Ryan C Hunter

List of Publications by Year
in descending order

56 papers	3,754 citations	257101 24 h-index	205818 48 g-index
68 all docs	68 docs citations	68 times ranked	6380 citing authors

#	Article	IF	Citations
1	Systematic improvement of amplicon marker gene methods for increased accuracy in microbiome studies. Nature Biotechnology, 2016, 34, 942-949.	9.4	623
2	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 244-249.	3.3	405
3	Bacterial Community Morphogenesis Is Intimately Linked to the Intracellular Redox State. Journal of Bacteriology, 2013, 195, 1371-1380.	1.0	268
4	Mapping a multiplexed zoo of mRNA expression. Development (Cambridge), 2016, 143, 3632-3637.	1.2	198
5	Hopanoids Play a Role in Membrane Integrity and pH Homeostasis in Rhodopseudomonas palustris TIE-1. Journal of Bacteriology, 2009, 191, 6145-6156.	1.0	189
6	Application of a pH-Sensitive Fluoroprobe (C-SNARF-4) for pH Microenvironment Analysis in Pseudomonas aeruginosa Biofilms. Applied and Environmental Microbiology, 2005, 71, 2501-2510.	1.4	172
7	Evidence and Role for Bacterial Mucin Degradation in Cystic Fibrosis Airway Disease. PLoS Pathogens, 2016, 12, e1005846.	2.1	170
8	Atomic force microscopy and theoretical considerations of surface properties and turgor pressures of bacteria. Colloids and Surfaces B: Biointerfaces, 2002, 23, 213-230.	2.5	167
9	Phenazine Content in the Cystic Fibrosis Respiratory Tract Negatively Correlates with Lung Function and Microbial Complexity. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 738-745.	1.4	158
10	Ferrous Iron Is a Significant Component of Bioavailable Iron in Cystic Fibrosis Airways. MBio, 2013, 4, .	1.8	147
11	Long-lived and short-lived reactive species produced by a cold atmospheric pressure plasma jet for the inactivation of Pseudomonas aeruginosa and Staphylococcus aureus. Free Radical Biology and Medicine, 2018, 124, 275-287.	1.3	127
12	Cross-feeding modulates antibiotic tolerance in bacterial communities. ISME Journal, 2018, 12, 2723-2735.	4.4	121
13	The Upper Respiratory Tract as a Microbial Source for Pulmonary Infections in Cystic Fibrosis. Parallels from Island Biogeography. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1309-1315.	2.5	100
14	High-Resolution Visualization of Pseudomonas aeruginosa PAO1 Biofilms by Freeze-Substitution Transmission Electron Microscopy. Journal of Bacteriology, 2005, 187, 7619-7630.	1.0	91
15	Single cell resolution of SARS-CoV-2 tropism, antiviral responses, and susceptibility to therapies in primary human airway epithelium. PLoS Pathogens, 2021, 17, e1009292.	2.1	76
16	2â€Methylhopanoids are maximally produced in akinetes of Nostoc punctiforme: geobiological implications. Geobiology, 2009, 7, 524-532.	1.1	75
17	The RND-family transporter, HpnN, is required for hopanoid localization to the outer membrane of Rhodopseudomonas palustris TIE-1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1045-51.	3.3	58
18	A Putative ABC Transporter, HatABCDE, Is among Molecular Determinants of Pyomelanin Production inPseudomonas aeruginosa. Journal of Bacteriology, 2010, 192, 5962-5971.	1.0	52

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19	Mapping the Speciation of Iron in Pseudomonas aeruginosa Biofilms Using Scanning Transmission X-ray Microscopy. Environmental Science & Technology, 2008, 42, 8766-8772.	4.6	43
20	Caenorhabditis elegans NPR-1â€“mediated behaviors are suppressed in the presence of mucoid bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12887-12892.	3.3	40
21	Disruption of Cross-Feeding Inhibits Pathogen Growth in the Sputa of Patients with Cystic Fibrosis. MSphere, 2020, 5, .	1.3	33
22	The Microbiome and Chronic Rhinosinusitis. Immunology and Allergy Clinics of North America, 2020, 40, 251-263.	0.7	32
23	16S rRNA gene sequencing reveals site-specific signatures of the upper and lower airways of cystic fibrosis patients. Journal of Cystic Fibrosis, 2018, 17, 204-212.	0.3	31
24	Ceftolozane-tazobactam and ceftazidime-avibactam activity against Î²-lactam-resistant Pseudomonas aeruginosa and extended-spectrum Î²-lactamase-producing Enterobacterales clinical isolates from U.S. medical centres. Journal of Global Antimicrobial Resistance, 2020, 22, 689-694.	0.9	31
25	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. MBio, 2021, 12, e0176321.	1.8	26
26	Bioorthogonal non-canonical amino acid tagging reveals translationally active subpopulations of the cystic fibrosis lung microbiota. Nature Communications, 2020, 11, 2287.	5.8	25
27	Hippea jasoniae sp. nov. and Hippea alviniae sp. nov., thermoacidophilic members of the class Deltaproteobacteria isolated from deep-sea hydrothermal vent deposits. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1252-1258.	0.8	23
28	Genome-Wide Survey of Pseudomonas aeruginosa PA14 Reveals a Role for the Glyoxylate Pathway and Extracellular Proteases in the Utilization of Mucin. Infection and Immunity, 2017, 85, .	1.0	22
29	Tissue remodeling by an opportunistic pathogen triggers allergic inflammation. Immunity, 2022, 55, 895-911.e10.	6.6	19
30	A putative enoyl-CoA hydratase contributes to biofilm formation and the antibiotic tolerance of Achromobacter xylosoxidans. Npj Biofilms and Microbiomes, 2019, 5, 20.	2.9	18
31	Stochasticity in the enterococcal sex pheromone response revealed by quantitative analysis of transcription in single cells. PLoS Genetics, 2017, 13, e1006878.	1.5	18
32	Natural rodent model of viral transmission reveals biological features of virus population dynamics. Journal of Experimental Medicine, 2022, 219, .	4.2	18
33	Respiratory Influenza Virus Infection Causes Dynamic Tuft Cell and Innate Lymphoid Cell Changes in the Small Intestine. Journal of Virology, 2022, 96, e0035222.	1.5	16
34	Refinement of metabolite detection in cystic fibrosis sputum reveals heme correlates with lung function decline. PLoS ONE, 2019, 14, e0226578.	1.1	15
35	Contribution of Short Chain Fatty Acids to the Growth of Pseudomonas aeruginosa in Rhinosinusitis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 412.	1.8	15
36	Pulmonary aspiration of sinus secretions in patients with cystic fibrosis. International Forum of Allergy and Rhinology, 2018, 8, 385-388.	1.5	14

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37	The impact of Lactococcus lactis (probiotic nasal rinse) coâ€culture on growth of patientâ€derived strains of Pseudomonas aeruginosa. International Forum of Allergy and Rhinology, 2020, 10, 444-449.	1.5	14
38	Agmatine accumulation by Pseudomonas aeruginosa clinical isolates confers antibiotic tolerance and dampens host inflammation. Journal of Medical Microbiology, 2019, 68, 446-455.	0.7	13
39	Anaerobic Microbiota Derived from the Upper Airways Impact Staphylococcus aureus Physiology. Infection and Immunity, 2021, 89, e0015321.	1.0	12
40	Impact of growth environment and physiological state on metal immobilization byPseudomonas aeruginosaPAO1. Canadian Journal of Microbiology, 2010, 56, 527-538.	0.8	11
41	Diversity of cystic fibrosis chronic rhinosinusitis microbiota correlates with different pathogen dominance. Journal of Cystic Fibrosis, 2021, 20, 678-681.	0.3	9
42	Complete Genome Sequence of Achromobacter xylosoxidans MN001, a Cystic Fibrosis Airway Isolate. Genome Announcements, 2015, 3, .	0.8	8
43	Generation of ¹³C-Labeled MUC5AC Mucin Oligosaccharides for Stable Isotope Probing of Host-Associated Microbial Communities. ACS Infectious Diseases, 2019, 5, 385-393.	1.8	8
44	Staphylococcus aureus Overcomes Anaerobe-Derived Short-Chain Fatty Acid Stress via FadX and the CodY Regulon. Journal of Bacteriology, 2022, 204, e0006422.	1.0	8
45	BAL Fluid Metaproteome in Acute Respiratory Failure. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 648-652.	1.4	6
46	JMM Profile: Achromobacter xylosoxidans: the cloak-and-dagger opportunist. Journal of Medical Microbiology, 2022, 71, .	0.7	6
47	Risk factors for neoâ€osteogenesis in cystic fibrosis and nonâ€'cystic fibrosis chronic rhinosinusitis. International Forum of Allergy and Rhinology, 2020, 10, 505-510.	1.5	5
48	Homogenization of Pseudomonas aeruginosa PAO1 biofilms visualized by freezeâ€substitution electron microscopy. Biotechnology and Bioengineering, 2013, 110, 1405-1418.	1.7	4
49	Mechanism of bacteria inactivation by an atmospheric pressure plasma jet. , 2016, , .		1
50	Draft Genome Sequence of Scheffersomyces spartinae ARV011, a Marine Yeast Isolate. Microbiology Resource Announcements, 2021, 10, e0065221.	0.3	1
51	Biofilms, Minerals, and Bronchioles: Understanding Microenvironments Through Correlative Microscopy. Microscopy and Microanalysis, 2009, 15, 68-69.	0.2	0
52	Spatial Distribution of Respiratory Metabolisms in Lab-Grown and in vivo Pseudomonas aeruginosa Biofilms.. Microscopy and Microanalysis, 2014, 20, 1188-1189.	0.2	0
53	Development of a Chronic Wound Healing Device1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	0
54	Hostâ€"Microbe Interactions: Wallowing in Mucus Mire. Current Biology, 2021, 31, R85-R88.	1.8	0

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55	A NOVEL AIRWAY STENT COATING TO REDUCE MUCOUS IMPACTION. Chest, 2021, 160, A55.	0.4	0
56	Treatment of Biofilms by Atmospheric Pressure RF Plasma Jets: Touching and Remote *. , 2021, , .		0