Stefanie Barbirz

List of Publications by Year
in descending order

27	932	516561 16	580701 25
papers	citations	h-index	g-index

29	29	29	932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological foundations of successful bacteriophage therapy. EMBO Molecular Medicine, 2022, 14, .	3.3	29
2	Bacterial Mimetic Systems for Studying Bacterial Inactivation and Infection. Biophysical Journal, 2021, 120, 148a.	0.2	0
3	Pantoea stewartii WceF is a glycan biofilm-modifying enzyme with a bacteriophage tailspike-like fold. Journal of Biological Chemistry, 2021, 296, 100286.	1.6	5
4	In vitro Analysis of O-Antigen-Specific Bacteriophage P22 Inactivation by Salmonella Outer Membrane Vesicles. Frontiers in Microbiology, 2020, 11, 510638.	1.5	11
5	Increasing the Affinity of an Oâ€Antigen Polysaccharide Binding Site in Shigella flexneri Bacteriophage Sf6 Tailspike Protein. Chemistry - A European Journal, 2020, 26, 7263-7273.	1.7	9
6	Purely Polysaccharide-Based Biofilm Matrix Provides Size-Selective Diffusion Barriers for Nanoparticles and Bacteriophages. Biomacromolecules, 2019, 20, 3842-3854.	2.6	45
7	Time-resolved DNA release from an O-antigenâ€“specific Salmonella bacteriophage with a contractile tail. Journal of Biological Chemistry, 2019, 294, 11751-11761.	1.6	25
8	Solvent Networks Tune Thermodynamics of Oligosaccharide Complex Formation in an Extended Protein Binding Site. Journal of the American Chemical Society, 2018, 140, 10447-10455.	6.6	11
9	In Vitro Studies of Lipopolysaccharide-Mediated DNA Release of Podovirus HK620. Viruses, 2018, 10, 289.	1.5	22
10	Bacteriophage Sf6 Tailspike Protein for Detection of Shigella flexneri Pathogens. Viruses, 2018, 10, 431.	1.5	25
11	Area Increase and Budding in Giant Vesicles Triggered by Light: Behind the Scene. Advanced Science, 2018, 5, 1800432.	5.6	37
12	Complex carbohydrate recognition by proteins: Fundamental insights from bacteriophage cell adhesion systems. Perspectives in Science, 2017, 11, 45-52.	0.6	13
13	Not a barrier but a key: How bacteriophages exploit host's Oâ€antigen as an essential receptor to initiate infection. Molecular Microbiology, 2017, 105, 353-357.	1.2	70
14	Bacteriophage Tailspikes and Bacterial O-Antigens as a Model System to Study Weak-Affinity Proteinâ€“Polysaccharide Interactions. Journal of the American Chemical Society, 2016, 138, 9109-9118.	6.6	17
15	Bacteriophage tailspike protein based assay to monitor phase variable glucosylations in Salmonella O-antigens. BMC Microbiology, 2016, 16, 207.	1.3	40
16	Conformational Diversity of O-Antigen Polysaccharides of the Gram-Negative Bacterium Shigella flexneri Serotype Y. Journal of Physical Chemistry B, 2014, 118, 2523-2534.	1.2	18
17	Single amino acid exchange in bacteriophage HK620 tailspike protein results in thousand-fold increase of its oligosaccharide affinity. Glycobiology, 2013, 23, 59-68.	1.3	18
18	An essential serotype recognition pocket on phage P22 tailspike protein forces Salmonella enterica serovar Paratyphi A O-antigen fragments to bind as nonsolution conformers. Glycobiology, 2013, 23, 486-494.	1.3	18

#	Article	IF	Citations
19	Structural studies of the O-antigen polysaccharide from Escherichia coli TD2158 having O18 serogroup specificity and aspects of its interaction with the tailspike endoglycosidase of the infecting bacteriophage HK620. Carbohydrate Research, 2012, 357, 118-125.	1.1	16
20	Tail morphology controls DNA release in two Salmonella phages with one lipopolysaccharide receptor recognition system. Molecular Microbiology, 2012, 83, 1244-1253.	1.2	53
21	Carbohydrate binding of Salmonella phage P22 tailspike protein and its role during host cell infection. Biochemical Society Transactions, 2010, 38, 1386-1389.	1.6	42
22	Tailspike Interactions with Lipopolysaccharide Effect DNA Ejection from Phage P22 Particles in Vitro. Journal of Biological Chemistry, 2010, 285, 36768-36775.	1.6	84
23	Phage Tailspike Proteins with Î²â€Solenoid Fold as Thermostable Carbohydrate Binding Materials. Macromolecular Bioscience, 2009, 9, 169-173.	2.1	22
24	Crystal structure of Escherichia coli phage HK620 tailspike: podoviral tailspike endoglycosidase modules are evolutionarily related. Molecular Microbiology, 2008, 69, 303-316.	1.2	121
25	An Intersubunit Active Site between Supercoiled Parallel Î² Helices in the Trimeric Tailspike Endorhamnosidase of Shigella flexneri Phage Sf6. Structure, 2008, 16, 766-775.	1.6	83
26	Mass Spectrometry Unravels Disulfide Bond Formation as the Mechanism That Activates a Molecular Chaperone. Journal of Biological Chemistry, 2000, 275, 18759-18766.	1.6	88
27	Multiple and Subsequent MALDI-MS On-Target Chemical Reactions for the Characterization of Disulfide Bonds and Primary Structures of Proteins. , 2000, 146, 167-184.		10