Minna M Poranen

List of Publications by Year
in descending order

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50 papers	1,837 citations	257357 24 h-index	289141 40 g-index
52 all docs	52 docs citations	52 times ranked	2136 citing authors

#	Article	IF	Citations
1	Taxonomy of prokaryotic viruses: 2017 update from the ICTV Bacterial and Archaeal Viruses Subcommittee. Archives of Virology, 2018, 163, 1125-1129.	0.9	172
2	Taxonomy of prokaryotic viruses: 2018-2019 update from the ICTV Bacterial and Archaeal Viruses Subcommittee. Archives of Virology, 2020, 165, 1253-1260.	0.9	144
3	Synthetic biology approach for plant protection using ds<scp>RNA</scp>. Plant Biotechnology Journal, 2018, 16, 1679-1687.	4.1	102
4	Common Principles in Viral Entry. Annual Review of Microbiology, 2002, 56, 521-538.	2.9	97
5	RNA Interference as a Prospective Tool for the Control of Human Viral Infections. Frontiers in Microbiology, 2018, 9, 2151.	1.5	78
6	Global Changes in Cellular Gene Expression during Bacteriophage PRD1 Infection. Journal of Virology, 2006, 80, 8081-8088.	1.5	74
7	Elongation-Competent Pauses Govern the Fidelity of a Viral RNA-Dependent RNA Polymerase. Cell Reports, 2015, 10, 983-992.	2.9	72
8	Large-scale production of dsRNA and siRNA pools for RNA interference utilizing bacteriophage Â6 RNA-dependent RNA polymerase. Rna, 2007, 13, 422-429.	1.6	70
9	Taxonomy of prokaryotic viruses: 2016 update from the ICTV bacterial and archaeal viruses subcommittee. Archives of Virology, 2017, 162, 1153-1157.	0.9	57
10	Efficient Double-Stranded RNA Production Methods for Utilization in Plant Virus Control. Methods in Molecular Biology, 2015, 1236, 255-274.	0.4	54
11	Structural explanation for the role of Mn2+ in the activity of Ï•6 RNA-dependent RNA polymerase. Nucleic Acids Research, 2008, 36, 6633-6644.	6.5	48
12	Black box of phageâ€“bacterium interactions: exploring alternative phage infection strategies. Open Biology, 2021, 11, 210188.	1.5	47
13	Innate Immune Responses in Human Monocyte-Derived Dendritic Cells Are Highly Dependent on the Size and the 5â€² Phosphorylation of RNA Molecules. Journal of Immunology, 2011, 187, 1713-1721.	0.4	45
14	High-throughput purification of double-stranded RNA molecules using convective interaction media monolithic anion exchange columns. Journal of Chromatography A, 2013, 1278, 54-60.	1.8	42
15	Initiation of RNA Polymerization and Polymerase Encapsidation by a Small dsRNA Virus. PLoS Pathogens, 2016, 12, e1005523.	2.1	42
16	Automated Structural Comparisons Clarify the Phylogeny of the Right-Hand-Shaped Polymerases. Molecular Biology and Evolution, 2014, 31, 2741-2752.	3.5	41
17	A Novel Virusâ€“Host Cell Membrane Interaction. Journal of Cell Biology, 1999, 147, 671-682.	2.3	40
18	Assembly of Large Icosahedral Double-Stranded RNA Viruses. Advances in Experimental Medicine and Biology, 2012, 726, 379-402.	0.8	39

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19	Assembly of Doubleâ€Stranded RNA Bacteriophages. Advances in Virus Research, 2005, 64, 15-43.	0.9	36
20	Double-stranded RNA virus outer shell assembly by bona fide domain-swapping. Nature Communications, 2017, 8, 14814.	5.8	35
21	Enzymatically Produced Pools of Canonical and Dicer-Substrate siRNA Molecules Display Comparable Gene Silencing and Antiviral Activities against Herpes Simplex Virus. PLoS ONE, 2012, 7, e51019.	1.1	32
22	Noncatalytic Ions Direct the RNA-Dependent RNA Polymerase of Bacterial Double-Stranded RNA Virus Ï•6 from De Novo Initiation to Elongation. Journal of Virology, 2012, 86, 2837-2849.	1.5	31
23	Recognition of six additional cystoviruses: Pseudomonas virus phi6 is no longer the sole species of the family Cystoviridae. Archives of Virology, 2018, 163, 1117-1124.	0.9	31
24	ICTV Virus Taxonomy Profile: Cystoviridae. Journal of General Virology, 2017, 98, 2423-2424.	1.3	29
25	Nontemplated Terminal Nucleotidyltransferase Activity of Double-Stranded RNA Bacteriophage Ï†6 RNA-Dependent RNA Polymerase. Journal of Virology, 2008, 82, 9254-9264.	1.5	24
26	Inhibition of clinical pathogenic herpes simplex virus 1 strains with enzymatically created siRNA pools. Journal of Medical Virology, 2016, 88, 2196-2205.	2.5	23
27	Insights into the pre-initiation events of bacteriophage Ï†6 RNA-dependent RNA polymerase: towards the assembly of a productive binary complex. Nucleic Acids Research, 2009, 37, 1182-1192.	6.5	22
28	MAP kinase p38Î± regulates type III interferon (IFN-Î»1) gene expression in human monocyte-derived dendritic cells in response to RNA stimulation. Journal of Leukocyte Biology, 2015, 97, 307-320.	1.5	22
29	Topical Treatment of Herpes Simplex virus Infection with Enzymatically Created siRNA Swarm. Antiviral Therapy, 2017, 22, 631-637.	0.6	21
30	Structure Unveils Relationships between RNA Virus Polymerases. Viruses, 2021, 13, 313.	1.5	21
31	Synergistic Interferon-Alpha-Based Combinations for Treatment of SARS-CoV-2 and Other Viral Infections. Viruses, 2021, 13, 2489.	1.5	20
32	Packaging and replication regulation revealed by chimeric genome segments of double-stranded RNA bacteriophage Ï†6. Rna, 1999, 5, 446-454.	1.6	18
33	Roles of the Minor Capsid Protein P7 in the Assembly and Replication of Double-Stranded RNA Bacteriophage Ï•6. Journal of Molecular Biology, 2008, 383, 529-538.	2.0	18
34	Innate responses to small interfering RNA pools inhibiting herpes simplex virus infection in astrocytoid and epithelial cells. Innate Immunity, 2015, 21, 349-357.	1.1	17
35	Application of steric exclusion chromatography on monoliths for separation and purification of RNA molecules. Journal of Chromatography A, 2018, 1574, 50-59.	1.8	17
36	Structural comparison strengthens the higher-order classification of proteases related to chymotrypsin. PLoS ONE, 2019, 14, e0216659.	1.1	16

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37	Evidence for a Non-Catalytic Ion-Binding Site in Multiple RNA-Dependent RNA Polymerases. PLoS ONE, 2012, 7, e40581.	1.1	14
38	Evaluation of dsRNA delivery methods for targeting macrophage migration inhibitory factor MIF in RNAi-based aphid control. Journal of Plant Diseases and Protection, 2021, 128, 1201-1212.	1.6	14
39	Microbial production of lipid-protein vesicles using enveloped bacteriophage phi6. Microbial Cell Factories, 2019, 18, 29.	1.9	13
40	Enzymatically synthesized 2â€²-fluoro-modified Dicer-substrate siRNA swarms against herpes simplex virus demonstrate enhanced antiviral efficacy and low cytotoxicity. Antiviral Research, 2020, 182, 104916.	1.9	13
41	Common Structural Core of Three-Dozen Residues Reveals Intersuperfamily Relationships. Molecular Biology and Evolution, 2016, 33, 1697-1710.	3.5	12
42	Herpes Simplex Virus Type 1 Clinical Isolates Respond to UL29-Targeted siRNA Swarm Treatment Independent of Their Acyclovir Sensitivity. Viruses, 2020, 12, 1434.	1.5	12
43	Bacteriophage Ï•6 Nucleocapsid Surface Protein 8 Interacts with Virus-Specific Membrane Vesicles Containing Major Envelope Protein 9. Journal of Virology, 2012, 86, 5376-5379.	1.5	11
44	A Systems Approach to Study Immuno- and Neuro-Modulatory Properties of Antiviral Agents. Viruses, 2018, 10, 423.	1.5	10
45	Efficient Inhibition of Avian and Seasonal Influenza A Viruses by a Virus-Specific Dicer-Substrate Small Interfering RNA Swarm in Human Monocyte-Derived Macrophages and Dendritic Cells. Journal of Virology, 2019, 93, .	1.5	9
46	Dual Role of a Viral Polymerase in Viral Genome Replication and Particle Self-Assembly. MBio, 2018, 9, .	1.8	8
47	Swarms of chemically modified antiviral siRNA targeting herpes simplex virus infection in human corneal epithelial cells. PLoS Pathogens, 2022, 18, e1010688.	2.1	7
48	Native RNA Purification Method for Small RNA Molecules Based on Asymmetrical Flow Field-Flow Fractionation. Pharmaceuticals, 2022, 15, 261.	1.7	6
49	In vitro production of synthetic viral RNAs and their delivery into mammalian cells and the application of viral RNAs in the study of innate interferon responses. Methods, 2020, 183, 21-29.	1.9	4
50	RNA-Dependent RNA Polymerase from Heterobasidion RNA Virus 6 Is an Active Replicase In Vitro. Viruses, 2021, 13, 1738.	1.5	1