

Olve B Peersen

List of Publications by Year in descending order

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46
papers

3,170
citations

186265

28
h-index

233421

45
g-index

50
all docs

50
docs citations

50
times ranked

3931
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Tuning of Ion Binding to Calcium Signaling Proteins. Quarterly Reviews of Biophysics, 1994, 27, 219-290.	5.7	362
2	Remdesivir and SARS-CoV-2: Structural requirements at both nsp12 RdRp and nsp14 Exonuclease active-sites. Antiviral Research, 2020, 178, 104793.	4.1	271
3	Structural basis for active site closure by the poliovirus RNA-dependent RNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22505-22510.	7.1	268
4	Structural basis for proteolysis-dependent activation of the poliovirus RNA-dependent RNA polymerase. EMBO Journal, 2004, 23, 3462-3471.	7.8	211
5	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. Nature Communications, 2020, 11, 4682.	12.8	210
6	Intermolecular tuning of calmodulin by target peptides and proteins: Differential effects on Ca ²⁺ binding and implications for kinase activation. Protein Science, 1997, 6, 794-807.	7.6	148
7	Homology-Based Identification of a Mutation in the Coronavirus RNA-Dependent RNA Polymerase That Confers Resistance to Multiple Mutagens. Journal of Virology, 2016, 90, 7415-7428.	3.4	137
8	Coxsackievirus B3 mutator strains are attenuated in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2294-303.	7.1	129
9	SARS-CoV-2 infection, neuropathogenesis and transmission among deer mice: Implications for spillback to New World rodents. PLoS Pathogens, 2021, 17, e1009585.	4.7	96
10	Structure-Function Relationships Underlying the Replication Fidelity of Viral RNA-Dependent RNA Polymerases. Journal of Virology, 2015, 89, 275-286.	3.4	95
11	Analysis of Flavivirus NS5 Methyltransferase Cap Binding. Journal of Molecular Biology, 2009, 385, 1643-1654.	4.2	83
12	Aurora A kinase phosphorylates Hec1 to regulate metaphase kinetochore-microtubule dynamics. Journal of Cell Biology, 2018, 217, 163-177.	5.2	81
13	Picornaviral polymerase structure, function, and fidelity modulation. Virus Research, 2017, 234, 4-20.	2.2	64
14	Structures of Coxsackievirus, Rhinovirus, and Poliovirus Polymerase Elongation Complexes Solved by Engineering RNA Mediated Crystal Contacts. PLoS ONE, 2013, 8, e60272.	2.5	60
15	Stabilization of Poliovirus Polymerase by NTP Binding and Fingers-Thumb Interactions. Journal of Molecular Biology, 2007, 366, 1459-1474.	4.2	57
16	Analysis of Rotational Resonance Magnetization Exchange Curves from Crystalline Peptides. Journal of the American Chemical Society, 1995, 117, 7228-7237.	13.7	55
17	Rotational resonance NMR measurements of internuclear distances in an .alpha.-helical peptide. Journal of the American Chemical Society, 1992, 114, 4332-4335.	13.7	54
18	Crystal Structure of Coxsackievirus B3 3D ^{pol} Highlights the Functional Importance of Residue 5 in Picornavirus Polymerases. Journal of Virology, 2008, 82, 9458-9464.	3.4	54

#	ARTICLE	IF	CITATIONS
19	Distinct Conformations of a Putative Translocation Element in Poliovirus Polymerase. <i>Journal of Molecular Biology</i> , 2014, 426, 1407-1419.	4.2	48
20	A quantitative stopped-flow fluorescence assay for measuring polymerase elongation rates. <i>Analytical Biochemistry</i> , 2009, 391, 45-55.	2.4	44
21	Attenuation of Foot-and-Mouth Disease Virus by Engineered Viral Polymerase Fidelity. <i>Journal of Virology</i> , 2017, 91, .	3.4	44
22	Superdiffusive motion of membrane-targeting C2 domains. <i>Scientific Reports</i> , 2015, 5, 17721.	3.3	41
23	Design of a Genetically Stable High Fidelity Coxsackievirus B3 Polymerase That Attenuates Virus Growth in Vivo. <i>Journal of Biological Chemistry</i> , 2016, 291, 13999-14011.	3.4	41
24	High-throughput screening identification of poliovirus RNA-dependent RNA polymerase inhibitors. <i>Antiviral Research</i> , 2011, 91, 241-251.	4.1	40
25	A Comprehensive Superposition of Viral Polymerase Structures. <i>Viruses</i> , 2019, 11, 745.	3.3	40
26	Millisecond Time-Scale Folding and Unfolding of DNA Hairpins Using Rapid-Mixing Stopped-Flow Kinetics. <i>Journal of the American Chemical Society</i> , 2012, 134, 2453-2456.	13.7	39
27	Poliovirus Polymerase Leu420 Facilitates RNA Recombination and Ribavirin Resistance. <i>Journal of Virology</i> , 2016, 90, 8410-8421.	3.4	37
28	Temperature Sensitive Mutations in Influenza A Viral Ribonucleoprotein Complex Responsible for the Attenuation of the Live Attenuated Influenza Vaccine. <i>Viruses</i> , 2018, 10, 560.	3.3	36
29	Strange kinetics of bulk-mediated diffusion on lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12633-12641.	2.8	31
30	A Template RNA Entry Channel in the Fingers Domain of the Poliovirus Polymerase. <i>Journal of Molecular Biology</i> , 2012, 417, 263-278.	4.2	28
31	A fluorescence polarization-based screening assay for nucleic acid polymerase elongation activity. <i>Analytical Biochemistry</i> , 2007, 365, 194-200.	2.4	27
32	Nucleotide Channel of RNA-dependent RNA Polymerase used for Intermolecular Uridylylation of Protein Primer. <i>Journal of Molecular Biology</i> , 2006, 357, 665-675.	4.2	26
33	Poliovirus Polymerase Residue 5 Plays a Critical Role in Elongation Complex Stability. <i>Journal of Virology</i> , 2010, 84, 8072-8084.	3.4	24
34	Dimeric structure of the <i>Oxytricha nova</i> telomere end-binding protein $\hat{\pm}$ -subunit bound to ssDNA. <i>Nature Structural Biology</i> , 2002, 9, 182-7.	9.7	21
35	Picornavirus RNA Recombination Counteracts Error Catastrophe. <i>Journal of Virology</i> , 2019, 93, .	3.4	19
36	An in-frame deletion mutation in the degron tail of auxin coreceptor <i>IAA2</i> confers resistance to the herbicide 2,4-D in <i>Sisymbrium orientale</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	19

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37	Structural Features of a Picornavirus Polymerase Involved in the Polyadenylation of Viral RNA. <i>Journal of Virology</i> , 2013, 87, 5629-5644.	3.4	17
38	Peptide Synthesis on a Next-Generation DNA Sequencing Platform. <i>ChemBioChem</i> , 2016, 17, 1628-1635.	2.6	16
39	Novel function of a dynein light chain in actin assembly during clathrin-mediated endocytosis. <i>Journal of Cell Biology</i> , 2017, 216, 2565-2580.	5.2	14
40	Enhanced Cross Polarization in Magic Angle Spinning NMR of Metal Complexes. <i>Inorganic Chemistry</i> , 1995, 34, 1187-1192.	4.0	13
41	Polyprotein Context Regulates the Activity of Poliovirus 2C ^{ATPase} Bound to Bilayer Nanodiscs. <i>Journal of Virology</i> , 2013, 87, 5994-6004.	3.4	10
42	The dynein light chain protein Tda2 functions as a dimerization engine to regulate actin capping protein during endocytosis. <i>Molecular Biology of the Cell</i> , 2021, 32, mbc.E21-01-0032.	2.1	8
43	ATP Is an Allosteric Inhibitor of Coxsackievirus B3 Polymerase. <i>Biochemistry</i> , 2016, 55, 3995-4002.	2.5	4
44	Picornaviral polymerase domain exchanges reveal a modular basis for distinct biochemical activities of viral RNA-dependent RNA polymerases. <i>Journal of Biological Chemistry</i> , 2020, 295, 10624-10637.	3.4	4
45	An Extended Primer Grip of Picornavirus Polymerase Facilitates Sexual RNA Replication Mechanisms. <i>Journal of Virology</i> , 2020, 94, .	3.4	2
46	Editorial overview: Virus replication in animals and plants. <i>Current Opinion in Virology</i> , 2014, 9, iv-v.	5.4	0