

Xuesong He

List of Publications by Year in descending order

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64
papers

3,681
citations

172457

29
h-index

144013

57
g-index

67
all docs

67
docs citations

67
times ranked

5034
citing authors

#	ARTICLE	IF	CITATIONS
1	Interspecies Interactions within Oral Microbial Communities. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 653-670.	6.6	461
2	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 244-249.	7.1	405
3	Ecology of the Oral Microbiome: Beyond Bacteria. <i>Trends in Microbiology</i> , 2017, 25, 362-374.	7.7	222
4	Influenza Virus Affects Intestinal Microbiota and Secondary Salmonella Infection in the Gut through Type I Interferons. <i>PLoS Pathogens</i> , 2016, 12, e1005572.	4.7	213
5	Acquisition and Adaptation of Ultra-small Parasitic Reduced Genome Bacteria to Mammalian Hosts. <i>Cell Reports</i> , 2020, 32, 107939.	6.4	152
6	Precision-guided antimicrobial peptide as a targeted modulator of human microbial ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7569-7574.	7.1	135
7	Quorum Sensing in <i>Rhizobium</i> sp. Strain NGR234 Regulates Conjugal Transfer (<i>tra</i>) Gene Expression and Influences Growth Rate. <i>Journal of Bacteriology</i> , 2003, 185, 809-822.	2.2	119
8	Mapping the Tail Fiber as the Receptor Binding Protein Responsible for Differential Host Specificity of <i>Pseudomonas aeruginosa</i> Bacteriophages PaP1 and JG004. <i>PLoS ONE</i> , 2013, 8, e68562.	2.5	118
9	An in vitro biofilm model system maintaining a highly reproducible species and metabolic diversity approaching that of the human oral microbiome. <i>Microbiome</i> , 2013, 1, 25.	11.1	106
10	Development of a Bacteriophage Cocktail to Constrain the Emergence of Phage-Resistant <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 327.	3.5	92
11	Chromosomal DNA deletion confers phage resistance to <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2014, 4, 4738.	3.3	84
12	The social structure of microbial community involved in colonization resistance. <i>ISME Journal</i> , 2014, 8, 564-574.	9.8	83
13	Phenotypic and Physiological Characterization of the Epibiotic Interaction Between TM7x and Its Basibiont <i>Actinomyces</i> . <i>Microbial Ecology</i> , 2016, 71, 243-255.	2.8	68
14	The well-coordinated linkage between acidogenicity and aciduricity via insoluble glucans on the surface of <i>Streptococcus mutans</i> . <i>Scientific Reports</i> , 2016, 5, 18015.	3.3	64
15	Meta-omics uncover temporal regulation of pathways across oral microbiome genera during <i>in vitro</i> sugar metabolism. <i>ISME Journal</i> , 2015, 9, 2605-2619.	9.8	63
16	Rapid evolution of decreased host susceptibility drives a stable relationship between ultrasmall parasite TM7x and its bacterial host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12277-12282.	7.1	59
17	DNA Builds and Strengthens the Extracellular Matrix in <i>Myxococcus xanthus</i> Biofilms by Interacting with Exopolysaccharides. <i>PLoS ONE</i> , 2012, 7, e51905.	2.5	57
18	Intercellular communications in multispecies oral microbial communities. <i>Frontiers in Microbiology</i> , 2014, 5, 328.	3.5	56

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19	Characterization of <i>aid1</i> , a Novel Gene Involved in <i>Fusobacterium nucleatum</i> Interspecies Interactions. <i>Microbial Ecology</i> , 2014, 68, 379-387.	2.8	53
20	Morphological and physiological changes induced by contact-dependent interaction between <i>Candida albicans</i> and <i>Fusobacterium nucleatum</i> . <i>Scientific Reports</i> , 2016, 6, 27956.	3.3	53
21	Tongue Coating and the Salivary Microbial Communities Vary in Children with Halitosis. <i>Scientific Reports</i> , 2016, 6, 24481.	3.3	51
22	<i>Pseudomonas aeruginosa</i> MutL promotes large chromosomal deletions through non-homologous end joining to prevent bacteriophage predation. <i>Nucleic Acids Research</i> , 2018, 46, 4505-4514.	14.5	47
23	Molecular Characterization of the Microbial Flora Residing at the Apical Portion of Infected Root Canals of Human Teeth. <i>Journal of Endodontics</i> , 2011, 37, 1359-1364.	3.1	46
24	The Denture-Associated Oral Microbiome in Health and Stomatitis. <i>MSphere</i> , 2016, 1, .	2.9	44
25	Adherence to Streptococci Facilitates <i>Fusobacterium nucleatum</i> Integration into an Oral Microbial Community. <i>Microbial Ecology</i> , 2012, 63, 532-542.	2.8	43
26	<i>Streptococcus mutans</i> SpaP binds to RadD of <i>Fusobacterium nucleatum</i> ssp. <i>polymorphum</i> . <i>Molecular Oral Microbiology</i> , 2017, 32, 355-364.	2.7	42
27	Oral Microbiome Shifts From Caries-Free to Caries-Affected Status in 3-Year-Old Chinese Children: A Longitudinal Study. <i>Frontiers in Microbiology</i> , 2018, 9, 2009.	3.5	42
28	Investigating Acid Production by <i>Streptococcus mutans</i> with a Surface-Displayed pH-Sensitive Green Fluorescent Protein. <i>PLoS ONE</i> , 2013, 8, e57182.	2.5	42
29	Episymbiotic <i>Saccharibacteria</i> suppresses gingival inflammation and bone loss in mice through host bacterial modulation. <i>Cell Host and Microbe</i> , 2021, 29, 1649-1662.e7.	11.0	39
30	The <i>cia</i> operon of <i>Streptococcus mutans</i> encodes a unique component required for calcium-mediated autoregulation. <i>Molecular Microbiology</i> , 2008, 70, 112-126.	2.5	37
31	The <i>saccharibacterium</i> TM7x elicits differential responses across its host range. <i>ISME Journal</i> , 2020, 14, 3054-3067.	9.8	35
32	Uncovering complex microbiome activities via metatranscriptomics during 24 hours of oral biofilm assembly and maturation. <i>Microbiome</i> , 2018, 6, 217.	11.1	34
33	Transcriptomic and Metabolomics Profiling of Phage-Host Interactions between Phage PaP1 and <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 548.	3.5	33
34	Draft Genome Sequence of <i>Actinomyces odontolyticus</i> subsp. <i>actinosynbacter</i> Strain XH001, the Basibiont of an Oral TM7 Epibiont. <i>Genome Announcements</i> , 2016, 4, .	0.8	32
35	Quorum Sensing Modulates the Epibiotic-Parasitic Relationship Between <i>Actinomyces odontolyticus</i> and Its <i>Saccharibacteria</i> epibiont, a <i>Nanosynbacter lyticus</i> Strain, TM7x. <i>Frontiers in Microbiology</i> , 2018, 9, 2049.	3.5	32
36	pH-Sensitive Compounds for Selective Inhibition of Acid-Producing Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8566-8573.	8.0	31

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37	Metabolic Fingerprints from the Human Oral Microbiome Reveal a Vast Knowledge Gap of Secreted Small Peptidic Molecules. <i>MSystems</i> , 2017, 2, .	3.8	30
38	<i>Klebsiella</i> and <i>Providencia</i> emerge as lone survivors following long-term starvation of oral microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8499-8504.	7.1	30
39	Acquisition of the arginine deiminase system benefits epiparasitic <i>Saccharibacteria</i> and their host bacteria in a mammalian niche environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	30
40	Oral-Derived Bacterial Flora Defends Its Domain by Recognizing and Killing Intruders—A Molecular Analysis Using <i>Escherichia coli</i> as a Model Intestinal Bacterium. <i>Microbial Ecology</i> , 2010, 60, 655-664.	2.8	29
41	The Influence of Iron Availability on Human Salivary Microbial Community Composition. <i>Microbial Ecology</i> , 2012, 64, 152-161.	2.8	28
42	Direct visualization of the interaction between pilin and exopolysaccharides of <i>Myxococcus xanthus</i> with eGFP-fused PilA protein. <i>FEMS Microbiology Letters</i> , 2012, 326, 23-30.	1.8	21
43	Natural Transformation of <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 2011, 193, 2122-2132.	2.2	20
44	Killing of <i>Escherichia coli</i> by <i>Myxococcus xanthus</i> in Aqueous Environments Requires Exopolysaccharide-Dependent Physical Contact. <i>Microbial Ecology</i> , 2013, 66, 630-638.	2.8	20
45	A Linear Plasmid-Like Prophage of <i>Actinomyces odontolyticus</i> Promotes Biofilm Assembly. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	20
46	Lollipop containing <i>Glycyrrhiza uralensis</i> extract reduces <i>Streptococcus mutans</i> colonization and maintains oral microbial diversity in Chinese preschool children. <i>PLoS ONE</i> , 2019, 14, e0221756.	2.5	19
47	In Vitro Communities Derived from Oral and Gut Microbial Floras Inhibit the Growth of Bacteria of Foreign Origins. <i>Microbial Ecology</i> , 2010, 60, 665-676.	2.8	18
48	Investigating Oral Microbiome Profiles in Children with Cleft Lip and Palate for Prognosis of Alveolar Bone Grafting. <i>PLoS ONE</i> , 2016, 11, e0155683.	2.5	14
49	Modified SHI medium supports growth of a disease-state subgingival polymicrobial community in vitro. <i>Molecular Oral Microbiology</i> , 2021, 36, 37-49.	2.7	11
50	Oral Microbiome: <i>Streptococcus mutans</i> /Caries Concordant-Discordant Children. <i>Frontiers in Microbiology</i> , 2022, 13, 782825.	3.5	11
51	The <i>clpB</i> gene is involved in the stress response of <i>Myxococcus xanthus</i> during vegetative growth and development. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2336-2343.	1.8	10
52	Development of In Vitro Denture Biofilm Models for Halitosis Related Bacteria and their Application in Testing the Efficacy of Antimicrobial Agents. <i>Open Dentistry Journal</i> , 2015, 9, 125-131.	0.5	9
53	Interspecies Interactions Between <i>Streptococcus mutans</i> and <i>Streptococcus Agalactiae</i> in vitro. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 344.	3.9	7
54	Strain-Level Variation and Diverse Host Bacterial Responses in Episymbiotic <i>Saccharibacteria</i> . <i>MSystems</i> , 2022, 7, e0148821.	3.8	6

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55	Complete Genome Sequence of Strain BB001, a Novel Epibiont Bacterium from the Candidate Phylum Saccharibacteria (TM7). <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	4
56	Oral colonization of <i>Candida albicans</i> and <i>Streptococcus mutans</i> in children with or without fixed orthodontic appliances: A pilot study. <i>Journal of Dental Sciences</i> , 2022, 17, 451-458.	2.5	4
57	Independent Acquisition and Adaptation of Ultra-Small Bacteria with Reduced Genomes from the Phylum Saccharibacteria to Human Hosts. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
58	Effectiveness of the GumChucks flossing system compared to string floss for interdental plaque removal in children: a randomized clinical trial. <i>Scientific Reports</i> , 2020, 10, 3052.	3.3	3
59	Oral Microbiota Composition and Function Changes During Chronic Erythematous Candidiasis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 691092.	3.9	3
60	Managing Denture Biofilm Related Diseases. <i>Dentistry - Open Journal</i> , 2015, 2, 80-86.	0.2	3
61	Promoter-probe cassettes with the <i>gusA</i> (β -glucuronidase) reporter gene and several different antibiotic resistance markers. <i>Journal of Microbiological Methods</i> , 2005, 60, 281-283.	1.6	2
62	Differences in Sole Carbon Source Utilization of the Dental Plaque Microbiota Between Caries-Free and Caries-Affected Children. <i>Frontiers in Microbiology</i> , 2020, 11, 458.	3.5	2
63	Pilot study on selective antimicrobial effect of a halitosis mouthrinse: monospecies and saliva-derived microbiome in an in vitro model system. <i>Journal of Oral Microbiology</i> , 2021, 13, 1996755.	2.7	2
64	High-Quality Draft Genome Sequence of Low-pH-Active <i>Veillonella parvula</i> Strain SHI-1, Isolated from Human Saliva within an In Vitro Oral Biofilm Model. <i>Genome Announcements</i> , 2016, 4, .	0.8	1