Sylvain Moineau

List of Publications by Year
in descending order

245 papers	28,443 citations	19657 61 h-index	6300 158 g-index
264 all docs	264 docs citations	264 times ranked	18024 citing authors

#	Article	IF	Citations
1	CRISPR Provides Acquired Resistance Against Viruses in Prokaryotes. Science, 2007, 315, 1709-1712.	12.6	4,956
2	An updated evolutionary classification of CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2015, 13, 722-736.	28.6	2,081
3	Evolution and classification of the CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2011, 9, 467-477.	28.6	2,078
4	Bacteriophage resistance mechanisms. Nature Reviews Microbiology, 2010, 8, 317-327.	28.6	1,906
5	The CRISPR/Cas bacterial immune system cleaves bacteriophage and plasmid DNA. Nature, 2010, 468, 67-71.	27.8	1,897
6	Evolutionary classification of CRISPRâ€“Cas systems: a burst of class 2 and derived variants. Nature Reviews Microbiology, 2020, 18, 67-83.	28.6	1,427
7	Phage Response to CRISPR-Encoded Resistance in <i>Streptococcus thermophilus</i>. Journal of Bacteriology, 2008, 190, 1390-1400.	2.2	1,110
8	Diversity, Activity, and Evolution of CRISPR Loci in <i>Streptococcus thermophilus</i>. Journal of Bacteriology, 2008, 190, 1401-1412.	2.2	748
9	Revenge of the phages: defeating bacterial defences. Nature Reviews Microbiology, 2013, 11, 675-687.	28.6	572
10	CRISPR/Cas System and Its Role in Phage-Bacteria Interactions. Annual Review of Microbiology, 2010, 64, 475-493.	7.3	512
11	Phage diversity, genomics and phylogeny. Nature Reviews Microbiology, 2020, 18, 125-138.	28.6	455
12	Methods for Sampling of Airborne Viruses. Microbiology and Molecular Biology Reviews, 2008, 72, 413-444.	6.6	343
13	Biochemistry, Genetics, and Applications of Exopolysaccharide Production in Streptococcus thermophilus: A Review. Journal of Dairy Science, 2003, 86, 407-423.	3.4	247
14	CRISPR-Cas and restrictionâ€“modification systems are compatible and increase phage resistance. Nature Communications, 2013, 4, 2087.	12.8	242
15	Biodiversity and Classification of Lactococcal Phages. Applied and Environmental Microbiology, 2006, 72, 4338-4346.	3.1	231
16	Bacteriophages of lactic acid bacteria and their impact on milk fermentations. Microbial Cell Factories, 2011, 10, S20.	4.0	196
17	Evolution of a Lytic Bacteriophage via DNA Acquisition from the <i>Lactococcus lactis</i> Chromosome. Applied and Environmental Microbiology, 1994, 60, 1832-1841.	3.1	183
18	Bacteriophages and dairy fermentations. Bacteriophage, 2012, 2, 149-158.	1.9	169

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19	Identification of a genetic determinant responsible for host specificity in Streptococcus thermophilus bacteriophages. Molecular Microbiology, 2001, 41, 325-336.	2.5	163
20	Comparison of Five Bacteriophages as Models for Viral Aerosol Studies. Applied and Environmental Microbiology, 2014, 80, 4242-4250.	3.1	155
21	An anti-CRISPR from a virulent streptococcal phage inhibits Streptococcus pyogenes Cas9. Nature Microbiology, 2017, 2, 1374-1380.	13.3	153
22	The Population and Evolutionary Dynamics of Phage and Bacteria with CRISPRâ€“Mediated Immunity. PLoS Genetics, 2013, 9, e1003312.	3.5	147
23	Widespread anti-CRISPR proteins in virulent bacteriophages inhibit a range of Cas9 proteins. Nature Communications, 2018, 9, 2919.	12.8	147
24	Structure of lactococcal phage p2 baseplate and its mechanism of activation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6852-6857.	7.1	143
25	CRISPR-Cas: an efficient tool for genome engineering of virulent bacteriophages. Nucleic Acids Research, 2014, 42, 9504-9513.	14.5	131
26	Lactococcal bacteriophage p2 receptor-binding protein structure suggests a common ancestor gene with bacterial and mammalian viruses. Nature Structural and Molecular Biology, 2006, 13, 85-89.	8.2	117
27	Adaptation in bacterial CRISPR-Cas immunity can be driven by defective phages. Nature Communications, 2014, 5, 4399.	12.8	117
28	Receptor-Binding Protein of Lactococcus lactis Phages: Identification and Characterization of the Saccharide Receptor-Binding Site. Journal of Bacteriology, 2006, 188, 2400-2410.	2.2	116
29	Characterization of two polyvalent phages infecting Enterobacteriaceae. Scientific Reports, 2017, 7, 40349.	3.3	115
30	Bacteriophages in Food Fermentations: New Frontiers in a Continuous Arms Race. Annual Review of Food Science and Technology, 2013, 4, 347-368.	9.9	113
31	Multiplex PCR for Detection and Identification of Lactococcal Bacteriophages. Applied and Environmental Microbiology, 2000, 66, 987-994.	3.1	111
32	Peptidoglycan Hydrolase Fusions Maintain Their Parental Specificities. Applied and Environmental Microbiology, 2006, 72, 2988-2996.	3.1	105
33	Characterization of lactococcal bacteriophages from Quebec cheese plants. Canadian Journal of Microbiology, 1992, 38, 875-882.	1.7	103
34	Modular Structure of the Receptor Binding Proteins of Lactococcus lactis Phages. Journal of Biological Chemistry, 2006, 281, 14256-14262.	3.4	102
35	Costs of CRISPR-Cas-mediated resistance in<i>Streptococcus thermophilus</i>. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151270.	2.6	101
36	Complete Genomic Sequence of the Lytic Bacteriophage DT1 ofStreptococcus thermophilus. Virology, 1999, 255, 63-76.	2.4	98

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37	Morphological and Genetic Diversity of Temperate Phages in <i>Clostridium difficile</i>. Applied and Environmental Microbiology, 2007, 73, 7358-7366.	3.1	98
38	Isolation and Characterization of Lactococcal Bacteriophages from Cultured Buttermilk Plants in the United States. Journal of Dairy Science, 1996, 79, 2104-2111.	3.4	97
39	Cleavage of Phage DNA by the Streptococcus thermophilus CRISPR3-Cas System. PLoS ONE, 2012, 7, e40913.	2.5	96
40	Abortive Infection Mechanisms and Prophage Sequences Significantly Influence the Genetic Makeup of Emerging Lytic Lactococcal Phages. Journal of Bacteriology, 2007, 189, 1482-1487.	2.2	95
41	Homologous Recombination between a Lactococcal Bacteriophage and the Chromosome of Its Host Strain. Virology, 2000, 270, 65-75.	2.4	94
42	A Unified Resource for Tracking Anti-CRISPR Names. CRISPR Journal, 2018, 1, 304-305.	2.9	94
43	Effect of Exopolysaccharides on Phage-Host Interactions in Lactococcus lactis. Applied and Environmental Microbiology, 2002, 68, 4364-4369.	3.1	92
44	Structure, Adsorption to Host, and Infection Mechanism of Virulent Lactococcal Phage p2. Journal of Virology, 2013, 87, 12302-12312.	3.4	85
45	Evolutionary emergence of infectious diseases in heterogeneous host populations. PLoS Biology, 2018, 16, e2006738.	5.6	84
46	Detection of Airborne Lactococcal Bacteriophages in Cheese Manufacturing Plants. Applied and Environmental Microbiology, 2011, 77, 491-497.	3.1	83
47	Applications of phage resistance in lactic acid bacteria. , 1999, 76, 377-382.		82
48	The three major types of <scp>CRISPR</scp>â€‹<scp>Cas</scp> systems function independently in <scp>CRISPR RNA</scp> biogenesis in <scp><i>S</i></scp><i>treptococcus thermophilus</i>. Molecular Microbiology, 2014, 93, 98-112.	2.5	81
49	Genome Engineering of Virulent Lactococcal Phages Using CRISPR-Cas9. ACS Synthetic Biology, 2017, 6, 1351-1358.	3.8	81
50	Genomic Organization and Molecular Analysis of Virulent Bacteriophage 2972 Infecting an Exopolysaccharide-Producing Streptococcus thermophilus Strain. Applied and Environmental Microbiology, 2005, 71, 4057-4068.	3.1	80
51	Characterization of 1706, a virulent phage from Lactococcus lactis with similarities to prophages from other Firmicutes. Virology, 2008, 373, 298-309.	2.4	77
52	Complete Genomic Sequence of Bacteriophage ul36: Demonstration of Phage Heterogeneity within the P335 Quasi-Species of Lactococcal Phages. Virology, 2002, 296, 308-320.	2.4	75
53	Evolution of Lactococcus lactis Phages within a Cheese Factory. Applied and Environmental Microbiology, 2009, 75, 5336-5344.	3.1	73
54	Differentiation of Two Abortive Mechanisms by Using Monoclonal Antibodies Directed toward Lactococcal Bacteriophage Capsid Proteins. Applied and Environmental Microbiology, 1993, 59, 208-212.	3.1	73

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55	Phages as friends and enemies in food processing. Current Opinion in Biotechnology, 2018, 49, 185-190.	6.6	72
56	Streamlining CRISPR spacer-based bacterial host predictions to decipher the viral dark matter. Nucleic Acids Research, 2021, 49, 3127-3138.	14.5	72
57	Characterization of Mesophilic Mixed Starter Cultures Used for the Manufacture of Aged Cheddar Cheese. Journal of Dairy Science, 2000, 83, 620-627.	3.4	70
58	Molecular Characterization of a Theta Replication Plasmid and Its Use for Development of a Two-Component Food-Grade Cloning System for Lactococcus lactis. Applied and Environmental Microbiology, 2001, 67, 1700-1709.	3.1	70
59	Phage Production and Maintenance of Stocks, Including Expected Stock Lifetimes. Methods in Molecular Biology, 2009, 501, 203-219.	0.9	70
60	Galactose and Lactose Genes from the Galactose-Positive Bacterium <i>Streptococcus salivarius</i> and the Phylogenetically Related Galactose-Negative Bacterium <i>Streptococcus thermophilus</i> : Organization, Sequence, Transcription, and Activity of the <i>gal</i> Gene Products. Journal of Bacteriology, 2002, 184, 785-793.	2.2	69
61	Evaluation of Filters for the Sampling and Quantification of RNA Phage Aerosols. Aerosol Science and Technology, 2010, 44, 893-901.	3.1	69
62	Llama Antibodies against a Lactococcal Protein Located at the Tip of the Phage Tail Prevent Phage Infection. Journal of Bacteriology, 2005, 187, 4531-4541.	2.2	68
63	Functional and Structural Basis for a Bacteriophage Homolog of Human RAD52. Current Biology, 2008, 18, 1142-1146.	3.9	66
64	Prophages of the genus <scp><i>B</i></scp><i>ifidobacterium</i> as modulating agents of the infant gut microbiota. Environmental Microbiology, 2016, 18, 2196-2213.	3.8	66
65	Restriction/Modification Systems and Restriction Endonucleases Are More Effective on Lactococcal Bacteriophages That Have Emerged Recently in the Dairy Industry. Applied and Environmental Microbiology, 1993, 59, 197-202.	3.1	66
66	AbiQ, an Abortive Infection Mechanism from <i>Lactococcus lactis</i>. Applied and Environmental Microbiology, 1998, 64, 4748-4756.	3.1	66
67	Characterization of a New Virulent Phage (MLC-A) of Lactobacillus paracasei. Journal of Dairy Science, 2006, 89, 2414-2423.	3.4	64
68	Sequence and comparative genomic analysis of lactococcal bacteriophages jj50, 712 and P008: evolutionary insights into the 936 phage species. FEMS Microbiology Letters, 2006, 261, 253-261.	1.8	63
69	Bacteriophages of Lactobacillus. Frontiers in Bioscience - Landmark, 2009, Volume, 1661.	3.0	63
70	7-Deazaguanine modifications protect phage DNA from host restriction systems. Nature Communications, 2019, 10, 5442.	12.8	63
71	Crystal Structure of the Receptor-Binding Protein Head Domain from Lactococcus lactis Phage bIL170. Journal of Virology, 2006, 80, 9331-9335.	3.4	62
72	Genome Sequence and Global Gene Expression of Q54, a New Phage Species Linking the 936 and c2 Phage Species of Lactococcus lactis. Journal of Bacteriology, 2006, 188, 6101-6114.	2.2	61

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73	Characterization of Coliphage PR772 and Evaluation of Its Use for Virus Filter Performance Testing. Applied and Environmental Microbiology, 2004, 70, 4864-4871.	3.1	60
74	Lactococcal Phage Genes Involved in Sensitivity to AbiK and Their Relation to Single-Strand Annealing Proteins. Journal of Bacteriology, 2004, 186, 3649-3652.	2.2	59
75	The Cell Lysis Activity of the <i>Streptococcus agalactiae</i> Bacteriophage B30 Endolysin Relies on the Cysteine, Histidine-Dependent Amidohydrolase/Peptidase Domain. Applied and Environmental Microbiology, 2006, 72, 5108-5112.	3.1	59
76	Virulent coliphages in 1-year-old children fecal samples are fewer, but more infectious than temperate coliphages. Nature Communications, 2020, 11, 378.	12.8	59
77	Structure and activity of <scp>AbiQ</scp>, a lactococcal endoribonuclease belonging to the type <scp>III</scp> toxinâ€“antitoxin system. Molecular Microbiology, 2013, 87, 756-768.	2.5	57
78	Fat-free yogurt made using a galactose-positive exopolysaccharide-producing recombinant strain of Streptococcus thermophilus. Journal of Dairy Science, 2009, 92, 477-482.	3.4	56
79	Crystal Structure and Function of a DARPin Neutralizing Inhibitor of Lactococcal Phage TP901-1. Journal of Biological Chemistry, 2009, 284, 30718-30726.	3.4	55
80	Characterization of the Two-Component Abortive Phage Infection Mechanism AbiT from Lactococcus lactis. Journal of Bacteriology, 2002, 184, 6325-6332.	2.2	53
81	Streptococcus thermophilus bacteriophages. International Dairy Journal, 2010, 20, 657-664.	3.0	53
82	Molecular Insights on the Recognition of a Lactococcus lactis Cell Wall Pellicle by the Phage 1358 Receptor Binding Protein. Journal of Virology, 2014, 88, 7005-7015.	3.4	53
83	Salmonella enterica Prophage Sequence Profiles Reflect Genome Diversity and Can Be Used for High Discrimination Subtyping. Frontiers in Microbiology, 2018, 9, 836.	3.5	53
84	Morphology, Genome Sequence, and Structural Proteome of Type Phage P335 from <i>Lactococcus lactis</i>. Applied and Environmental Microbiology, 2008, 74, 4636-4644.	3.1	52
85	Phage Morphology Recapitulates Phylogeny: The Comparative Genomics of a New Group of Myoviruses. PLoS ONE, 2012, 7, e40102.	2.5	52
86	Characterization of <i>Lactococcus lactis</i> Phage 949 and Comparison with Other Lactococcal Phages. Applied and Environmental Microbiology, 2010, 76, 6843-6852.	3.1	51
87	Versatile and robust genome editing with <i>Streptococcus thermophilus</i> CRISPR1-Cas9. Genome Research, 2020, 30, 107-117.	5.5	51
88	Genome Annotation and Intraviral Interactome for the <i>Streptococcus pneumoniae</i> Virulent Phage Dp-1. Journal of Bacteriology, 2011, 193, 551-562.	2.2	50
89	Immune loss as a driver of coexistence during host-phage coevolution. ISME Journal, 2018, 12, 585-597.	9.8	50
90	Role of <i>galK</i> and <i>galM</i> in Galactose Metabolism by <i>Streptococcus thermophilus</i>. Applied and Environmental Microbiology, 2008, 74, 1264-1267.	3.1	49

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91	A reverse transcriptase-related protein mediates phage resistance and polymerizes untemplated DNA in vitro. Nucleic Acids Research, 2011, 39, 7620-7629.	14.5	49
92	Expression and Site-Directed Mutagenesis of the Lactococcal Abortive Phage Infection Protein AbiK. Journal of Bacteriology, 2005, 187, 3721-3730.	2.2	48
93	Identification of a New P335 Subgroup through Molecular Analysis of Lactococcal Phages Q33 and BM13. Applied and Environmental Microbiology, 2013, 79, 4401-4409.	3.1	48
94	Effect of the Abortive Infection Mechanism and Type III Toxin/Antitoxin System AbiQ on the Lytic Cycle of Lactococcus lactis Phages. Journal of Bacteriology, 2013, 195, 3947-3956.	2.2	47
95	Diversity of Streptococcus thermophilus Phages in a Large-Production Cheese Factory in Argentina. Journal of Dairy Science, 2006, 89, 3791-3799.	3.4	46
96	Novel Food-Grade Plasmid Vector Based on Melibiose Fermentation for the Genetic Engineering of Lactococcus lactis. Applied and Environmental Microbiology, 2002, 68, 6152-6161.	3.1	45
97	Machine Learning Assisted Design of Highly Active Peptides for Drug Discovery. PLoS Computational Biology, 2015, 11, e1004074.	3.2	45
98	Phage-host interactions in Streptococcus thermophilus: Genome analysis of phages isolated in Uruguay and ectopic spacer acquisition in CRISPR array. Scientific Reports, 2017, 7, 43438.	3.3	45
99	Comparison of advanced whole genome sequence-based methods to distinguish strains of Salmonella enterica serovar Heidelberg involved in foodborne outbreaks in QuÃ©bec. Food Microbiology, 2018, 73, 99-110.	4.2	45
100	CRISPRStudio: A User-Friendly Software for Rapid CRISPR Array Visualization. Viruses, 2018, 10, 602.	3.3	45
101	Cas9 Allosteric Inhibition by the Anti-CRISPR Protein AcrIIA6. Molecular Cell, 2019, 76, 922-937.e7.	9.7	44
102	Characterization of Genes Involved in the Metabolism of Î±-Galactosides by Lactococcus raffinolactis. Applied and Environmental Microbiology, 2003, 69, 4049-4056.	3.1	43
103	Improving the Safety of Staphylococcus aureus Polyvalent Phages by Their Production on a Staphylococcus xylosus Strain. PLoS ONE, 2014, 9, e102600.	2.5	43
104	Preventing Phage Lysis of Lactococcus Lactis in Cheese Production Using A Neutralizing Heavy-Chain Antibody Fragment from Llama. Journal of Dairy Science, 2002, 85, 1376-1382.	3.4	42
105	A Syst-OMICS Approach to Ensuring Food Safety and Reducing the Economic Burden of Salmonellosis. Frontiers in Microbiology, 2017, 8, 996.	3.5	42
106	Isolation and Characterization of a Streptococcus thermophilus Plasmid Closely Related to the pMV158 Family. Plasmid, 2001, 45, 171-183.	1.4	40
107	Genetic and Biochemical Characterization of the Phosphoenolpyruvate:Glucose/Mannose Phosphotransferase System of Streptococcus thermophilus. Applied and Environmental Microbiology, 2003, 69, 5423-5432.	3.1	40
108	Global gene expression analysis of two Streptococcus thermophilus bacteriophages using DNA microarray. Virology, 2005, 340, 192-208.	2.4	39

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109	Characterization of Streptococcus thermophilus Host Range Phage Mutants. Applied and Environmental Microbiology, 2006, 72, 3036-3041.	3.1	39
110	KSY1, a lactococcal phage with a T7-like transcription. Virology, 2007, 365, 1-9.	2.4	39
111	The targeted recognition of <scp><i>L</i></scp><i>actococcus lactis</i> phages to their polysaccharide receptors. Molecular Microbiology, 2015, 96, 875-886.	2.5	39
112	Applications of phage resistance in lactic acid bacteria. , 1999, , 377-382.		39
113	Characterization of Two Virulent Phages of Lactobacillus plantarum. Applied and Environmental Microbiology, 2012, 78, 8719-8734.	3.1	38
114	Resistance of Aerosolized Bacterial Viruses to Relative Humidity and Temperature. Applied and Environmental Microbiology, 2015, 81, 7305-7311.	3.1	38
115	Characterization and diversity of phages infecting Aeromonas salmonicida subsp. salmonicida. Scientific Reports, 2017, 7, 7054.	3.3	37
116	Monoclonal Antibodies Raised against Native Major Capsid Proteins of Lactococcal c2-Like Bacteriophages. Applied and Environmental Microbiology, 1998, 64, 4255-4259.	3.1	37
117	Genome analysis of two virulent Streptococcus thermophilus phages isolated in Argentina. International Journal of Food Microbiology, 2009, 136, 101-109.	4.7	36
118	Efficacy of two Staphylococcus aureus phage cocktails in cheese production. International Journal of Food Microbiology, 2016, 217, 7-13.	4.7	36
119	Genomic Diversity of Phages Infecting Probiotic Strains of Lactobacillus paracasei. Applied and Environmental Microbiology, 2016, 82, 95-105.	3.1	36
120	DNA Sequence Analysis of Three Lactococcus lactis Plasmids Encoding Phage Resistance Mechanisms. Journal of Dairy Science, 2001, 84, 1610-1620.	3.4	35
121	Solution and electron microscopy characterization of lactococcal phage baseplates expressed in Escherichia coli. Journal of Structural Biology, 2010, 172, 75-84.	2.8	35
122	Detecting natural adaptation of the Streptococcus thermophilus CRISPR-Cas systems in research and classroom settings. Nature Protocols, 2017, 12, 547-565.	12.0	35
123	Genome Organization and Characterization of the Virulent Lactococcal Phage 1358 and Its Similarities to <i>Listeria</i> Phages. Applied and Environmental Microbiology, 2010, 76, 1623-1632.	3.1	34
124	Inactivation of dairy bacteriophages by commercial sanitizers and disinfectants. International Journal of Food Microbiology, 2014, 171, 41-47.	4.7	34
125	Complete Genome Sequence of Streptococcus thermophilus SMQ-301, a Model Strain for Phage-Host Interactions. Genome Announcements, 2015, 3, .	0.8	33
126	AbiV, a Novel Antiphage Abortive Infection Mechanism on the Chromosome of <i>Lactococcus lactis</i> subsp. <i>cremoris</i> MG1363. Applied and Environmental Microbiology, 2008, 74, 6528-6537.	3.1	32

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127	Characterization of Five Podoviridae Phages Infecting Citrobacter freundii. Frontiers in Microbiology, 2016, 7, 1023.	3.5	32
128	A Protocol for Extraction of Infective Viromes Suitable for Metagenomics Sequencing from Low Volume Fecal Samples. Viruses, 2019, 11, 667.	3.3	32
129	Diversity and Host Specificity Revealed by Biological Characterization and Whole Genome Sequencing of Bacteriophages Infecting Salmonella enterica. Viruses, 2019, 11, 854.	3.3	32
130	P087, a lactococcal phage with a morphogenesis module similar to an Enterococcus faecalis prophage. Virology, 2009, 388, 49-56.	2.4	31
131	Microbiological and molecular impacts of AbiK on the lytic cycle of Lactococcus lactis phages of the 936 and P335 species. Microbiology (United Kingdom), 2000, 146, 445-453.	1.8	31
132	Distribution and composition of the lysis cassette ofLactococcus lactisphages and functional analysis of bacteriophage ul36 holin. FEMS Microbiology Letters, 2004, 233, 37-43.	1.8	30
133	Cryo-Electron Microscopy Structure of Lactococcal Siphophage 1358 Virion. Journal of Virology, 2014, 88, 8900-8910.	3.4	30
134	Characterization of a Galactokinase-Positive Recombinant Strain of Streptococcus thermophilus. Applied and Environmental Microbiology, 2004, 70, 4596-4603.	3.1	29
135	Argentinean Lactococcus lactis bacteriophages: genetic characterization and adsorption studies. Journal of Applied Microbiology, 2007, 104, 071003000434008-???.	3.1	29
136	Involvement of the Major Capsid Protein and Two Early-Expressed Phage Genes in the Activity of the Lactococcal Abortive Infection Mechanism AbiT. Applied and Environmental Microbiology, 2012, 78, 6890-6899.	3.1	28
137	Comparison of Polycarbonate and Polytetrafluoroethylene Filters for Sampling of Airborne Bacteriophages. Aerosol Science and Technology, 2010, 44, 197-201.	3.1	27
138	Crystal Structure of ORF12 from<i>Lactococcus lactis</i>Phage p2 Identifies a Tape Measure Protein Chaperone. Journal of Bacteriology, 2009, 191, 728-734.	2.2	26
139	Lactobacillli expressing llama VHH fragments neutralise Lactococcusphages. BMC Biotechnology, 2007, 7, 58.	3.3	25
140	Programming Native CRISPR Arrays for the Generation of Targeted Immunity. MBio, 2016, 7, .	4.1	25
141	Variability in the durability of CRISPR-Cas immunity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180097.	4.0	25
142	The Doubly Phosphorylated Form of HPr, HPr(Ser-P)(Hisâˆ¼P), Is Abundant in Exponentially Growing Cells of Streptococcus thermophilus and Phosphorylates the Lactose Transporter LacS as Efficiently as HPr(Hisâˆ¼P). Applied and Environmental Microbiology, 2005, 71, 1364-1372.	3.1	24
143	Identification and Characterization of the Phage Gene <i>sav</i> , Involved in Sensitivity to the Lactococcal Abortive Infection Mechanism AbiV. Applied and Environmental Microbiology, 2009, 75, 2484-2494.	3.1	24
144	Biology and Genome Sequence of Streptococcus mutans Phage M102AD. Applied and Environmental Microbiology, 2012, 78, 2264-2271.	3.1	24

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145	Evaluation of bacterial contaminants found on unused paper towels and possible postcontamination after handwashing: A pilot study. American Journal of Infection Control, 2012, 40, e5-e9.	2.3	24
146	Study of mesophilic Aeromonas salmonicida A527 strain sheds light on the speciesâ€™ lifestyles and taxonomic dilemma. FEMS Microbiology Letters, 2017, 364, .	1.8	24
147	Characterization of the Escherichia coli Virulent Myophage ST32. Viruses, 2018, 10, 616.	3.3	24
148	Cooperation between Different CRISPR-Cas Types Enables Adaptation in an RNA-Targeting System. MBio, 2021, 12, .	4.1	24
149	Use of an Î±-Galactosidase Gene as a Food-Grade Selection Marker for Streptococcus thermophilus. Journal of Dairy Science, 2005, 88, 2341-2347.	3.4	23
150	Lactococcal Abortive Infection Protein AbiV Interacts Directly with the Phage Protein SaV and Prevents Translation of Phage Proteins. Applied and Environmental Microbiology, 2010, 76, 7085-7092.	3.1	23
151	Lactococcal phage p2 ORF35â€Sak3 is an ATPase involved in DNA recombination and AbiK mechanism. Molecular Microbiology, 2011, 80, 102-116.	2.5	23
152	Delivery of CRISPR-Cas systems using phage-based vectors. Current Opinion in Biotechnology, 2021, 68, 174-180.	6.6	23
153	Control of Bacteriophages in Industrial Fermentations. , 2004, , .		22
154	Crystal Structure of a Chimeric Receptor Binding Protein Constructed from Two Lactococcal Phages. Journal of Bacteriology, 2009, 191, 3220-3225.	2.2	22
155	The CRISPR-Cas Immune System and Genetic Transfers: Reaching an Equilibrium. Microbiology Spectrum, 2015, 3, PLAS-0034-2014.	3.0	22
156	A proposed new bacteriophage subfamily: â€œJerseyvirinaeâ€. Archives of Virology, 2015, 160, 1021-1033.	2.1	22
157	Detection of preQ0 deazaguanine modifications in bacteriophage CAjan DNA using Nanopore sequencing reveals same hypermodification at two distinct DNA motifs. Nucleic Acids Research, 2020, 48, 10383-10396.	14.5	22
158	Novel Genus of Phages Infecting Streptococcus thermophilus: Genomic and Morphological Characterization. Applied and Environmental Microbiology, 2020, 86, .	3.1	22
159	Investigating the requirement for calcium during lactococcal phage infection. International Journal of Food Microbiology, 2015, 201, 47-51.	4.7	21
160	Production of Monoclonal Antibodies against the Major Capsid Protein of the <i>Lactococcus</i> Bacteriophage ul36 and Development of an Enzyme-Linked Immunosorbent Assay for Direct Phage Detection in Whey and Milk. Applied and Environmental Microbiology, 1993, 59, 2034-2040.	3.1	21
161	Deciphering the function of lactococcal phage ul36 Sak domains. Journal of Structural Biology, 2010, 170, 462-469.	2.8	20
162	Analysis of viromes and microbiomes from pig fecal samples reveals that phages and prophages rarely carry antibiotic resistance genes. ISME Communications, 2021, 1, .	4.2	20

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163	Resistance of Aerosolized Bacterial Viruses to Four Germicidal Products. PLoS ONE, 2016, 11, e0168815.	2.5	19
164	Multilocus Sequence Typing Scheme for the Characterization of 936-Like Phages Infecting Lactococcus lactis. Applied and Environmental Microbiology, 2012, 78, 4646-4653.	3.1	18
165	Microencapsulation of a Staphylococcus phage for concentration and long-term storage. Food Microbiology, 2018, 76, 304-309.	4.2	18
166	<i>Lactococcus lactis</i> type III-A CRISPR-Cas system cleaves bacteriophage RNA. RNA Biology, 2019, 16, 461-468.	3.1	18
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