Jason W Rosch

List of Publications by Year
in descending order

80 papers	2,889 citations	159585 30 h-index	206112 48 g-index
95 all docs	95 docs citations	95 times ranked	3753 citing authors

#	Article	IF	Citations
1	Identification of a two-component fatty acid kinase responsible for host fatty acid incorporation by Staphylococcus aureus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10532-10537.	7.1	141
2	Control of Virulence by Small RNAs in Streptococcus pneumoniae. PLoS Pathogens, 2012, 8, e1002788.	4.7	137
3	Role of the manganese efflux system mntE for signalling and pathogenesis in Streptococcus pneumoniae. Molecular Microbiology, 2009, 72, 12-25.	2.5	129
4	A Microdomain for Protein Secretion in Gram-Positive Bacteria. Science, 2004, 304, 1513-1515.	12.6	128
5	Gut Microbiome Composition Predicts Infection Risk During Chemotherapy in Children With Acute Lymphoblastic Leukemia. Clinical Infectious Diseases, 2018, 67, 541-548.	5.8	122
6	Direct interactions with influenza promote bacterial adherence during respiratory infections. Nature Microbiology, 2019, 4, 1328-1336.	13.3	106
7	Statins protect against fulminant pneumococcal infection and cytolysin toxicity in a mouse model of sickle cell disease. Journal of Clinical Investigation, 2010, 120, 627-635.	8.2	103
8	Pyruvate Oxidase as a Critical Link between Metabolism and Capsule Biosynthesis in Streptococcus pneumoniae. PLoS Pathogens, 2016, 12, e1005951.	4.7	93
9	Mechanism for Sortase Localization and the Role of Sortase Localization in Efficient Pilus Assembly in Enterococcus faecalis. Journal of Bacteriology, 2009, 191, 3237-3247.	2.2	89
10	The ExPortal: an organelle dedicated to the biogenesis of secreted proteins inStreptococcus pyogenes. Molecular Microbiology, 2005, 58, 959-968.	2.5	87
11	Role of Copper Efflux in Pneumococcal Pathogenesis and Resistance to Macrophage-Mediated Immune Clearance. Infection and Immunity, 2015, 83, 1684-1694.	2.2	80
12	Calcium efflux is essential for bacterial survival in the eukaryotic host. Molecular Microbiology, 2008, 70, 435-444.	2.5	79
13	RelA Mutant Enterococcus faecium with Multiantibiotic Tolerance Arising in an Immunocompromised Host. MBio, 2017, 8, .	4.1	72
14	The roles of transition metals in the physiology and pathogenesis of Streptococcus pneumoniae. Frontiers in Cellular and Infection Microbiology, 2013, 3, 92.	3.9	62
15	Astrovirus infects actively secreting goblet cells and alters the gut mucus barrier. Nature Communications, 2020, 11, 2097.	12.8	61
16	Genomic Analyses of Pneumococci from Children with Sickle Cell Disease Expose Host-Specific Bacterial Adaptations and Deficits in Current Interventions. Cell Host and Microbe, 2014, 15, 587-599.	11.0	57
17	Pneumolysin: Pathogenesis and Therapeutic Target. Frontiers in Microbiology, 2020, 11, 1543.	3.5	57
18	Anionic Lipids Enriched at the ExPortal of Streptococcus pyogenes. Journal of Bacteriology, 2007, 189, 801-806.	2.2	55

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19	Copper intoxication inhibits aerobic nucleotide synthesis in Streptococcus pneumoniae. Metallomics, 2015, 7, 786-794.	2.4	53
20	Convergence of Regulatory Networks on the Pilus Locus of Streptococcus pneumoniae. Infection and Immunity, 2008, 76, 3187-3196.	2.2	49
21	Bacterial Factors Required for Transmission of Streptococcus pneumoniae in Mammalian Hosts. Cell Host and Microbe, 2019, 25, 884-891.e6.	11.0	48
22	Unencapsulated Streptococcus pneumoniae from conjunctivitis encode variant traits and belong to a distinct phylogenetic cluster. Nature Communications, 2014, 5, 5411.	12.8	45
23	A Pathogen-Selective Antibiotic Minimizes Disturbance to the Microbiome. Antimicrobial Agents and Chemotherapy, 2016, 60, 4264-4273.	3.2	42
24	AdcAII of Streptococcus pneumoniae Affects Pneumococcal Invasiveness. PLoS ONE, 2016, 11, e0146785.	2.5	39
25	Staphylococcus aureus Fatty Acid Auxotrophs Do Not Proliferate in Mice. Antimicrobial Agents and Chemotherapy, 2013, 57, 5729-5732.	3.2	38
26	A liveâ€attenuated pneumococcal vaccine elicits <scp>CD</scp>4⁺<scp>T</scp>â€cell dependent class switching and provides serotype independent protection against acute otitis media. EMBO Molecular Medicine, 2014, 6, 141-154.	6.9	38
27	Promiscuous signaling by a regulatory system unique to the pandemic PMEN1 pneumococcal lineage. PLoS Pathogens, 2017, 13, e1006339.	4.7	38
28	The Transcriptional landscape of Streptococcus pneumoniae TIGR4 reveals a complex operon architecture and abundant riboregulation critical for growth and virulence. PLoS Pathogens, 2018, 14, e1007461.	4.7	37
29	An Epithelial Integrin Regulates the Amplitude of Protective Lung Interferon Responses against Multiple Respiratory Pathogens. PLoS Pathogens, 2016, 12, e1005804.	4.7	37
30	Evolution of vancomycin-resistant Enterococcus faecium during colonization and infection in immunocompromised pediatric patients. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11703-11714.	7.1	36
31	Influences of Vitamin A on Vaccine Immunogenicity and Efficacy. Frontiers in Immunology, 2019, 10, 1576.	4.8	34
32	Pyruvate oxidase of Streptococcus pneumoniae contributes to pneumolysin release. BMC Microbiology, 2016, 16, 271.	3.3	32
33	Increased Zinc Availability Enhances Initial Aggregation and Biofilm Formation of Streptococcus pneumoniae. Frontiers in Cellular and Infection Microbiology, 2017, 7, 233.	3.9	32
34	Hydroxyurea therapy of a murine model of sickle cell anemia inhibits the progression of pneumococcal disease by down-modulating E-selectin. Blood, 2012, 119, 1915-1921.	1.4	29
35	A Perfect Storm: Increased Colonization and Failure of Vaccination Leads to Severe Secondary Bacterial Infection in Influenza Virus-Infected Obese Mice. MBio, 2017, 8, .	4.1	26
36	Detection of critical antibiotic resistance genes through routine microbiome surveillance. PLoS ONE, 2019, 14, e0213280.	2.5	26

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37	Host Fatty Acid Utilization by Staphylococcus aureus at the Infection Site. MBio, 2020, 11, .	4.1	26
38	Inflammatory molecule reduction with hydroxyurea therapy in children with sickle cell anemia. Haematologica, 2018, 103, e50-e54.	3.5	25
39	Bacterial Community Succession, Transmigration, and Differential Gene Transcription in a Controlled Vertebrate Decomposition Model. Frontiers in Microbiology, 2019, 10, 745.	3.5	25
40	Role of the pyruvate metabolic network on carbohydrate metabolism and virulence in Streptococcus pneumoniae. Molecular Microbiology, 2020, 114, 536-552.	2.5	24
41	The Signal Recognition Particle Pathway Is Required for Virulence in Streptococcus pyogenes. Infection and Immunity, 2008, 76, 2612-2619.	2.2	23
42	Allergic inflammation alters the lung microbiome and hinders synergistic co-infection with H1N1 influenza virus and Streptococcus pneumoniae in C57BL/6 mice. Scientific Reports, 2019, 9, 19360.	3.3	23
43	Respiratory Bacteria Stabilize and Promote Airborne Transmission of Influenza A Virus. MSystems, 2020, 5, .	3.8	22
44	Live Attenuated Influenza Virus Increases Pneumococcal Translocation and Persistence Within the Middle Ear. Journal of Infectious Diseases, 2015, 212, 195-201.	4.0	21
45	Characterization of NAD salvage pathways and their role in virulence in Streptococcus pneumoniae. Microbiology (United Kingdom), 2015, 161, 2127-2136.	1.8	20
46	Pneumococcal neuraminidase activates TGF-Î² signalling. Microbiology (United Kingdom), 2017, 163, 1198-1207.	1.8	19
47	Cadmium stress dictates central carbon flux and alters membrane composition in Streptococcus pneumoniae. Communications Biology, 2020, 3, 694.	4.4	19
48	Saccharomyces cerevisiae -derived virus-like particle parvovirus B19 vaccine elicits binding and neutralizing antibodies in a mouse model for sickle cell disease. Vaccine, 2017, 35, 3615-3620.	3.8	18
49	Experimental Evolution In Vivo To Identify Selective Pressures during Pneumococcal Colonization. MSystems, 2020, 5, .	3.8	18
50	Dysregulation of Streptococcus pneumoniae zinc homeostasis breaks ampicillin resistance in a pneumonia infection model. Cell Reports, 2022, 38, 110202.	6.4	18
51	Immunosuppression broadens evolutionary pathways to drug resistance and treatment failure during Acinetobacter baumannii pneumonia in mice. Nature Microbiology, 2022, 7, 796-809.	13.3	17
52	Aminomethyl spectinomycins as therapeutics for drug-resistant respiratory tract and sexually transmitted bacterial infections. Science Translational Medicine, 2015, 7, 288ra75.	12.4	16
53	Prevnar-13 vaccine failure in a mouse model for vitamin A deficiency. Vaccine, 2017, 35, 6264-6268.	3.8	14
54	Streptococcus pneumoniaemetal homeostasis alters cellular metabolism. Metallomics, 2020, 12, 1416-1427.	2.4	13

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55	Vancomycin Heteroresistance and Clinical Outcomes in Bloodstream Infections Caused by Coagulase-Negative Staphylococci. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	13
56	Total RNA Analysis of Bacterial Community Structural and Functional Shifts Throughout Vertebrate Decomposition. Journal of Forensic Sciences, 2019, 64, 1707-1719.	1.6	12
57	A genome-wide atlas of antibiotic susceptibility targets and pathways to tolerance. Nature Communications, 2022, 13, .	12.8	12
58	The actin-regulatory protein Hem-1 is essential for alveolar macrophage development. Journal of Experimental Medicine, 2021, 218, .	8.5	10
59	Antibiotic prophylaxis and the gastrointestinal resistome in paediatric patients with acute lymphoblastic leukaemia: a cohort study with metagenomic sequencing analysis. Lancet Microbe, The, 2021, 2, e159-e167.	7.3	10
60	Promises and pitfalls of live attenuated pneumococcal vaccines. Human Vaccines and Immunotherapeutics, 2014, 10, 3000-3003.	3.3	9
61	Protective Capacity of Statins during Pneumonia Is Dependent on Etiological Agent and Obesity. Frontiers in Cellular and Infection Microbiology, 2018, 8, 41.	3.9	9
62	Pneumococcal Colonization and Virulence Factors Identified Via Experimental Evolution in Infection Models. Molecular Biology and Evolution, 2021, 38, 2209-2226.	8.9	9
63	Secondary infection withStreptococcus pneumoniaedecreases influenza virus replication and is linked to severe disease. FEMS Microbes, 2022, 3, xtac007.	2.1	9
64	A Tn-seq Screen of Streptococcus pneumoniae Uncovers DNA Repair as the Major Pathway for Desiccation Tolerance and Transmission. Infection and Immunity, 2021, 89, e0071320.	2.2	8
65	Oleate Hydratase (OhyA) Is a Virulence Determinant in Staphylococcus aureus. Microbiology Spectrum, 2021, 9, e0154621.	3.0	8
66	Vascular Permeability Drives Susceptibility to Influenza Infection in a Murine Model of Sickle Cell Disease. Scientific Reports, 2017, 7, 43308.	3.3	7
67	Fitness Landscape of the Immune Compromised Favors the Emergence of Antibiotic Resistance. ACS Infectious Diseases, 2018, 4, 1275-1277.	3.8	7
68	A Cross-Reactive Protein Vaccine Combined with PCV-13 Prevents Streptococcus pneumoniae- and Haemophilus influenzae-Mediated Acute Otitis Media. Infection and Immunity, 2019, 87, .	2.2	7
69	Advancing Genetic Tools in Streptococcus pneumoniae. Genes, 2020, 11, 965.	2.4	7
70	Effect of Oral Streptococci Expressing Pneumococcus-like Cross-Reactive Capsule Types on World Health Organization Recommended Pneumococcal Carriage Detection Procedure. Clinical Infectious Diseases, 2022, 75, 647-656.	5.8	7
71	Transkingdom Interactions Important for the Pathogenesis of Human Viruses. Journal of Infectious Diseases, 2021, 223, S201-S208.	4.0	6
72	Convergence of Inflammatory Pathways in Allergic Asthma and Sickle Cell Disease. Frontiers in Immunology, 2019, 10, 3058.	4.8	6

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73	Dynamic Pneumococcal Genetic Adaptations Support Bacterial Growth and Inflammation during Coinfection with Influenza. Infection and Immunity, 2021, 89, e0002321.	2.2	6
74	JMM Profile: Streptococcus pneumoniae: sugar-coated captain of the men of death. Journal of Medical Microbiology, 2021, 70, .	1.8	6
75	Efficacy of Aminomethyl Spectinomycins against Complex Upper Respiratory Tract Bacterial Infections. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	4
76	Caging and COM-Bating Antibiotic Resistance. Cell Host and Microbe, 2020, 27, 489-490.	11.0	3
77	Adapting a diet from sugar to meat: double-dealing genes of Streptococcus pyogenes. Molecular Microbiology, 2007, 64, 257-259.	2.5	2
78	Close Encounters of the Viral Kind: Crossâ€Kingdom Synergies at the Hostâ€“Pathogen Interface. BioEssays, 2019, 41, 1900128.	2.5	2
79	Regulatory Strategies of the Pneumococcus. , 2015, , 109-128.		1
80	Polymicrobial Interactions Operative during Pathogen Transmission. MBio, 2021, 12, .	4.1	1