

# Alexander E Gorbalenya

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187  
papers

25,662  
citations

78  
h-index

159  
g-index

195  
ext. papers

29,471  
ext. citations

7.9  
avg, IF

8.66  
L-index

#	Paper	IF	Citations
187	N7-Methylation of the Coronavirus RNA Cap Is Required for Maximal Virulence by Preventing Innate Immune Recognition.. <i>MBio</i> , <b>2022</b> , e0366221	7.8	8
186	Translating genomic exploration of the family into confident human polyomavirus detection.. <i>IScience</i> , <b>2022</b> , 25, 103613	6.1	0
185	Genome-wide diversity of Zika virus: Exploring spatio-temporal dynamics to guide a new nomenclature proposal.. <i>Virus Evolution</i> , <b>2022</b> , 8, veac029	3.7	0
184	Bioinformatics of virus taxonomy: foundations and tools for developing sequence-based hierarchical classification. <i>Current Opinion in Virology</i> , <b>2021</b> , 52, 48-56	7.5	1
183	Recognizing species as a new focus of virus research. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009318	7.6	5
182	SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. <i>Nature Microbiology</i> , <b>2021</b> , 6, 821-823	26.6	91
181	Conflicting and ambiguous names of overlapping ORFs in the SARS-CoV-2 genome: A homology-based resolution. <i>Virology</i> , <b>2021</b> , 558, 145-151	3.6	15
180	A nidovirus perspective on SARS-CoV-2. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 538, 24-34	3.4	13
179	Coronavirus replication-transcription complex: Vital and selective NMPylation of a conserved site in nsp9 by the NiRAN-RdRp subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	39
178	Phylogeny of Viruses <b>2021</b> , 116-123		
177	Science, not speculation, is essential to determine how SARS-CoV-2 reached humans. <i>Lancet, The</i> , <b>2021</b> , 398, 209-211	40	7
176	ICTV Virus Taxonomy Profile: 2021. <i>Journal of General Virology</i> , <b>2021</b> , 102,	4.9	12
175	The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. <i>Nature Microbiology</i> , <b>2020</b> , 5, 536-544	26.6	3797
174	How to recognise and deal with dubious virus sequences?. <i>Infection, Genetics and Evolution</i> , <b>2020</b> , 81, 104242	4.5	
173	Statement in support of the scientists, public health professionals, and medical professionals of China combatting COVID-19. <i>Lancet, The</i> , <b>2020</b> , 395, e42-e43	40	133
172	The new scope of virus taxonomy: partitioning the virosphere into 15 hierarchical ranks. <i>Nature Microbiology</i> , <b>2020</b> , 5, 668-674	26.6	87
171	LAMPA, LArge Multidomain Protein Annotator, and its application to RNA virus polyproteins. <i>Bioinformatics</i> , <b>2020</b> , 36, 2731-2739	7.2	2

170	Additional changes to taxonomy ratified in a special vote by the International Committee on Taxonomy of Viruses (October 2018). <i>Archives of Virology</i> , <b>2019</b> , 164, 943-946	2.6	66
169	Structural basis for catalysis and substrate specificity of a 3C-like cysteine protease from a mosquito mesonivirus. <i>Virology</i> , <b>2019</b> , 533, 21-33	3.6	5
168	Taxonomy of Viruses <b>2019</b> ,		3
167	The European Virus Archive goes global: A growing resource for research. <i>Antiviral Research</i> , <b>2018</b> , 158, 127-134	10.8	23
166	A planarian nidovirus expands the limits of RNA genome size. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007314	7.6	68
165	PCR assays for detection of human astroviruses: In silico evaluation and design, and in vitro application to samples collected from patients in the Netherlands. <i>Journal of Clinical Virology</i> , <b>2018</b> , 108, 83-89	14.5	4
164	Increasing the number of available ranks in virus taxonomy from five to ten and adopting the Baltimore classes as taxa at the basal rank. <i>Archives of Virology</i> , <b>2018</b> , 163, 2933-2936	2.6	9
163	Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2018). <i>Archives of Virology</i> , <b>2018</b> , 163, 2601-2631	2.6	187
162	Domain Organization and Evolution of the Highly Divergent 5' Coding Region of Genomes of Arteriviruses, Including the Novel Possum Nidovirus. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	19
161	50 years of the International Committee on Taxonomy of Viruses: progress and prospects. <i>Archives of Virology</i> , <b>2017</b> , 162, 1441-1446	2.6	53
160	Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2017). <i>Archives of Virology</i> , <b>2017</b> , 162, 2505-2538	2.6	398
159	Consensus statement: Virus taxonomy in the age of metagenomics. <i>Nature Reviews Microbiology</i> , <b>2017</b> , 15, 161-168	22.2	375
158	Phylogeny of Viruses ? <b>2017</b> ,		6
157	ICTV Virus Taxonomy Profile: Picornaviridae. <i>Journal of General Virology</i> , <b>2017</b> , 98, 2421-2422	4.9	225
156	Ratification vote on taxonomic proposals to the International Committee on Taxonomy of Viruses (2016). <i>Archives of Virology</i> , <b>2016</b> , 161, 2921-49	2.6	195
155	Limited variation during circulation of a polyomavirus in the human population involves the COCO-VA toggling site of Middle and Alternative T-antigen(s). <i>Virology</i> , <b>2016</b> , 487, 129-40	3.6	8
154	Arterivirus RNA-dependent RNA polymerase: Vital enzymatic activity remains elusive. <i>Virology</i> , <b>2016</b> , 487, 68-74	3.6	8
153	Mutations in Encephalomyocarditis Virus 3A Protein Uncouple the Dependency of Genome Replication on Host Factors Phosphatidylinositol 4-Kinase III $\beta$ and Oxysterol-Binding Protein. <i>MSphere</i> , <b>2016</b> , 1,	5	16

152	Modulation of the Host Lipid Landscape to Promote RNA Virus Replication: The Picornavirus Encephalomyocarditis Virus Converges on the Pathway Used by Hepatitis C Virus. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1005185	7.6	70
151	What we know but do not understand about nidovirus helicases. <i>Virus Research</i> , <b>2015</b> , 202, 12-32	6.4	39
150	Interspecific adaptation by binary choice at de novo polyomavirus T antigen site through accelerated codon-constrained Val-Ala toggling within an intrinsically disordered region. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 4800-13	20.1	10
149	Discovery of an essential nucleotidylating activity associated with a newly delineated conserved domain in the RNA polymerase-containing protein of all nidoviruses. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 8416-34	20.1	139
148	Arterivirus nsp12 versus the coronavirus nsp16 2GO-methyltransferase: comparison of the C-terminal cleavage products of two nidovirus pp1ab polyproteins. <i>Journal of General Virology</i> , <b>2015</b> , 96, 2643-2655	4.9	11
147	One severe acute respiratory syndrome coronavirus protein complex integrates processive RNA polymerase and exonuclease activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3900-9	11.5	344
146	Origin and Evolution of the Picornaviridae Proteome <b>2014</b> , 253-270		
145	Structural basis for the regulatory function of a complex zinc-binding domain in a replicative arterivirus helicase resembling a nonsense-mediated mRNA decay helicase. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 3464-77	20.1	37
144	No novel coronaviruses identified in a large collection of human nasopharyngeal specimens using family-wide CODEHOP-based primers. <i>Archives of Virology</i> , <b>2013</b> , 158, 251-5	2.6	12
143	From Stockholm to Malawi: recent developments in studying human polyomaviruses. <i>Journal of General Virology</i> , <b>2013</b> , 94, 482-496	4.9	63
142	Middle East respiratory syndrome coronavirus (MERS-CoV): announcement of the Coronavirus Study Group. <i>Journal of Virology</i> , <b>2013</b> , 87, 7790-2	6.6	796
141	The footprint of genome architecture in the largest genome expansion in RNA viruses. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003500	7.6	90
140	Arterivirus Papain-like Proteinase 1 <b>2013</b> , 2199-2204		1
139	Arterivirus Papain-like Proteinase 1 <b>2013</b> , 2205-2210		1
138	Arterivirus nsp2 Cysteine Proteinase <b>2013</b> , 2210-2215		1
137	Birnavirus VP4 Processing Endopeptidase <b>2013</b> , 3517-3523		
136	Arterivirus Serine Endopeptidase <b>2013</b> , 3137-3141		
135	Mesoniviridae: a proposed new family in the order Nidovirales formed by a single species of mosquito-borne viruses. <i>Archives of Virology</i> , <b>2012</b> , 157, 1623-8	2.6	89

134	Genomic characterization of a newly discovered coronavirus associated with acute respiratory distress syndrome in humans. <i>MBio</i> , <b>2012</b> , 3,	7.8	632
133	Antagonism of the interferon-induced OAS-RNase L pathway by murine coronavirus ns2 protein is required for virus replication and liver pathology. <i>Cell Host and Microbe</i> , <b>2012</b> , 11, 607-16	23.4	198
132	Comparative analysis of an expanded <i>Clostridium difficile</i> reference strain collection reveals genetic diversity and evolution through six lineages. <i>Infection, Genetics and Evolution</i> , <b>2012</b> , 12, 1577-85	4.5	70
131	Toward genetics-based virus taxonomy: comparative analysis of a genetics-based classification and the taxonomy of picornaviruses. <i>Journal of Virology</i> , <b>2012</b> , 86, 3905-15	6.6	47
130	Genetics-based classification of filoviruses calls for expanded sampling of genomic sequences. <i>Viruses</i> , <b>2012</b> , 4, 1425-37	6.2	21
129	The "Bridge" in the Epstein-Barr virus alkaline exonuclease protein BGLF5 contributes to shutoff activity during productive infection. <i>Journal of Virology</i> , <b>2012</b> , 86, 9175-87	6.6	21
128	Partitioning the genetic diversity of a virus family: approach and evaluation through a case study of picornaviruses. <i>Journal of Virology</i> , <b>2012</b> , 86, 3890-904	6.6	63
127	Design and validation of consensus-degenerate hybrid oligonucleotide primers for broad and sensitive detection of corona- and toroviruses. <i>Journal of Virological Methods</i> , <b>2011</b> , 177, 174-83	2.6	12
126	Identification of tolerated insertion sites in poliovirus non-structural proteins. <i>Virology</i> , <b>2011</b> , 409, 1-11	3.6	16
125	Picornavirus non-structural proteins as targets for new anti-virals with broad activity. <i>Antiviral Research</i> , <b>2011</b> , 89, 204-18	10.8	59
124	Discovery of the first insect nidovirus, a missing evolutionary link in the emergence of the largest RNA virus genomes. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002215	7.6	140
123	Structural basis for antiviral inhibition of the main protease, 3C, from human enterovirus 93. <i>Journal of Virology</i> , <b>2011</b> , 85, 10764-73	6.6	16
122	Papain-like protease 1 from transmissible gastroenteritis virus: crystal structure and enzymatic activity toward viral and cellular substrates. <i>Journal of Virology</i> , <b>2010</b> , 84, 10063-73	6.6	45
121	Discovery of a new human polyomavirus associated with trichodysplasia spinulosa in an immunocompromized patient. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1001024	7.6	339
120	Arterivirus Nsp1 modulates the accumulation of minus-strand templates to control the relative abundance of viral mRNAs. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000772	7.6	51
119	Understanding the alphaviruses: recent research on important emerging pathogens and progress towards their control. <i>Antiviral Research</i> , <b>2010</b> , 87, 111-24	10.8	77
118	Practical application of bioinformatics by the multidisciplinary VIZIER consortium. <i>Antiviral Research</i> , <b>2010</b> , 87, 95-110	10.8	38
117	Genomics and structure/function studies of Rhabdoviridae proteins involved in replication and transcription. <i>Antiviral Research</i> , <b>2010</b> , 87, 149-61	10.8	45

116	Euprosterna elaeasa virus genome sequence and evolution of the Tetraviridae family: emergence of bipartite genomes and conservation of the VPg signal with the dsRNA Birnaviridae family. <i>Virology</i> , <b>2010</b> , 397, 145-54	3.6	24
115	The 2C putative helicase of echovirus 30 adopts a hexameric ring-shaped structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2010</b> , 66, 1116-20		12
114	The crystal structures of Chikungunya and Venezuelan equine encephalitis virus nsP3 macro domains define a conserved adenosine binding pocket. <i>Journal of Virology</i> , <b>2009</b> , 83, 6534-45	6.6	155
113	Biochemical characterization of arterivirus nonstructural protein 11 reveals the nidovirus-wide conservation of a replicative endoribonuclease. <i>Journal of Virology</i> , <b>2009</b> , 83, 5671-82	6.6	82
112	Organ-specific attenuation of murine hepatitis virus strain A59 by replacement of catalytic residues in the putative viral cyclic phosphodiesterase ns2. <i>Journal of Virology</i> , <b>2009</b> , 83, 3743-53	6.6	35
111	SNAD: Sequence Name Annotation-based Designer. <i>BMC Bioinformatics</i> , <b>2009</b> , 10, 251	3.6	6
110	Structure of the C-terminal domain of nsp4 from feline coronavirus. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 839-46		18
109	Structure of the X (ADRP) domain of nsp3 from feline coronavirus. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 1292-300		15
108	Permutation of the active site of putative RNA-dependent RNA polymerase in a newly identified species of plant alpha-like virus. <i>Virology</i> , <b>2009</b> , 394, 1-7	3.6	36
107	Crystal structures of the X-domains of a Group-1 and a Group-3 coronavirus reveal that ADP-ribose-binding may not be a conserved property. <i>Protein Science</i> , <b>2009</b> , 18, 6-16	6.3	33
106	The VIZIER project: preparedness against pathogenic RNA viruses. <i>Antiviral Research</i> , <b>2008</b> , 78, 37-46	10.8	19
105	Functional characterization of the cleavage specificity of the sapovirus chymotrypsin-like protease. <i>Journal of Virology</i> , <b>2008</b> , 82, 8085-93	6.6	12
104	The in vitro RNA synthesizing activity of the isolated arterivirus replication/transcription complex is dependent on a host factor. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 16525-36	5.4	41
103	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2'Ⓣ)-methyltransferase activity. <i>Journal of Virology</i> , <b>2008</b> , 82, 8071-84	6.6	177
102	SARS-coronavirus replication/transcription complexes are membrane-protected and need a host factor for activity in vitro. <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000054	7.6	194
101	Nidovirales <b>2008</b> , 419-430		24
100	Picornavirales, a proposed order of positive-sense single-stranded RNA viruses with a pseudo-T = 3 virion architecture. <i>Archives of Virology</i> , <b>2008</b> , 153, 715-27	2.6	204
99	Enveloped, Positive-Strand RNA Viruses (Nidovirales) <b>2008</b> , 256-266		0

98	Structural and functional characterization of sapovirus RNA-dependent RNA polymerase. <i>Journal of Virology</i> , <b>2007</b> , 81, 1858-71	6.6	58
97	Editorial [Hot Topic: Workshop on the Definition of Protein Domains and their Likelihood of Crystallization (Guest Editors: Oliviero Carugo, Kristina Djinovic, Sasha Gorbalenya and Paul Tucker)]. <i>Current Protein and Peptide Science</i> , <b>2007</b> , 8, 119-120	2.8	2
96	Human coronavirus 229E papain-like proteases have overlapping specificities but distinct functions in viral replication. <i>Journal of Virology</i> , <b>2007</b> , 81, 3922-32	6.6	44
95	Evidence for functional significance of the permuted C motif in Co <sup>2+</sup> -stimulated RNA-dependent RNA polymerase of infectious bursal disease virus. <i>Journal of General Virology</i> , <b>2007</b> , 88, 2824-2833	4.9	10
94	Arterivirus subgenomic mRNA synthesis and virion biogenesis depend on the multifunctional nsp1 autoprotease. <i>Journal of Virology</i> , <b>2007</b> , 81, 10496-505	6.6	44
93	Evidence for emergence of diverse polioviruses from C-cluster coxsackie A viruses and implications for global poliovirus eradication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 9457-62	11.5	80
92	Testing the modularity of the N-terminal amphipathic helix conserved in picornavirus 2C proteins and hepatitis C NS5A protein. <i>Virology</i> , <b>2006</b> , 344, 453-67	3.6	37
91	Evidence for functional protein interactions required for poliovirus RNA replication. <i>Journal of Virology</i> , <b>2006</b> , 80, 5327-37	6.6	39
90	Identification of protease and ADP-ribose 1 <sup>o</sup> monophosphatase activities associated with transmissible gastroenteritis virus non-structural protein 3. <i>Journal of General Virology</i> , <b>2006</b> , 87, 651-658	4.9	40
89	Site-directed mutagenesis of the Nidovirus replicative endoribonuclease NendoU exerts pleiotropic effects on the arterivirus life cycle. <i>Journal of Virology</i> , <b>2006</b> , 80, 1653-61	6.6	74
88	Proteolytic maturation of replicase polyprotein pp1a by the nsp4 main proteinase is essential for equine arteritis virus replication and includes internal cleavage of nsp7. <i>Journal of General Virology</i> , <b>2006</b> , 87, 3473-3482	4.9	83
87	Mutagenesis analysis of the nsp4 main proteinase reveals determinants of arterivirus replicase polyprotein autoprocessing. <i>Journal of Virology</i> , <b>2006</b> , 80, 3428-37	6.6	18
86	Discovery of an RNA virus 3 <sup>o</sup> 5 <sup>o</sup> exoribonuclease that is critically involved in coronavirus RNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 5108-13	11.5	396
85	Nidovirales: evolving the largest RNA virus genome. <i>Virus Research</i> , <b>2006</b> , 117, 17-37	6.4	615
84	Expression, purification, and in vitro activity of an arterivirus main proteinase. <i>Virus Research</i> , <b>2006</b> , 120, 97-106	6.4	12
83	A second, non-canonical RNA-dependent RNA polymerase in SARS coronavirus. <i>EMBO Journal</i> , <b>2006</b> , 25, 4933-42	13	193
82	ADP-ribose-1 <sup>o</sup> -phosphatase activities of the human coronavirus 229E and SARS coronavirus X domains. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 581, 93-6	3.6	8
81	A complex zinc finger controls the enzymatic activities of nidovirus helicases. <i>Journal of Virology</i> , <b>2005</b> , 79, 696-704	6.6	89

80	ADP-ribose-1"-monophosphatase: a conserved coronavirus enzyme that is dispensable for viral replication in tissue culture. <i>Journal of Virology</i> , <b>2005</b> , 79, 12721-31	6.6	122
79	Severe acute respiratory syndrome coronavirus phylogeny: toward consensus. <i>Journal of Virology</i> , <b>2004</b> , 78, 7863-6	6.6	186
78	Temporal modulation of an autoprotease is crucial for replication and pathogenicity of an RNA virus. <i>Journal of Virology</i> , <b>2004</b> , 78, 10765-75	6.6	108
77	Norwalk virus N-terminal nonstructural protein is associated with disassembly of the Golgi complex in transfected cells. <i>Journal of Virology</i> , <b>2004</b> , 78, 4827-37	6.6	66
76	Major genetic marker of nidoviruses encodes a replicative endoribonuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12694-9	11.5	210
75	The severe acute respiratory syndrome-coronavirus replicative protein nsp9 is a single-stranded RNA-binding subunit unique in the RNA virus world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 3792-6	11.5	210
74	The NS5A protein of hepatitis C virus is a zinc metalloprotein. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 48576-87	5.4	267
73	VP1 of infectious bursal disease virus is an RNA-dependent RNA polymerase. <i>Journal of General Virology</i> , <b>2004</b> , 85, 2221-2229	4.9	124
72	The 3C-like proteinase of an invertebrate nidovirus links coronavirus and potyvirus homologs. <i>Journal of Virology</i> , <b>2003</b> , 77, 1415-26	6.6	55
71	A comparative sequence analysis to revise the current taxonomy of the family Coronaviridae. <i>Archives of Virology</i> , <b>2003</b> , 148, 2207-35	2.6	269
70	Unique and conserved features of genome and proteome of SARS-coronavirus, an early split-off from the coronavirus group 2 lineage. <i>Journal of Molecular Biology</i> , <b>2003</b> , 331, 991-1004	6.5	947
69	Mechanisms and enzymes involved in SARS coronavirus genome expression. <i>Journal of General Virology</i> , <b>2003</b> , 84, 2305-2315	4.9	641
68	Molecular analysis of three Ljungan virus isolates reveals a new, close-to-root lineage of the Picornaviridae with a cluster of two unrelated 2A proteins. <i>Journal of Virology</i> , <b>2002</b> , 76, 8920-30	6.6	82
67	Mutational analysis of the active centre of coronavirus 3C-like proteases. <i>Journal of General Virology</i> , <b>2002</b> , 83, 581-593	4.9	57
66	Structure of arterivirus nsp4. The smallest chymotrypsin-like proteinase with an alpha/beta C-terminal extension and alternate conformations of the oxyanion hole. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 39960-6	5.4	63
65	The palm subdomain-based active site is internally permuted in viral RNA-dependent RNA polymerases of an ancient lineage. <i>Journal of Molecular Biology</i> , <b>2002</b> , 324, 47-62	6.5	171
64	Alphavirus nucleocapsid protein contains a putative coiled coil alpha-helix important for core assembly. <i>Journal of Virology</i> , <b>2001</b> , 75, 1-10	6.6	83
63	The autocatalytic release of a putative RNA virus transcription factor from its polyprotein precursor involves two paralogous papain-like proteases that cleave the same peptide bond. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 33220-32	5.4	114



62	A zinc finger-containing papain-like protease couples subgenomic mRNA synthesis to genome translation in a positive-stranded RNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 1889-94	11.5	63
61	Comparison of genomic and predicted amino acid sequences of respiratory and enteric bovine coronaviruses isolated from the same animal with fatal shipping pneumonia. <i>Journal of General Virology</i> , <b>2001</b> , 82, 2927-2933	4.9	64
60	Big Nidovirus Genome. <i>Advances in Experimental Medicine and Biology</i> , <b>2001</b> , 1-17	3.6	48
59	The predicted metal-binding region of the arterivirus helicase protein is involved in subgenomic mRNA synthesis, genome replication, and virion biogenesis. <i>Journal of Virology</i> , <b>2000</b> , 74, 5213-23	6.6	89
58	A non-canonical lon proteinase lacking the ATPase domain employs the ser-Lys catalytic dyad to exercise broad control over the life cycle of a double-stranded RNA virus. <i>EMBO Journal</i> , <b>2000</b> , 19, 114-233	13	153
57	Virus-encoded proteinases and proteolytic processing in the Nidovirales. <i>Journal of General Virology</i> , <b>2000</b> , 81, 853-79	4.9	697
56	Genetics, Pathogenesis and Evolution of Picornaviruses <b>1999</b> , 287-343		45
55	A human RNA viral cysteine proteinase that depends upon a unique Zn <sup>2+</sup> -binding finger connecting the two domains of a papain-like fold. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 14918-25	5.4	57
54	Hepatitis C virus RNA polymerase and NS5A complex with a SNARE-like protein. <i>Virology</i> , <b>1999</b> , 263, 30-416	16	206
53	Proteolytic processing of the open reading frame 1b-encoded part of arterivirus replicase is mediated by nsp4 serine protease and is essential for virus replication. <i>Journal of Virology</i> , <b>1999</b> , 73, 2027-37	6.6	91
52	Non-canonical inteins. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 1741-8	20.1	46
51	The NS5A/NS5 proteins of viruses from three genera of the family flaviviridae are phosphorylated by associated serine/threonine kinases. <i>Journal of Virology</i> , <b>1998</b> , 72, 6199-206	6.6	110
50	Proteolytic processing at the amino terminus of human coronavirus 229E gene 1-encoded polyproteins: identification of a papain-like proteinase and its substrate. <i>Journal of Virology</i> , <b>1998</b> , 72, 910-8	6.6	52
49	Induction of intracellular membrane rearrangements by HAV proteins 2C and 2BC. <i>Virology</i> , <b>1997</b> , 237, 66-77	3.6	83
48	The arterivirus nsp4 protease is the prototype of a novel group of chymotrypsin-like enzymes, the 3C-like serine proteases. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 4864-71	5.4	84
47	Viral cysteine proteinases. <i>Journal of Computer - Aided Molecular Design</i> , <b>1996</b> , 6, 64-86		85
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17	Tentative identification of RNA-dependent RNA polymerases of dsRNA viruses and their relationship to positive strand RNA viral polymerases. <i>FEBS Letters</i> , <b>1989</b> , 252, 42-6	3.8	65
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