

# Rui Zhou

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

1,112

citations

19

h-index

27

g-index

98

ext. papers

1,659

ext. citations

4.9

avg, IF

4.28

L-index

#	Paper	IF	Citations
88	A temperate bacteriophage isolate from Siberian tiger enhances the virulence of methicillin-resistant through distinct mechanisms.. <i>Virulence</i> , <b>2022</b> , 13, 137-148	4.7	1
87	Green tea polyphenols inhibit growth, pathogenicity and metabolomics profiles of <i>Streptococcus suis</i> .. <i>Microbial Pathogenesis</i> , <b>2022</b> , 164, 105421	3.8	1
86	The Rcs System Contributes to the Motility Defects of the Twin-Arginine Translocation System Mutant of Extraintestinal Pathogenic <i>Escherichia coli</i> .. <i>Journal of Bacteriology</i> , <b>2022</b> , e0061221	3.5	0
85	An Engineered Outer Membrane Defective Secreting Protective Antigens against through the Twin-Arginine Translocation Pathway as a Vaccine.. <i>Journal of Microbiology and Biotechnology</i> , <b>2022</b> , 32, 1-8	3.3	
84	Porcine $\beta$ -defensin 2 confers enhanced resistance to swine flu infection in transgenic pigs and alleviates swine influenza virus-induced apoptosis possibly through interacting with host SLC25A4.. <i>Antiviral Research</i> , <b>2022</b> , 201, 105292	10.8	
83	Screening for Virulence-Related Genes via a Transposon Mutant Library of <i>Streptococcus suis</i> Serotype 2 Using a <i>Galleria mellonella</i> Larvae Infection Model. <i>Microorganisms</i> , <b>2022</b> , 10, 868	4.9	
82	Identification of FtpA, a Dps-like protein involved in anti-oxidative stress and virulence in. <i>Journal of Bacteriology</i> , <b>2021</b> , JB0032621	3.5	1
81	P38 MAPK pathway regulates the expression of resistin in porcine alveolar macrophages via Ets2 during <i>Haemophilus parasuis</i> stimulation. <i>Developmental and Comparative Immunology</i> , <b>2021</b> , 104327	3.2	1
80	<i>Streptococcus suis</i> MsmK: Novel Cell Division Protein Interacting with FtsZ and Maintaining Cell Shape. <i>MSphere</i> , <b>2021</b> , 6,	5	2
79	The global emergence of a novel <i>Streptococcus suis</i> clade associated with human infections. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13810	12	10
78	Protein-protein interaction network and potential drug target candidates of <i>Streptococcus suis</i> . <i>Journal of Applied Microbiology</i> , <b>2021</b> , 131, 658-670	4.7	2
77	Antimicrobial resistance phenotypes and genotypes of <i>Streptococcus suis</i> isolated from clinically healthy pigs from 2017 to 2019 in Jiangxi Province, China. <i>Journal of Applied Microbiology</i> , <b>2021</b> , 130, 797-806	4.7	10
76	Large-scale genomic analysis of antimicrobial resistance in the zoonotic pathogen <i>Streptococcus suis</i> . <i>BMC Biology</i> , <b>2021</b> , 19, 191	7.3	6
75	A Survey of Chinese Pig Farms and Human Healthcare Isolates Reveals Separate Human and Animal Methicillin-Resistant <i>Staphylococcus aureus</i> Populations. <i>Advanced Science</i> , <b>2021</b> , e2103388	13.6	2
74	Proteomic and Metabolomic Analyses Provide Insights into the Mechanism on Arginine Metabolism Regulated by tRNA Modification Enzymes GidA and MnmE of. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 597408	5.9	3
73	Detection of Viable and Total Bacterial Community in the Pit Mud of Chinese Strong-Flavor Liquor Using Propidium Monoazide Combined With Quantitative PCR and 16S rRNA Gene Sequencing. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 896	5.7	4
72	Porcine $\beta$ -defensin 2 inhibits proliferation of pseudorabies virus in vitro and in transgenic mice. <i>Virology Journal</i> , <b>2020</b> , 17, 18	6.1	10

71	Mycoplasma hyopneumoniae Inhibits Porcine Beta-Defensin 2 Production by Blocking the Unfolded Protein Response To Facilitate Epithelial Adhesion and Infection. <i>Infection and Immunity</i> , <b>2020</b> , 88,	3.7	3
70	Identification of genes regulated by the two-component system response regulator NarP of Actinobacillus pleuropneumoniae via DNA-affinity-purified sequencing. <i>Microbiological Research</i> , <b>2020</b> , 230, 126343	5.3	6
69	COX-2 mediated crosstalk between Wnt/ $\beta$ -catenin and the NF- $\kappa$ B signaling pathway during inflammatory responses induced by Haemophilus parasuis in PK-15 and NPTr cells. <i>Developmental and Comparative Immunology</i> , <b>2020</b> , 105, 103588	3.2	7
68	Regulation of (p)ppGpp and Its Homologs on Environmental Adaptation, Survival, and Pathogenicity of Streptococci. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1842	5.7	0
67	Dissemination of antibiotic resistance genes (ARGs) via integrons in Escherichia coli: A risk to human health. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115260	9.3	29
66	Complement C3aR/C5aR-binding protein SuiIysin of Streptococcus suis contributes to monocyte chemotaxis. <i>Veterinary Microbiology</i> , <b>2020</b> , 242, 108599	3.3	1
65	The Tat system and its dependent cell division proteins are critical for virulence of extra-intestinal pathogenic. <i>Virulence</i> , <b>2020</b> , 11, 1279-1292	4.7	1
64	P38 mitogen-activated protein kinase promotes Wnt/ $\beta$ -catenin signaling by impeding Dickkopf-1 expression during Haemophilus parasuis infection. <i>Cytokine</i> , <b>2020</b> , 136, 155287	4	2
63	Generation of Marker-Free Knock-in Pigs Using the CRISPR/Cas9 and Cre/loxP Systems. <i>Genes</i> , <b>2020</b> , 11,	4.2	9
62	Pigs Overexpressing Porcine $\beta$ -Defensin 2 Display Increased Resilience to Infection. <i>Antibiotics</i> , <b>2020</b> , 9,	4.9	2
61	Emergence of Escherichia coli isolates producing NDM-1 carbapenemase from waterfowls in Hainan island, China. <i>Acta Tropica</i> , <b>2020</b> , 207, 105485	3.2	1
60	Pasteurella multocida: Genotypes and Genomics. <i>Microbiology and Molecular Biology Reviews</i> , <b>2019</b> , 83,	13.2	34
59	Characterization of serotypes and virulence genes of Haemophilus parasuis isolates from Central Vietnam. <i>Veterinary Microbiology</i> , <b>2019</b> , 230, 117-122	3.3	4
58	An NLRP3 inflammasome-triggered cytokine storm contributes to Streptococcal toxic shock-like syndrome (STSLs). <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007795	7.6	52
57	MnmE, a Central tRNA-Modifying GTPase, Is Essential for the Growth, Pathogenicity, and Arginine Metabolism of Serotype 2. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 173	5.9	7
56	Co-regulation of CodY and (p)ppGpp synthetases on morphology and pathogenesis of Streptococcus suis. <i>Microbiological Research</i> , <b>2019</b> , 223-225, 88-98	5.3	6
55	Porcine Beta-Defensin 2 Provides Protection Against Bacterial Infection by a Direct Bactericidal Activity and Alleviates Inflammation via Interference With the TLR4/NF- $\kappa$ B Pathway. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1673	8.4	21
54	Recent Proceedings on Prevalence and Pathogenesis of. <i>Current Issues in Molecular Biology</i> , <b>2019</b> , 32, 473-520	2.9	6

53	Truncation of GdpP mediates $\beta$ -lactam resistance in clinical isolates of <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 1182-1191	5.1	20
52	A Novel Adjuvant "Sublancin" Enhances Immune Response in Specific Pathogen-Free Broiler Chickens Inoculated with Newcastle Disease Vaccine. <i>Journal of Immunology Research</i> , <b>2019</b> , 2019, 1016567	4.5	4
51	The roles of flp1 and tadD in <i>Actinobacillus pleuropneumoniae</i> pilus biosynthesis and pathogenicity. <i>Microbial Pathogenesis</i> , <b>2019</b> , 126, 310-317	3.8	3
50	Effects of Environmental and Management-Associated Factors on Prevalence and Diversity of <i>Streptococcus suis</i> in Clinically Healthy Pig Herds in China and the United Kingdom. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	15
49	Prevalence, quantification and isolation of pathogenic shiga toxin <i>Escherichia coli</i> O157:H7 along the production and supply chain of pork around Hubei Province of China. <i>Microbial Pathogenesis</i> , <b>2018</b> , 115, 93-99	3.8	6
48	Functional characterization of murB-potABCD operon for polyamine uptake and peptidoglycan synthesis in <i>Streptococcus suis</i> . <i>Microbiological Research</i> , <b>2018</b> , 207, 177-187	5.3	16
47	Identification of drug target candidates of the swine pathogen <i>Actinobacillus pleuropneumoniae</i> by construction of protein-protein interaction network. <i>Genes and Genomics</i> , <b>2018</b> , 40, 847-856	2.1	5
46	The Surface-Exposed Protein SntA Contributes to Complement Evasion in Zoonotic. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1063	8.4	9
45	Genetic and Phylogenetic Characteristics of Isolates From Different Host Species. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1408	5.7	21
44	<i>Haemophilus parasuis</i> infection activates NOD1/2-RIP2 signaling pathway in PK-15 cells. <i>Developmental and Comparative Immunology</i> , <b>2018</b> , 79, 158-165	3.2	9
43	Infection Disrupts Adherens Junctions and Initializes EMT Dependent on Canonical Wnt/ $\beta$ -Catenin Signaling Pathway. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 324	5.9	17
42	Phylogenetic grouping and distribution of virulence genes in <i>Escherichia coli</i> along the production and supply chain of pork around Hubei, China. <i>Journal of Microbiology, Immunology and Infection</i> , <b>2017</b> , 50, 382-385	8.5	5
41	The involvement of MsmK in pathogenesis of the <i>Streptococcus suis</i> serotype 2. <i>MicrobiologyOpen</i> , <b>2017</b> , 6, e00433	3.4	13
40	Phenotypic and Genotypic Resistance of <i>Salmonella</i> Isolates from Healthy and Diseased Pigs in China During 2008-2015. <i>Microbial Drug Resistance</i> , <b>2017</b> , 23, 651-659	2.9	15
39	Characterization of a novel streptococcal heme-binding protein SntA and its interaction with host antioxidant protein AOP2. <i>Microbial Pathogenesis</i> , <b>2017</b> , 111, 145-155	3.8	7
38	Structural and developmental expression of Ss-riok-2, an RIO protein kinase encoding gene of <i>Strongyloides stercoralis</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 8693	4.9	4
37	Functional genomic exploration reveals that Ss-RIOK-1 is essential for the development and survival of <i>Strongyloides stercoralis</i> larvae. <i>International Journal for Parasitology</i> , <b>2017</b> , 47, 933-940	4.3	3
36	The Eukaryote-Like Serine/Threonine Kinase STK Regulates the Growth and Metabolism of Zoonotic. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2017</b> , 7, 66	5.9	17

35	Naturally nano: synthesis of versatile bio-inspired monodisperse microspheres from <i>Bacillus</i> spores and their applications. <i>Green Chemistry</i> , <b>2016</b> , 18, 186-196	10	19
34	Structure-based discovery of two antiviral inhibitors targeting the NS3 helicase of Japanese encephalitis virus. <i>Scientific Reports</i> , <b>2016</b> , 6, 34550	4.9	13
33	Characterization of IgA1 protease as a surface protective antigen of <i>Streptococcus suis</i> serotype 2. <i>Microbes and Infection</i> , <b>2016</b> , 18, 285-9	9.3	10
32	Molecular characterization of the <i>Haemonchus contortus</i> phosphoinositide-dependent protein kinase-1 gene (Hc-pdk-1). <i>Parasites and Vectors</i> , <b>2016</b> , 9, 65	4	9
31	Effects of the <i>Fusarium</i> toxin zearalenone and/or deoxynivalenol on the serum IL-1, IL-4, and C3 levels in mice. H. Ren and Y. T. Deng contributed equally to this work and should be considered co-first authors. View all notes. <i>Food and Agricultural Immunology</i> , <b>2016</b> , 27, 414-421	2.9	3
30	Genomic characterization of <i>Pasteurella multocida</i> HB01, a serotype A bovine isolate from China. <i>Gene</i> , <b>2016</b> , 581, 85-93	3.8	18
29	A Transcriptome Map of <i>Actinobacillus pleuropneumoniae</i> at Single-Nucleotide Resolution Using Deep RNA-Seq. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152363	3.7	3
28	SIRT1 suppresses adipogenesis by activating Wnt/ $\beta$ -catenin signaling in vivo and in vitro. <i>Oncotarget</i> , <b>2016</b> , 7, 77707-77720	3.3	52
27	GidA, a tRNA Modification Enzyme, Contributes to the Growth, and Virulence of <i>Streptococcus suis</i> Serotype 2. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2016</b> , 6, 44	5.9	21
26	Induction of systemic IFITM3 expression does not effectively control foot-and-mouth disease viral infection in transgenic pigs. <i>Veterinary Microbiology</i> , <b>2016</b> , 191, 20-6	3.3	3
25	The roles of RelA/(p)ppGpp in glucose-starvation induced adaptive response in the zoonotic <i>Streptococcus suis</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 27169	4.9	14
24	(p)ppGpp synthetases regulate the pathogenesis of zoonotic <i>Streptococcus suis</i> . <i>Microbiological Research</i> , <b>2016</b> , 191, 1-11	5.3	14
23	<i>Haemophilus parasuis</i> induces activation of NF- $\kappa$ B and MAP kinase signaling pathways mediated by toll-like receptors. <i>Molecular Immunology</i> , <b>2015</b> , 65, 360-6	4.3	29
22	Overexpression of Porcine Beta-Defensin 2 Enhances Resistance to <i>Actinobacillus pleuropneumoniae</i> Infection in Pigs. <i>Infection and Immunity</i> , <b>2015</b> , 83, 2836-43	3.7	23
21	<i>Haemophilus parasuis</i> infection activates chemokine RANTES in PK-15 cells. <i>Molecular Immunology</i> , <b>2015</b> , 67, 661-6	4.3	12
20	The Cipher Code of Simple Sequence Repeats in "Vampire Pathogens". <i>Scientific Reports</i> , <b>2015</b> , 5, 12441	4.9	
19	Targeting TREM-1 Signaling in the Presence of Antibiotics is Effective Against Streptococcal Toxic-Shock-Like Syndrome (STSL) Caused by <i>Streptococcus suis</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2015</b> , 5, 79	5.9	14
18	MsmK, an ATPase, Contributes to Utilization of Multiple Carbohydrates and Host Colonization of <i>Streptococcus suis</i> . <i>PLoS ONE</i> , <b>2015</b> , 10, e0130792	3.7	14

17	Catecholamines promote <i>Actinobacillus pleuropneumoniae</i> growth by regulating iron metabolism. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121887	3.7	12
16	Changes in gene expression of <i>Actinobacillus pleuropneumoniae</i> in response to anaerobic stress reveal induction of central metabolism and biofilm formation. <i>Journal of Microbiology</i> , <b>2014</b> , 52, 473-81	3	16
15	Hc-daf-2 encodes an insulin-like receptor kinase in the barber's pole worm, <i>Haemonchus contortus</i> , and restores partial dauer regulation. <i>International Journal for Parasitology</i> , <b>2014</b> , 44, 485-96	4.3	22
14	Exploring the role of two interacting phosphoinositide 3-kinases of <i>Haemonchus contortus</i> . <i>Parasites and Vectors</i> , <b>2014</b> , 7, 498	4	12
13	TolC promotes ExPEC biofilm formation and curli production in response to medium osmolarity. <i>BioMed Research International</i> , <b>2014</b> , 2014, 574274	3	18
12	Effects of the <i>Fusarium</i> toxin zearalenone (ZEA) and/or deoxynivalenol (DON) on the serum IgA, IgG and IgM levels in mice. <i>Food and Agricultural Immunology</i> , <b>2014</b> , 25, 600-606	2.9	11
11	A novel fibronectin-binding protein of <i>Streptococcus suis</i> serotype 2 contributes to epithelial cell invasion and in vivo dissemination. <i>Veterinary Microbiology</i> , <b>2013</b> , 162, 186-94	3.3	31
10	Adhesion protein ApfA of <i>Actinobacillus pleuropneumoniae</i> is required for pathogenesis and is a potential target for vaccine development. <i>Vaccine Journal</i> , <b>2013</b> , 20, 287-94		18
9	Identification of three antiviral inhibitors against Japanese encephalitis virus from library of pharmacologically active compounds 1280. <i>PLoS ONE</i> , <b>2013</b> , 8, e78425	3.7	34
8	Magnetic beads-based enzymatic spectrofluorometric assay for rapid and sensitive detection of antibody against ApxIVA of <i>Actinobacillus pleuropneumoniae</i> . <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 35, 390-393	11.8	22
7	A Fur-like protein PerR regulates two oxidative stress response related operons dpr and metQIN in <i>Streptococcus suis</i> . <i>BMC Microbiology</i> , <b>2012</b> , 12, 85	4.5	41
6	In silico identification of potential drug targets in swine pathogen <i>Haemophilus parasuis</i> . <i>Genes and Genomics</i> , <b>2012</b> , 34, 223-230	2.1	
5	Antimicrobial resistances of extraintestinal pathogenic <i>Escherichia coli</i> isolates from swine in China. <i>Microbial Pathogenesis</i> , <b>2011</b> , 50, 207-12	3.8	26
4	Induction of protective immune response against <i>Streptococcus suis</i> serotype 2 infection by the surface antigen HP0245. <i>FEMS Microbiology Letters</i> , <b>2011</b> , 316, 115-22	2.9	17
3	Identification of <i>Streptococcus suis</i> serotype 2 genes preferentially expressed in the natural host. <i>International Journal of Medical Microbiology</i> , <b>2010</b> , 300, 482-8	3.7	29
2	Identification of <i>Streptococcus suis</i> genes preferentially expressed under iron starvation by selective capture of transcribed sequences. <i>FEMS Microbiology Letters</i> , <b>2009</b> , 292, 123-33	2.9	41
1	Genome biology of <i>Actinobacillus pleuropneumoniae</i> JL03, an isolate of serotype 3 prevalent in China. <i>PLoS ONE</i> , <b>2008</b> , 3, e1450	3.7	56