

Kristin N Parent

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,796
citations

304743

22
h-index

276875

41
g-index

58
all docs

58
docs citations

58
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-directed, chemically tunable assembly of one-, two- and three-dimensional crystalline protein arrays. <i>Nature Chemistry</i> , 2012, 4, 375-382.	13.6	332
2	P22 Coat Protein Structures Reveal a Novel Mechanism for Capsid Maturation: Stability without Auxiliary Proteins or Chemical Crosslinks. <i>Structure</i> , 2010, 18, 390-401.	3.3	136
3	Structural Characterization of the Dual Glycan Binding Adeno-Associated Virus Serotype 6. <i>Journal of Virology</i> , 2010, 84, 12945-12957.	3.4	120
4	Portal protein functions akin to a DNA-sensor that couples genome-packaging to icosahedral capsid maturation. <i>Nature Communications</i> , 2017, 8, 14310.	12.8	90
5	<scp>OmpA</scp> and <scp>OmpC</scp> are critical host factors for bacteriophage <scp>S</scp>f6 entry in <scp><i>S</i></scp><i>higella</i>. <i>Molecular Microbiology</i> , 2014, 92, 47-60.	2.5	82
6	Human Bocavirus Capsid Structure: Insights into the Structural Repertoire of the <i>Parvoviridae</i>. <i>Journal of Virology</i> , 2010, 84, 5880-5889.	3.4	79
7	â€œLet the phage do the workâ€™: Using the phage P22 coat protein structures as a framework to understand its folding and assembly mutants. <i>Virology</i> , 2010, 401, 119-130.	2.4	78
8	Structural evolution of the P22-like phages: Comparison of Sf6 and P22 procapsid and virion architectures. <i>Virology</i> , 2012, 427, 177-188.	2.4	56
9	Electrostatic interactions govern both nucleation and elongation during phage P22 procapsid assembly. <i>Virology</i> , 2005, 340, 33-45.	2.4	55
10	Quantitative Analysis of Multi-component Spherical Virus Assembly: Scaffolding Protein Contributes to the Global Stability of Phage P22 Procapsids. <i>Journal of Molecular Biology</i> , 2006, 359, 1097-1106.	4.2	48
11	Structure of a Protozoan Virus from the Human Genitourinary Parasite <i>Trichomonas vaginalis</i> . <i>MBio</i> , 2013, 4, .	4.1	43
12	Three-Dimensional Structure of a Protozoal Double-Stranded RNA Virus That Infects the Enteric Pathogen <i>Giardia lamblia</i> . <i>Journal of Virology</i> , 2015, 89, 1182-1194.	3.4	42
13	The mitochondrial permeability transition phenomenon elucidated by cryo-EM reveals the genuine impact of calcium overload on mitochondrial structure and function. <i>Scientific Reports</i> , 2021, 11, 1037.	3.3	38
14	Stepwise molecular display utilizing icosahedral and helical complexes of phage coat and decoration proteins in the development of robust nanoscale display vehicles. <i>Biomaterials</i> , 2012, 33, 5628-5637.	11.4	35
15	Structural and Proteomic Characterization of the Initiation of Giant Virus Infection. <i>Cell</i> , 2020, 181, 1046-1061.e6.	28.9	35
16	Phage P22 Procapsids Equilibrate with Free Coat Protein Subunits. <i>Journal of Molecular Biology</i> , 2007, 365, 513-522.	4.2	34
17	Bacteriophage P22 ejects all of its internal proteins before its genome. <i>Virology</i> , 2015, 485, 128-134.	2.4	34
18	Breaking Symmetry in Viral Icosahedral Capsids as Seen through the Lenses of X-ray Crystallography and Cryo-Electron Microscopy. <i>Viruses</i> , 2018, 10, 67.	3.3	34

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19	Shigella Phages Isolated during a Dysentery Outbreak Reveal Uncommon Structures and Broad Species Diversity. <i>Journal of Virology</i> , 2018, 92, .	3.4	33
20	Polyhead formation in phage P22 pinpoints a region in coat protein required for conformational switching. <i>Molecular Microbiology</i> , 2007, 65, 1300-1310.	2.5	29
21	Cryo-reconstructions of P22 polyheads suggest that phage assembly is nucleated by trimeric interactions among coat proteins. <i>Physical Biology</i> , 2010, 7, 045004.	1.8	29
22	Determinants of bacteriophage P22 polyhead formation: the role of coat protein flexibility in conformational switching. <i>Molecular Microbiology</i> , 2010, 77, 1568-1582.	2.5	28
23	Genes affecting progression of bacteriophage P22 infection in <i>Salmonella</i> identified by transposon and single gene deletion screens. <i>Molecular Microbiology</i> , 2018, 108, 288-305.	2.5	28
24	Key Residues of <i>S. flexneri</i> OmpA Mediate Infection by Bacteriophage Sf6. <i>Journal of Molecular Biology</i> , 2015, 427, 1964-1976.	4.2	25
25	Three-dimensional reconstructions of the bacteriophage CUS-3 virion reveal a conserved coat protein I-domain but a distinct tailspike receptor-binding domain. <i>Virology</i> , 2014, 464-465, 55-66.	2.4	24
26	Virion Structure of Baboon Reovirus, a Fusogenic Orthoreovirus That Lacks an Adhesion Fiber. <i>Journal of Virology</i> , 2011, 85, 7483-7495.	3.4	20
27	Polyelectrolyte multilayers as anti-adhesive membrane coatings for virus concentration and recovery. <i>Journal of Membrane Science</i> , 2014, 469, 140-150.	8.2	20
28	Elution Is a Critical Step for Recovering Human Adenovirus 40 from Tap Water and Surface Water by Cross-Flow Ultrafiltration. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4982-4993.	3.1	20
29	A second-site suppressor of a folding defect functions via interactions with a chaperone network to improve folding and assembly in vivo. <i>Molecular Microbiology</i> , 2004, 54, 1036-1050.	2.5	19
30	Emergence of a Competence-Reducing Filamentous Phage from the Genome of <i>Acinetobacter baylyi</i> ADP1. <i>Journal of Bacteriology</i> , 2016, 198, 3209-3219.	2.2	17
31	Microscopic Characterization of the Brazilian Giant Samba Virus. <i>Viruses</i> , 2017, 9, 30.	3.3	15
32	Modeling the Effects of Calcium Overload on Mitochondrial Ultrastructural Remodeling. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2071.	2.5	13
33	Evolved Populations of <i>Shigella flexneri</i> Phage Sf6 Acquire Large Deletions, Altered Genomic Architecture, and Faster Life Cycles. <i>Genome Biology and Evolution</i> , 2016, 8, 2827-2840.	2.5	12
34	A Comparison Study of iTEP Nanoparticle-Based CTL Vaccine Carriers Revealed a Surprise Relationship between the Stability and Efficiency of the Carriers. <i>Theranostics</i> , 2016, 6, 666-678.	10.0	11
35	The phage L capsid decoration protein has a novel OB-fold and an unusual capsid binding strategy. <i>ELife</i> , 2019, 8, .	6.0	11
36	Ecology, Structure, and Evolution of <i>Shigella</i> Phages. <i>Annual Review of Virology</i> , 2020, 7, 121-141.	6.7	10

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37	A Concerted Mechanism for the Suppression of a Folding Defect through Interactions with Chaperones. <i>Journal of Biological Chemistry</i> , 2004, 279, 17473-17482.	3.4	8
38	A cornucopia of Shigella phages from the Cornhusker State. <i>Virology</i> , 2019, 538, 45-52.	2.4	8
39	Structure and physiology of giant DNA viruses. <i>Current Opinion in Virology</i> , 2021, 49, 58-67.	5.4	7
40	Students' use of chemistry core ideas to explain the structure and stability of <scp>DNA</scp>. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 55-68.	1.2	6
41	Large Metabolic Rewiring from Small Genomic Changes between Strains of <i>Shigella flexneri</i> . <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	6
42	GroEL/S substrate specificity based on substrate unfolding propensity. <i>Cell Stress and Chaperones</i> , 2007, 12, 20.	2.9	6
43	Models in the Biology Classroom: An In-Class Modeling Activity on Meiosis. <i>American Biology Teacher</i> , 2017, 79, 482-491.	0.2	4
44	Connecting Ideas across Courses. <i>American Biology Teacher</i> , 2021, 83, 303-310.	0.2	4
45	Creating and testing an activity with interdisciplinary connections: entropy to osmosis. <i>Chemistry Education Research and Practice</i> , 0, , .	2.5	4
46	Promotion of CTL epitope presentation by a nanoparticle with environment-responsive stability and phagolysosomal escape capacity. <i>Journal of Controlled Release</i> , 2020, 328, 653-664.	9.9	2
47	<i>Shigella</i> viruses Sf22 and KRT47 require outer membrane protein C for infection. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183920.	2.6	2
48	A Gateway into Understanding the Unique Vertex of Samba Virus. <i>Microscopy and Microanalysis</i> , 2018, 24, 1438-1439.	0.4	1
49	Abstract 17188: Cryoem Analysis in Cardiac Isolated Mitochondria Reveals New Insights for CsA and mPTP Activation. <i>Circulation</i> , 2018, 138, .	1.6	1
50	Microscopic Evidence for a Stargate Structure in the Giant Virus, Samba Virus.. <i>Microscopy and Microanalysis</i> , 2016, 22, 1114-1115.	0.4	0
51	Structural Analysis of the <i>Shigella</i> Virus Sf14 Capsid. <i>Microscopy and Microanalysis</i> , 2020, 26, 1306-1306.	0.4	0
52	Structure of the <i>Shigella flexneri</i> podophage HRP29. <i>Microscopy and Microanalysis</i> , 2020, 26, 2744-2744.	0.4	0
53	Bacteriophage Receptor Proteins of Gram-Negative Bacteria. , 2021, , 175-185.		0