

Liancheng Lei

List of Publications by Year in descending order

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93
papers

2,724
citations

201674

27
h-index

214800

47
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96
all docs

96
docs citations

96
times ranked

2818
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulated lytic cell death in breast cancer. <i>Cell Biology International</i> , 2022, 46, 12-33.	3.0	9
2	Rapid and sensitive detection of <i>Staphylococcus aureus</i> using bilayer interferometry technology combined with phage lysin LysGH15. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113799.	10.1	10
3	A novel lysin Ply1228 provides efficient protection against <i>Streptococcus suis</i> type 2 infection in a murine bacteremia model. <i>Veterinary Microbiology</i> , 2022, 268, 109425.	1.9	2
4	IL-5 enhances the resistance of <i>Actinobacillus pleuropneumoniae</i> infection in mice through maintaining appropriate levels of lung M2, PMN-II and highly effective neutrophil extracellular traps. <i>Veterinary Microbiology</i> , 2022, 269, 109438.	1.9	2
5	Host HSPD1 Translocation from Mitochondria to the Cytoplasm Induced by <i>Streptococcus suis</i> Serovar 2 Enolase Mediates Apoptosis and Loss of Blood-Brain Barrier Integrity. <i>Cells</i> , 2022, 11, 2071.	4.1	4
6	RPSA distribution and expression in tissues and immune cells of pathogen-infected mice. <i>Microbial Pathogenesis</i> , 2021, 152, 104609.	2.9	5
7	Deposition and mobilization of viruses in unsaturated porous media: Roles of different interfaces and straining. <i>Environmental Pollution</i> , 2021, 270, 116072.	7.5	17
8	<i>Streptococcus suis</i> serotype 2 enolase interaction with host brain microvascular endothelial cells and RPSA-induced apoptosis lead to loss of BBB integrity. <i>Veterinary Research</i> , 2021, 52, 30.	3.0	12
9	Caveolae/rafts protect human cerebral microvascular endothelial cells from <i>Streptococcus suis</i> serotype 2 $\hat{\pm}$ -enolase-mediated injury. <i>Veterinary Microbiology</i> , 2021, 254, 108981.	1.9	5
10	Proposal of <i>Actinobacillus pleuropneumoniae</i> serovar 19, and reformulation of previous multiplex PCRs for capsule-specific typing of all known serovars. <i>Veterinary Microbiology</i> , 2021, 255, 109021.	1.9	62
11	Combination Therapy of Phage vB_KpnM_P-KP2 and Gentamicin Combats Acute Pneumonia Caused by K47 Serotype <i>Klebsiella pneumoniae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 674068.	3.5	24
12	IFN- $\hat{\gamma}$ ³ Mice Resist <i>Actinobacillus pleuropneumoniae</i> Infection by Promoting Early Lung IL-18 Release and PMN-I Accumulation. <i>Infection and Immunity</i> , 2021, 89, .	2.2	3
13	Molecular characterization of Toll-like receptor type-3 in mallard duck and its response to Newcastle disease virus infection. <i>Environmental Science and Pollution Research</i> , 2021, 28, 55786-55795.	5.3	1
14	Rapid Detection and Typing of <i>Actinobacillus pleuropneumoniae</i> Serovars Directly From Clinical Samples: Combining FTA $\hat{\text{A}}$ [®] Card Technology With Multiplex PCR. <i>Frontiers in Veterinary Science</i> , 2021, 8, 728660.	2.2	6
15	vB-ApyS-JF1, the First <i>Trueperella pyogenes</i> Phage, Shows Potential as an Alternative Treatment Strategy for <i>Trueperella pyogenes</i> Infections. <i>Frontiers in Microbiology</i> , 2021, 12, 736304.	3.5	3
16	Complete genome for <i>Actinobacillus pleuropneumoniae</i> serovar 8 reference strain 405: comparative analysis with draft genomes for different laboratory stock cultures indicates little genetic variation. <i>Microbial Genomics</i> , 2021, 7, .	2.0	1
17	Dynamic immune response characteristics of piglets infected with <i>Actinobacillus pleuropneumoniae</i> through omic. <i>AMB Express</i> , 2021, 11, 175.	3.0	1
18	Necroptosis and its role in infectious diseases. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2020, 25, 169-178.	4.9	50

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19	IFN- γ Activates the TLR4-CCL5 Signaling Through Reducing Arginine Level, Leading to Enhanced Susceptibility of Bovine Mammary Epithelial Cells to Staphylococcus aureus. <i>Inflammation</i> , 2020, 43, 2209-2221.	3.8	7
20	iTRAQ-based quantitative proteomic analysis of peripheral blood serum in piglets infected with <i>Actinobacillus pleuropneumoniae</i> . <i>AMB Express</i> , 2020, 10, 121.	3.0	3
21	The Phage Holin HolGH15 Exhibits Potential As an Antibacterial Agent to Control <i>Listeria monocytogenes</i> . <i>Foodborne Pathogens and Disease</i> , 2020, 18, 574-581.	1.8	10
22	Therapeutic Efficacy of Phage P_{IZ} SAE-01E2 against Abortion Caused by <i>Salmonella enterica</i> Serovar Abortusequi in Mice. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	9
23	Differences in pig respiratory tract and peripheral blood immune responses to <i>Actinobacillus pleuropneumoniae</i> . <i>Veterinary Microbiology</i> , 2020, 247, 108755.	1.9	9
24	The antimicrobial peptide MPX kills <i>Actinobacillus pleuropneumoniae</i> and reduces its pathogenicity in mice. <i>Veterinary Microbiology</i> , 2020, 243, 108634.	1.9	12
25	Therapeutic applications of lytic phages in human medicine. <i>Microbial Pathogenesis</i> , 2020, 142, 104048.	2.9	31
26	Ribosomal Protein SA-Positive Neutrophil Elicits Stronger Phagocytosis and Neutrophil Extracellular Trap Formation and Subdues Pro-Inflammatory Cytokine Secretion Against <i>Streptococcus suis</i> Serotype 2 Infection. <i>Frontiers in Immunology</i> , 2020, 11, 585399.	4.8	5
27	Proteomics analysis of important molecules in serum from meningitic piglets caused by <i>Streptococcus suis</i> serotype 2. <i>Journal of Infection in Developing Countries</i> , 2020, 14, 502-510.	1.2	3
28	Recombinant tandem epitope vaccination provides cross protection against <i>Actinobacillus pleuropneumoniae</i> challenge in mice. <i>AMB Express</i> , 2020, 10, 123.	3.0	1
29	External lysis of <i>Escherichia coli</i> by a bacteriophage endolysin modified with hydrophobic amino acids. <i>AMB Express</i> , 2019, 9, 106.	3.0	29
30	Exosomes Derived from Bovine Mammary Epithelial Cells Treated with Transforming Growth Factor- β 21 Inhibit the Proliferation of Bovine Macrophages. <i>Journal of Interferon and Cytokine Research</i> , 2019, 39, 752-759.	1.2	5
31	Autophagy elicits a novel and prospect strategy to starve arginine-dependent tumors. <i>Hepatobiliary Surgery and Nutrition</i> , 2019, 8, 401-403.	1.5	8
32	Biological properties and genomics analysis of vB_KpnS_GH-K3, a <i>Klebsiella</i> phage with a putative depolymerase-like protein. <i>Virus Genes</i> , 2019, 55, 696-706.	1.6	26
33	TGF- β 1 promoted the infection of bovine mammary epithelial cells by <i>Staphylococcus aureus</i> through increasing expression of cells' fibronectin and integrin β 1. <i>Veterinary Microbiology</i> , 2019, 237, 108420.	1.9	5
34	The role of pyroptosis in cancer: pro-cancer or pro- α ehost β ?. <i>Cell Death and Disease</i> , 2019, 10, 650.	6.3	556
35	Preventive effect of the phage VB-SavM-JYL01 on rabbit necrotizing pneumonia caused by <i>Staphylococcus aureus</i> . <i>Veterinary Microbiology</i> , 2019, 229, 72-80.	1.9	31
36	Three Capsular Polysaccharide Synthesis-Related Glucosyltransferases, GT-1, GT-2 and WcaJ, Are Associated With Virulence and Phage Sensitivity of <i>Klebsiella pneumoniae</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1189.	3.5	56

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37	Porcine circovirus type 2 promotes <i>Actinobacillus pleuropneumoniae</i> survival during coinfection of porcine alveolar macrophages by inhibiting ROS production. <i>Veterinary Microbiology</i> , 2019, 233, 93-101.	1.9	10
38	miR-31 shuttled by halofuginone-induced exosomes suppresses MFC cell proliferation by modulating the HDAC2/cell cycle signaling axis. <i>Journal of Cellular Physiology</i> , 2019, 234, 18970-18984.	4.1	20
39	The Characteristics and Genome Analysis of vB_AviM_AVP, the First Phage Infecting <i>Aerococcus viridans</i> . <i>Viruses</i> , 2019, 11, 104.	3.3	24
40	Mesoporous silica nanobeads dual-functionalized with AIEgens and leaning pillar[6]arene-based supramolecular switches for imaging and stimuli-responsive drug release. <i>Chemical Communications</i> , 2019, 55, 14099-14102.	4.1	36
41	Overexpression of AmpC Promotes Bacteriophage Lysis of Ampicillin-Resistant <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2973.	3.5	7
42	Transport of <i>Escherichia coli</i> phage through saturated porous media considering managed aquifer recharge. <i>Environmental Science and Pollution Research</i> , 2018, 25, 6497-6513.	5.3	14
43	Isolation and identification of <i>Salmonella pullorum</i> bacteriophage YSP2 and its use as a therapy for chicken diarrhea. <i>Virus Genes</i> , 2018, 54, 446-456.	1.6	25
44	A guard-killer phage cocktail effectively lyses the host and inhibits the development of phage-resistant strains of <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 971-983.	3.6	44
45	Characteristic Comparison of Meningitis and Non-meningitis of <i>Streptococcus suis</i> in an Experimentally Infected Porcine Model. <i>Inflammation</i> , 2018, 41, 368-377.	3.8	7
46	An Ointment Consisting of the Phage Lysin LysGH15 and Apigenin for Decolonization of Methicillin-Resistant <i>Staphylococcus aureus</i> from Skin Wounds. <i>Viruses</i> , 2018, 10, 244.	3.3	40
47	A Smooth-Type, Phage-Resistant <i>Klebsiella pneumoniae</i> Mutant Strain Reveals that OmpC Is Indispensable for Infection by Phage GH-K3. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	29
48	Antibacterial Effects of Phage Lysin LysGH15 on Planktonic Cells and Biofilms of Diverse <i>Staphylococci</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	34
49	Transcriptomic analysis of porcine PBMCs in response to <i>Actinobacillus pleuropneumoniae</i> reveals the dynamic changes of differentially expressed genes related to immuno-inflammatory responses. <i>Antonie Van Leeuwenhoek</i> , 2018, 111, 2371-2384.	1.7	3
50	Differential Protein Profiling of Cerebrospinal Fluid in Piglets with Severe Meningoencephalitis Caused by <i>Streptococcus suis</i> Type 2 Compared to Controls. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 35.	3.9	3
51	GCN2 controls the cellular checkpoint: potential target for regulating inflammation. <i>Cell Death Discovery</i> , 2018, 4, 20.	4.7	19
52	Arginine inhibits the malignant transformation induced by interferon-gamma through the NF- κ B-GCN2/eIF2 γ signaling pathway in mammary epithelial cells in vitro and in vivo. <i>Experimental Cell Research</i> , 2018, 368, 236-247.	2.6	14
53	TGF- β 1 promotes <i>Staphylococcus aureus</i> adhesion to and invasion into bovine mammary fibroblasts via the ERK pathway. <i>Microbial Pathogenesis</i> , 2017, 106, 25-29.	2.9	13
54	The antibacterial activity of <i>E. coli</i> bacteriophage lysin lysep3 is enhanced by fusing the <i>Bacillus amyloliquefaciens</i> bacteriophage endolysin binding domain D8 to the C-terminal region. <i>Journal of Microbiology</i> , 2017, 55, 403-408.	2.8	28

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55	B cell cross-epitope of <i>Propionibacterium acnes</i> and <i>Actinobacillus pleuropneumoniae</i> selected by phage display library can efficiently protect from <i>Actinobacillus pleuropneumoniae</i> infection. <i>Veterinary Microbiology</i> , 2017, 205, 14-21.	1.9	11
56	Thymol kills bacteria, reduces biofilm formation, and protects mice against a fatal infection of <i>Actinobacillus pleuropneumoniae</i> strain L20. <i>Veterinary Microbiology</i> , 2017, 203, 202-210.	1.9	30
57	Enhancement of the direct antimicrobial activity of Lysep3 against <i>Escherichia coli</i> by inserting cationic peptides into its C terminus. <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 347-355.	1.7	20
58	Apa2H1, the first head domain of Apa2 trimeric autotransporter adhesin, activates mouse bone marrow-derived dendritic cells and immunization with Apa2H1 protects against <i>Actinobacillus pleuropneumoniae</i> infection. <i>Molecular Immunology</i> , 2017, 81, 108-117.	2.2	9
59	The N-terminal and central domain of colicin A enables phage lysin to lyse <i>Escherichia coli</i> extracellularly. <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 1627-1635.	1.7	32
60	Impact of gene modification of phosphotransferase system on expression of glutamate dehydrogenase protein of <i>Streptococcus suis</i> in <i>Escherichia coli</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 612-618.	1.3	4
61	The Bacteriophage EF-P29 Efficiently Protects against Lethal Vancomycin-Resistant <i>Enterococcus faecalis</i> and Alleviates Gut Microbiota Imbalance in a Murine Bacteremia Model. <i>Frontiers in Microbiology</i> , 2017, 8, 837.	3.5	78
62	Identification and Characterization of Dpo42, a Novel Depolymerase Derived from the <i>Escherichia coli</i> Phage vB_EcoM_ECOO78. <i>Frontiers in Microbiology</i> , 2017, 8, 1460.	3.5	63
63	Endolysin LysEF-P10 shows potential as an alternative treatment strategy for multidrug-resistant <i>Enterococcus faecalis</i> infections. <i>Scientific Reports</i> , 2017, 7, 10164.	3.3	38
64	Selection of Potential Virulence Factors Contributing to <i>Streptococcus suis</i> Serotype 2 Penetration into the Blood-Brain Barrier in an In Vitro Co-Culture Model. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 161-170.	2.1	11
65	Adh enhances <i>Actinobacillus pleuropneumoniae</i> pathogenicity by binding to OR5M11 and activating p38 which induces apoptosis of PAMs and IL-8 release. <i>Scientific Reports</i> , 2016, 6, 24058.	3.3	23
66	LysGH15 kills <i>Staphylococcus aureus</i> without being affected by the humoral immune response or inducing inflammation. <i>Scientific Reports</i> , 2016, 6, 29344.	3.3	50
67	Therapeutic effect of <i>Pseudomonas aeruginosa</i> phage YH30 on mink hemorrhagic pneumonia. <i>Veterinary Microbiology</i> , 2016, 190, 5-11.	1.9	28
68	Trimeric autotransporter adhesins contribute to <i>Actinobacillus pleuropneumoniae</i> pathogenicity in mice and regulate bacterial gene expression during interactions between bacteria and porcine primary alveolar macrophages. <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 51-70.	1.7	8
69	TGF β 1 promotes bovine mammary fibroblast proliferation through the ERK 1/2 signalling pathway. <i>Cell Biology International</i> , 2016, 40, 750-760.	3.0	16
70	Enolase of <i>Streptococcus Suis</i> Serotype 2 Enhances Blood-Brain Barrier Permeability by Inducing IL-8 Release. <i>Inflammation</i> , 2016, 39, 718-726.	3.8	39
71	Characterization of <i>Enterococcus faecium</i> bacteriophage IME-EFm5 and its endolysin LysEFm5. <i>Virology</i> , 2016, 492, 11-20.	2.4	45
72	Combination Therapy of LysGH15 and Apigenin as a New Strategy for Treating Pneumonia Caused by <i>Staphylococcus aureus</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 87-94.	3.1	51

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73	Identification and characterization of HolGH15: the holin of Staphylococcus aureus bacteriophage GH15. <i>Journal of General Virology</i> , 2016, 97, 1272-1281.	2.9	24
74	Arginine Supplementation Recovered the IFN- β -Mediated Decrease in Milk Protein and Fat Synthesis by Inhibiting the GCN2/eIF2 β Pathway, Which Induces Autophagy in Primary Bovine Mammary Epithelial Cells. <i>Molecules and Cells</i> , 2016, 39, 410-417.	2.6	22
75	<i>Salmonella</i> Typhimurium strain expressing OprF-OprI protects mice against fatal infection by <i>Pseudomonas aeruginosa</i> . <i>Microbiology and Immunology</i> , 2015, 59, 533-544.	1.4	10
76	New findings on the function and potential applications of the trimeric autotransporter adhesin. <i>Antonie Van Leeuwenhoek</i> , 2015, 108, 1-14.	1.7	18
77	Mannose-modified chitosan microspheres enhance OprF-OprI-mediated protection of mice against <i>Pseudomonas aeruginosa</i> infection via induction of mucosal immunity. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 667-680.	3.6	28
78	The Adh adhesin domain is required for trimeric autotransporter Apa1-mediated <i>Actinobacillus pleuropneumoniae</i> adhesion, autoaggregation, biofilm formation and pathogenicity. <i>Veterinary Microbiology</i> , 2015, 177, 175-183.	1.9	29
79	Genome sequencing and analysis of an <i>Escherichia coli</i> phage ν B_EcoM-ep3 with a novel lysin, Lysep3. <i>Virus Genes</i> , 2015, 50, 487-497.	1.6	31
80	Macrophages largely contribute to heterologous anti- <i>Propionibacterium acnes</i> antibody-mediated protection from <i>Actinobacillus pleuropneumoniae</i> infection in mice. <i>Microbiology and Immunology</i> , 2015, 59, 166-173.	1.4	3
81	Therapeutic effect of the YH6 phage in a murine hemorrhagic pneumonia model. <i>Research in Microbiology</i> , 2015, 166, 633-643.	2.1	31
82	Differential gene expression profiling of <i>Actinobacillus pleuropneumoniae</i> during induction of primary alveolar macrophage apoptosis in piglets. <i>Microbial Pathogenesis</i> , 2015, 78, 74-86.	2.9	17
83	Specific Humoral Immune Response Induced by <i>Propionibacterium acnes</i> Can Prevent <i>Actinobacillus pleuropneumoniae</i> Infection in Mice. <i>Vaccine Journal</i> , 2014, 21, 407-416.	3.1	20
84	Structural and Biochemical Characterization Reveals LysGH15 as an Unprecedented EF-Hand-Like Calcium-Binding Phage Lysin. <i>PLoS Pathogens</i> , 2014, 10, e1004109.	4.7	85
85	Effects of nonesterified fatty acids on the synthesis and assembly of very low density lipoprotein in bovine hepatocytes in vitro. <i>Journal of Dairy Science</i> , 2014, 97, 1328-1335.	3.4	45
86	Identification of proteins of <i>Propionibacterium acnes</i> for use as vaccine candidates to prevent infection by the pig pathogen <i>Actinobacillus pleuropneumoniae</i> . <i>Vaccine</i> , 2013, 31, 5269-5275.	3.8	12
87	Genomic characterization of lytic <i>Staphylococcus aureus</i> phage GH15: providing new clues to intron shift in phages. <i>Journal of General Virology</i> , 2013, 94, 906-915.	2.9	17
88	Apa is a trimeric autotransporter adhesin of <i>Actinobacillus pleuropneumoniae</i> responsible for autoagglutination and host cell adherence. <i>Journal of Basic Microbiology</i> , 2012, 52, 598-607.	3.3	19
89	A Method for Generation Phage Cocktail with Great Therapeutic Potential. <i>PLoS ONE</i> , 2012, 7, e31698.	2.5	200
90	LysGH15, a Novel Bacteriophage Lysin, Protects a Murine Bacteremia Model Efficiently against Lethal Methicillin-Resistant <i>Staphylococcus aureus</i> Infection. <i>Journal of Clinical Microbiology</i> , 2011, 49, 111-117.	3.9	141

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91	Genomic Differences Between <i>Actinobacillus pleuropneumoniae</i> Serotypes 5b and 3 and their Distribution and Transcription Among 15 Serotypes. <i>Current Microbiology</i> , 2011, 63, 327-31.	2.2	1
92	Genomic differences between <i>Actinobacillus pleuropneumoniae</i> serotypes 1 and 3 and the diversity distribution among 15 serotypes. <i>FEMS Microbiology Letters</i> , 2010, 303, 147-155.	1.8	7
93	Selection of serotype-specific vaccine candidate genes in <i>Actinobacillus pleuropneumoniae</i> and heterologous immunization with <i>Propionibacterium acnes</i> . <i>Vaccine</i> , 2008, 26, 6274-6280.	3.8	13