Metalloproteases and Protease Inhibitors. <i>PLoS ONE</i> , 2014, 9, e100313.	1.1	26
53	New Vector Tools with a Hygromycin Resistance Marker for Use with Opportunistic Pathogens. <i>Molecular Biotechnology</i> , 2011, 48, 7-14.	1.3	25
54	EepR Mediates Secreted-Protein Production, Desiccation Survival, and Proliferation in a Corneal Infection Model. <i>Infection and Immunity</i> , 2015, 83, 4373-4382.	1.0	22

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55	An IgaA/UmoB Family Protein from <i>Serratia marcescens</i> Regulates Motility, Capsular Polysaccharide Biosynthesis, and Secondary Metabolite Production. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	22
56	Recurrent enterococcal endophthalmitis seeded by an intraocular lens biofilm. <i>Journal of Cataract and Refractive Surgery</i> , 2011, 37, 1355-1359.	0.7	21
57	AzaSite® Inhibits <i>Staphylococcus aureus</i> and Coagulase-Negative <i>Staphylococcus</i> Biofilm Formation In Vitro. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2010, 26, 557-562.	0.6	20
58	Platelets inhibit apoptotic lung epithelial cell death and protect mice against infection-induced lung injury. <i>Blood Advances</i> , 2019, 3, 432-445.	2.5	19
59	The Kar3-Interacting Protein Cik1p Plays a Critical Role in Passage Through Meiosis I in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2001, 159, 939-951.	1.2	18
60	Contribution of the TetB Efflux Pump to Minocycline Susceptibility among Carbapenem-Resistant <i>Acinetobacter baumannii</i> Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	18
61	Mutation of <i>crp</i> mediates <i>Serratia marcescens</i> serralyisin and global secreted protein production. <i>Research in Microbiology</i> , 2013, 164, 38-45.	1.0	17
62	In Vitro Evaluation of a Hypochlorous Acid Hygiene Solution on Established Biofilms. <i>Eye and Contact Lens</i> , 2018, 44, S187-S191.	0.8	17
63	Benzalkonium Chloride Demonstrates Concentration-Dependent Antiviral Activity Against Adenovirus <i>in Vitro</i> . <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2019, 35, 311-314.	0.6	17
64	Moraxella Keratitis: Analysis of Risk Factors, Clinical Characteristics, Management, and Treatment Outcomes. <i>American Journal of Ophthalmology</i> , 2019, 197, 17-22.	1.7	17
65	The <i>in Vitro</i> Evaluation of Povidone-Iodine Against Multiple Ocular Adenoviral Types. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2019, 35, 132-136.	0.6	16
66	Thermoregulation of Prodigiosin Biosynthesis by <i>Serratia marcescens</i> is Controlled at the Transcriptional Level and Requires HexS. <i>Polish Journal of Microbiology</i> , 2019, 68, 43-50.	0.6	16
67	Coal-Derived Functionalized Nano-Graphene Oxide for Bleach Washable, Durable Antiviral Fabric Coatings. <i>ACS Applied Nano Materials</i> , 2022, 5, 718-728.	2.4	16
68	Development of a Practical Complete-Kill Assay to Evaluate Anti-Acanthamoeba Drugs. <i>JAMA Ophthalmology</i> , 2013, 131, 1459.	1.4	15
69	Cyclic-AMP inhibition of fimbriae and prodigiosin production by <i>Serratia marcescens</i> is strain-dependent. <i>Archives of Microbiology</i> , 2014, 196, 323-330.	1.0	15
70	Bacteria induce autophagy in a human ocular surface cell line. <i>Experimental Eye Research</i> , 2018, 168, 12-18.	1.2	15
71	Suppressor analysis of <i>eepR</i> mutant defects reveals coordinate regulation of secondary metabolites and serralyisin biosynthesis by EepR and HexS. <i>Microbiology (United Kingdom)</i> , 2017, 163, 280-288.	0.7	15
72	The LysR Transcription Factor, HexS, Is Required for Glucose Inhibition of Prodigiosin Production by <i>Serratia marcescens</i> . <i>Advances in Microbiology</i> , 2012, 02, 511-517.	0.3	14

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73	CAP37-Derived Antimicrobial Peptides Have <i>In Vitro</i> Antiviral Activity against Adenovirus and Herpes Simplex Virus Type 1. <i>Current Eye Research</i> , 2009, 34, 241-249.	0.7	13
74	The Comparison of Fluoroquinolones to Nonfluoroquinolone Antibacterial Agents for the Prevention of Endophthalmitis in a Rabbit Model. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012, 28, 604-608.	0.6	13
75	Predatory prokaryotes wage war against eye infections. <i>Future Microbiology</i> , 2014, 9, 429-432.	1.0	13
76	SlpE is a calcium-dependent cytotoxic metalloprotease associated with clinical isolates of <i>Serratia marcescens</i> . <i>Research in Microbiology</i> , 2017, 168, 567-574.	1.0	12
77	Serralysin family metalloproteases protects <i>Serratia marcescens</i> from predation by the predatory bacteria <i>Micavibrio aeruginosavorus</i> . <i>Scientific Reports</i> , 2018, 8, 14025.	1.6	12
78	Production of prodigiosin pigment by <i>Serratia marcescens</i> is negatively associated with cellular ATP levels during high-rate, low-cell-density growth. <i>Canadian Journal of Microbiology</i> , 2020, 66, 243-255.	0.8	12
79	Clearance of Gram-Negative Bacterial Pathogens from the Ocular Surface by Predatory Bacteria. <i>Antibiotics</i> , 2021, 10, 810.	1.5	12
80	Exploitation of a "hockey-puck" phenotype to identify pilus and biofilm regulators in <i>Serratia marcescens</i> through genetic analysis. <i>Canadian Journal of Microbiology</i> , 2016, 62, 83-93.	0.8	11
81	A Novel Cell-Associated Protection Assay Demonstrates the Ability of Certain Antibiotics To Protect Ocular Surface Cell Lines from Subsequent Clinical <i>Staphylococcus aureus</i> Challenge. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3788-3794.	1.4	10
82	Dexamethasone Diffusion Across Contact Lenses Is Inhibited by <i>Staphylococcus epidermidis</i> Biofilms in Vitro. <i>Cornea</i> , 2014, 33, 1083-1087.	0.9	9
83	Diffusion of Antimicrobials Across Silicone Hydrogel Contact Lenses. <i>Eye and Contact Lens</i> , 2015, 41, 277-280.	0.8	9
84	Gene Acquisition by a Distinct Phyletic Group within <i>Streptococcus pneumoniae</i> Promotes Adhesion to the Ocular Epithelium. <i>MSphere</i> , 2017, 2, .	1.3	9
85	Topical Vancomycin 5% Is More Efficacious Than 2.5% and 1.25% for Reducing Viable Methicillin-Resistant <i>Staphylococcus aureus</i> in Infectious Keratitis. <i>Cornea</i> , 2020, 39, 250-253.	0.9	9
86	Speciation and Antibiotic Susceptibilities of Coagulase Negative <i>Staphylococci</i> Isolated from Ocular Infections. <i>Antibiotics</i> , 2021, 10, 721.	1.5	9
87	The Rcs Stress Response System Regulator GumB Modulates <i>Serratia marcescens</i> -Induced Inflammation and Bacterial Proliferation in a Rabbit Keratitis Model and Cytotoxicity <i>In Vitro</i> . <i>Infection and Immunity</i> , 2021, 89, e0011121.	1.0	9
88	Antibiotics Used in Empiric Treatment of Ocular Infections Trigger the Bacterial Rcs Stress Response System Independent of Antibiotic Susceptibility. <i>Antibiotics</i> , 2021, 10, 1033.	1.5	9
89	Endophthalmitis Prophylaxis Using a Single Drop of Thermoresponsive Controlled-Release Microspheres Loaded with Moxifloxacin in a Rabbit Model. <i>Translational Vision Science and Technology</i> , 2016, 5, 12.	1.1	8
90	Genomic and phenotypic diversity of <i>Enterococcus faecalis</i> isolated from endophthalmitis. <i>PLoS ONE</i> , 2021, 16, e0250084.	1.1	8

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91	Use of Collagen Binding Domains to Deliver Molecules to the Cornea. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2019, 35, 491-496.	0.6	7
92	Filiciclovir Is an Active Antiviral Agent against Ocular Adenovirus Isolates In Vitro and in the Ad5/NZW Rabbit Ocular Model. <i>Pharmaceuticals</i> , 2021, 14, 294.	1.7	7
93	Analysis of the <i>kar3</i> meiotic arrest in <i>Saccharomyces cerevisiae</i> . <i>Cell Cycle</i> , 2004, 3, 363-71.	1.3	7
94	The In Vitro Evaluation of Tigecycline and the In Vivo Evaluation of RPX-978 (0.5% Tigecycline) as an Ocular Antibiotic. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 119-126.	0.6	6
95	mCloverBlaster: A tool to make markerless deletions and fusions using lambda red and I-SceI in Gram-negative bacterial genomes. <i>Journal of Microbiological Methods</i> , 2020, 178, 106058.	0.7	6
96	Biologically active pigment and ShIA cytolysin of <i>Serratia marcescens</i> induce autophagy in a human ocular surface cell line. <i>BMC Ophthalmology</i> , 2020, 20, 120.	0.6	6
97	Topical Astodimer Sodium, a Non-Toxic Polyanionic Dendrimer, Demonstrates Antiviral Activity in an Experimental Ocular Adenovirus Infection Model. <i>Molecules</i> , 2021, 26, 3419.	1.7	6
98	<i>Staphylococcus aureus</i> Isolated from Endophthalmitis Are Hospital-Acquired Based on Panton-Valentine Leukocidin and Antibiotic Susceptibility Testing. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012, 28, 12-16.	0.6	5
99	Xylose-Inducible Promoter Tools for <i>Pseudomonas</i> Species and Their Use in Implicating a Role for the Type II Secretion System Protein XcpQ in the Inhibition of Corneal Epithelial Wound Closure. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	5
100	Transcription Factor EepR Is Required for <i>Serratia marcescens</i> Host Proinflammatory Response by Corneal Epithelial Cells. <i>Antibiotics</i> , 2021, 10, 770.	1.5	5
101	Release of Moxifloxacin From Corneal Collagen Shields. <i>Eye and Contact Lens</i> , 2018, 44, S143-S147.	0.8	4
102	Validation of PCR for the detection of <i>Pseudomonas aeruginosa</i> from corneal samples. <i>International Journal of Ophthalmology</i> , 2011, 4, 262-8.	0.5	4
103	Differential susceptibility of airway and ocular surface cell lines to FlhDC-mediated virulence factors PhIA and ShIA from <i>Serratia marcescens</i> . <i>Journal of Medical Microbiology</i> , 2021, 70, .	0.7	3
104	Postsurgical Cataract Prophylaxis With Intravitreal Triamcinolone-Moxifloxacin May Not Be Optimal For Preventing Endophthalmitis. <i>Eye and Contact Lens</i> , 2018, 44, S338-S343.	0.8	2
105	The in vitro Evaluation of the Activity of COVID-19 Antiviral Drugs Against Adenovirus. <i>Clinical Ophthalmology</i> , 2021, Volume 15, 4787-4793.	0.9	2
106	Mechanical properties of carbon monoxide reduced graphene-polyamide-6 nanocomposites prepared by melt-mixing. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
107	Endophthalmitis after intravitreal triamcinolone-moxifloxacin. <i>Journal of Cataract and Refractive Surgery</i> , 2019, 45, 705-706.	0.7	1
108	Bacterial Keratitis: Similar Bacterial and Clinical Outcomes in Female versus Male New Zealand White Rabbits Infected with <i>Serratia marcescens</i> . <i>Current Eye Research</i> , 2022, 47, 505-510.	0.7	1

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109	Response to Carifi and Kopsachilis. Journal of Ocular Pharmacology and Therapeutics, 2013, 29, 381-381.	0.6	0