

Alexander E Gorbalenya

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#	Paper	IF	Citations
187	The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. <i>Nature Microbiology</i> , 2020 , 5, 536-544	26.6	3797
186	Helicases: amino acid sequence comparisons and structure-function relationships. <i>Current Opinion in Structural Biology</i> , 1993 , 3, 419-429	8.1	962
185	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> , 2003 , 331, 991-1004	6.5	947
184	Two related superfamilies of putative helicases involved in replication, recombination, repair and expression of DNA and RNA genomes. <i>Nucleic Acids Research</i> , 1989 , 17, 4713-30	20.1	882
183	Middle East respiratory syndrome coronavirus (MERS-CoV): announcement of the Coronavirus Study Group. <i>Journal of Virology</i> , 2013 , 87, 7790-2	6.6	796
182	Virus-encoded proteinases and proteolytic processing in the Nidovirales. <i>Journal of General Virology</i> , 2000 , 81, 853-79	4.9	697
181	Mechanisms and enzymes involved in SARS coronavirus genome expression. <i>Journal of General Virology</i> , 2003 , 84, 2305-2315	4.9	641
180	Genomic characterization of a newly discovered coronavirus associated with acute respiratory distress syndrome in humans. <i>MBio</i> , 2012 , 3,	7.8	632
179	Nidovirales: evolving the largest RNA virus genome. <i>Virus Research</i> , 2006 , 117, 17-37	6.4	615
178	Severe acute respiratory syndrome-related coronavirus: The species and its viruses in a statement of the Coronavirus Study Group		508
177	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> , 2017 , 162, 2505-2538	23.6	398
176	Discovery of an RNA virus 3'-5' exoribonuclease that is critically involved in coronavirus RNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5108-13	11.5	396
175	Computer-assisted assignment of functional domains in the nonstructural polyprotein of hepatitis E virus: delineation of an additional group of positive-strand RNA plant and animal viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 8259-63	11.5	385
174	Viral proteins containing the purine NTP-binding sequence pattern. <i>Nucleic Acids Research</i> , 1989 , 17, 8413-40	20.1	378
173	Consensus statement: Virus taxonomy in the age of metagenomics. <i>Nature Reviews Microbiology</i> , 2017 , 15, 161-168	22.2	375
172	Cysteine proteases of positive strand RNA viruses and chymotrypsin-like serine proteases. A distinct protein superfamily with a common structural fold. <i>FEBS Letters</i> , 1989 , 243, 103-14	3.8	346
171	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> , 2014 , 111, E3900-9	11.5	344

170	Discovery of a new human polyomavirus associated with trichodysplasia spinulosa in an immunocompromized patient. <i>PLoS Pathogens</i> , 2010 , 6, e1001024	7.6	339
169	Conservation of the putative methyltransferase domain: a hallmark of the Ω indbis-like Ω supergroup of positive-strand RNA viruses. <i>Journal of General Virology</i> , 1992 , 73 (Pt 8), 2129-34	4.9	303
168	The complete sequence (22 kilobases) of murine coronavirus gene 1 encoding the putative proteases and RNA polymerase. <i>Virology</i> , 1991 , 180, 567-82	3.6	299
167	Putative papain-related thiol proteases of positive-strand RNA viruses. Identification of rubi- and aphthovirus proteases and delineation of a novel conserved domain associated with proteases of rubi-, alpha- and coronaviruses. <i>FEBS Letters</i> , 1991 , 288, 201-5	3.8	281
166	A new superfamily of putative NTP-binding domains encoded by genomes of small DNA and RNA viruses. <i>FEBS Letters</i> , 1990 , 262, 145-8	3.8	276
165	Crystal structure of dimeric HIV-1 capsid protein. <i>Nature Structural and Molecular Biology</i> , 1996 , 3, 763-70	7.6	272
164	A comparative sequence analysis to revise the current taxonomy of the family Coronaviridae. <i>Archives of Virology</i> , 2003 , 148, 2207-35	2.6	269
163	The NS5A protein of hepatitis C virus is a zinc metalloprotein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 48576-87	5.4	267
162	Coronavirus genome: prediction of putative functional domains in the non-structural polyprotein by comparative amino acid sequence analysis. <i>Nucleic Acids Research</i> , 1989 , 17, 4847-61	20.1	255
161	ICTV Virus Taxonomy Profile: Picornaviridae. <i>Journal of General Virology</i> , 2017 , 98, 2421-2422	4.9	225
160	N-terminal domains of putative helicases of flavi- and pestiviruses may be serine proteases. <i>Nucleic Acids Research</i> , 1989 , 17, 3889-97	20.1	215
159	Major genetic marker of nidoviruses encodes a replicative endoribonuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12694-9	11.5	210
158	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> , 2004 , 101, 3792-6	11.5	210
157	A novel superfamily of nucleoside triphosphate-binding motif containing proteins which are probably involved in duplex unwinding in DNA and RNA replication and recombination. <i>FEBS Letters</i> , 1988 , 235, 16-24	3.8	207
156	Hepatitis C virus RNA polymerase and NS5A complex with a SNARE-like protein. <i>Virology</i> , 1999 , 263, 30-41	4.6	206
155	Picornavirales, a proposed order of positive-sense single-stranded RNA viruses with a pseudo-T = 3 virion architecture. <i>Archives of Virology</i> , 2008 , 153, 715-27	2.6	204
154	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> , 2012 , 11, 607-16	23.4	198
153	Ratification vote on taxonomic proposals to the International Committee on Taxonomy of Viruses (2016). <i>Archives of Virology</i> , 2016 , 161, 2921-49	2.6	195

152	SARS-coronavirus replication/transcription complexes are membrane-protected and need a host factor for activity in vitro. <i>PLoS Pathogens</i> , 2008 , 4, e1000054	7.6	194
151	A second, non-canonical RNA-dependent RNA polymerase in SARS coronavirus. <i>EMBO Journal</i> , 2006 , 25, 4933-42	13	193
150	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> , 2018 , 163, 2601-2631	3.6	187
149	Severe acute respiratory syndrome coronavirus phylogeny: toward consensus. <i>Journal of Virology</i> , 2004 , 78, 7863-6	6.6	186
148	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2'-O)-methyltransferase activity. <i>Journal of Virology</i> , 2008 , 82, 8071-84	6.6	177
147	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> , 2002 , 324, 47-62	6.5	171
146	Organization and evolution of bacterial and bacteriophage primase-helicase systems. <i>Journal of Molecular Evolution</i> , 1992 , 34, 351-7	3.1	171
145	An NTP-binding motif is the most conserved sequence in a highly diverged monophyletic group of proteins involved in positive strand RNA viral replication. <i>Journal of Molecular Evolution</i> , 1989 , 28, 256-68	3.1	170
144	The crystal structures of Chikungunya and Venezuelan equine encephalitis virus nsP3 macro domains define a conserved adenosine binding pocket. <i>Journal of Virology</i> , 2009 , 83, 6534-45	6.6	155
143	A conserved NTP-motif in putative helicases. <i>Nature</i> , 1988 , 333, 22	50.4	155
142	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> , 2000 , 19, 114-23	3.3	153
141	Discovery of the first insect nidovirus, a missing evolutionary link in the emergence of the largest RNA virus genomes. <i>PLoS Pathogens</i> , 2011 , 7, e1002215	7.6	140
140	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> , 2015 , 43, 8416-34	20.1	139
139	Statement in support of the scientists, public health professionals, and medical professionals of China combatting COVID-19. <i>Lancet, The</i> , 2020 , 395, e42-e43	40	133
138	VP1 of infectious bursal disease virus is an RNA-dependent RNA polymerase. <i>Journal of General Virology</i> , 2004 , 85, 2221-2229	4.9	124
137	ADP-ribose-1"-monophosphatase: a conserved coronavirus enzyme that is dispensable for viral replication in tissue culture. <i>Journal of Virology</i> , 2005 , 79, 12721-31	6.6	122
136	Superfamily of UvrA-related NTP-binding proteins. Implications for rational classification of recombination/repair systems. <i>Journal of Molecular Biology</i> , 1990 , 213, 583-91	6.5	115
135	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> , 2001 , 276, 33220-32	5.4	114

134	The arterivirus Nsp2 protease. An unusual cysteine protease with primary structure similarities to both papain-like and chymotrypsin-like proteases. <i>Journal of Biological Chemistry</i> , 1995 , 270, 16671-6	5.4	112
133	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> , 1998 , 72, 6199-206	6.6	110
132	Self-splicing group I and group II introns encode homologous (putative) DNA endonucleases of a new family. <i>Protein Science</i> , 1994 , 3, 1117-20	6.3	110
131	Temporal modulation of an autoprotease is crucial for replication and pathogenicity of an RNA virus. <i>Journal of Virology</i> , 2004 , 78, 10765-75	6.6	108
130	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> , 1999 , 73, 2027-37	6.6	91
129	SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. <i>Nature Microbiology</i> , 2021 , 6, 821-823	26.6	91
128	The footprint of genome architecture in the largest genome expansion in RNA viruses. <i>PLoS Pathogens</i> , 2013 , 9, e1003500	7.6	90
127	Mesoniviridae: a proposed new family in the order Nidovirales formed by a single species of mosquito-borne viruses. <i>Archives of Virology</i> , 2012 , 157, 1623-8	2.6	89
126	A complex zinc finger controls the enzymatic activities of nidovirus helicases. <i>Journal of Virology</i> , 2005 , 79, 696-704	6.6	89
125	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> , 2000 , 74, 5213-23	6.6	89
124	Endonuclease (R) subunits of type-I and type-III restriction-modification enzymes contain a helicase-like domain. <i>FEBS Letters</i> , 1991 , 291, 277-81	3.8	88
123	The new scope of virus taxonomy: partitioning the virosphere into 15 hierarchical ranks. <i>Nature Microbiology</i> , 2020 , 5, 668-674	26.6	87
122	Viral cysteine proteinases. <i>Journal of Computer - Aided Molecular Design</i> , 1996 , 6, 64-86		85
121	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> , 1996 , 271, 4864-71	5.4	84
120	Induction of intracellular membrane rearrangements by HAV proteins 2C and 2BC. <i>Virology</i> , 1997 , 237, 66-77	3.6	83
119	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> , 2006 , 87, 3473-3482	4.9	83
118	Alphavirus nucleocapsid protein contains a putative coiled coil alpha-helix important for core assembly. <i>Journal of Virology</i> , 2001 , 75, 1-10	6.6	83
117	Biochemical characterization of arterivirus nonstructural protein 11 reveals the nidovirus-wide conservation of a replicative endoribonuclease. <i>Journal of Virology</i> , 2009 , 83, 5671-82	6.6	82

116	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> , 2002 , 76, 8920-30	6.6	82
115	Poliovirus-encoded proteinase 3C: a possible evolutionary link between cellular serine and cysteine proteinase families. <i>FEBS Letters</i> , 1986 , 194, 253-7	3.8	82
114	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> , 2007 , 104, 9457-62	11.5	80
113	Site-directed mutagenesis of La protease. A catalytically active serine residue. <i>FEBS Letters</i> , 1991 , 287, 211-4	3.8	80
112	Mouse hepatitis virus strain A59 RNA polymerase gene ORF 1a: heterogeneity among MHV strains. <i>Virology</i> , 1994 , 198, 736-40	3.6	78
111	Understanding the alphaviruses: recent research on important emerging pathogens and progress towards their control. <i>Antiviral Research</i> , 2010 , 87, 111-24	10.8	77
110	Genetic studies on the poliovirus 2C protein, an NTPase. A plausible mechanism of guanidine effect on the 2C function and evidence for the importance of 2C oligomerization. <i>Journal of Molecular Biology</i> , 1994 , 236, 1310-23	6.5	75
109	Site-directed mutagenesis of the Nidovirus replicative endoribonuclease NendoU exerts pleiotropic effects on the arterivirus life cycle. <i>Journal of Virology</i> , 2006 , 80, 1653-61	6.6	74
108	Analysis of the functional significance of amino acid residues in the putative NTP-binding pattern of the poliovirus 2C protein. <i>Journal of General Virology</i> , 1992 , 73 (Pt 8), 1977-86	4.9	73
107	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> , 2015 , 11, e1005185	7.6	70
106	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> , 2012 , 12, 1577-85	4.5	70
105	A planarian nidovirus expands the limits of RNA genome size. <i>PLoS Pathogens</i> , 2018 , 14, e1007314	7.6	68
104	Additional changes to taxonomy ratified in a special vote by the International Committee on Taxonomy of Viruses (October 2018). <i>Archives of Virology</i> , 2019 , 164, 943-946	2.6	66
103	Norwalk virus N-terminal nonstructural protein is associated with disassembly of the Golgi complex in transfected cells. <i>Journal of Virology</i> , 2004 , 78, 4827-37	6.6	66
102	Tentative identification of RNA-dependent RNA polymerases of dsRNA viruses and their relationship to positive strand RNA viral polymerases. <i>FEBS Letters</i> , 1989 , 252, 42-6	3.8	65
101	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> , 2001 , 82, 2927-2933	4.9	64
100	From Stockholm to Malawi: recent developments in studying human polyomaviruses. <i>Journal of General Virology</i> , 2013 , 94, 482-496	4.9	63
99	Partitioning the genetic diversity of a virus family: approach and evaluation through a case study of picornaviruses. <i>Journal of Virology</i> , 2012 , 86, 3890-904	6.6	63

98	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> , 2002 , 277, 39960-6	5.4	63
97	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> , 2001 , 98, 1889-94	11.5	63
96	Picornavirus non-structural proteins as targets for new anti-virals with broad activity. <i>Antiviral Research</i> , 2011 , 89, 204-18	10.8	59
95	Structural and functional characterization of sapovirus RNA-dependent RNA polymerase. <i>Journal of Virology</i> , 2007 , 81, 1858-71	6.6	58
94	Mutational analysis of the active centre of coronavirus 3C-like proteases. <i>Journal of General Virology</i> , 2002 , 83, 581-593	4.9	57
93	A human RNA viral cysteine proteinase that depends upon a unique Zn ²⁺ -binding finger connecting the two domains of a papain-like fold. <i>Journal of Biological Chemistry</i> , 1999 , 274, 14918-25	5.4	57
92	The 3C-like proteinase of an invertebrate nidovirus links coronavirus and potyvirus homologs. <i>Journal of Virology</i> , 2003 , 77, 1415-26	6.6	55
91	50 years of the International Committee on Taxonomy of Viruses: progress and prospects. <i>Archives of Virology</i> , 2017 , 162, 1441-1446	2.6	53
90	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> , 1998 , 72, 910-8	6.6	52
89	Arterivirus Nsp1 modulates the accumulation of minus-strand templates to control the relative abundance of viral mRNAs. <i>PLoS Pathogens</i> , 2010 , 6, e1000772	7.6	51
88	Sobemovirus genome appears to encode a serine protease related to cysteine proteases of picornaviruses. <i>FEBS Letters</i> , 1988 , 236, 287-90	3.8	51
87	Encephalomyocarditis virus-specific polypeptide p22 is involved in the processing of the viral precursor polypeptides. <i>FEBS Letters</i> , 1979 , 108, 1-5	3.8	50
86	Big Nidovirus Genome. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 1-17	3.6	48
85	Toward genetics-based virus taxonomy: comparative analysis of a genetics-based classification and the taxonomy of picornaviruses. <i>Journal of Virology</i> , 2012 , 86, 3905-15	6.6	47
84	Non-canonical inteins. <i>Nucleic Acids Research</i> , 1998 , 26, 1741-8	20.1	46
83	Autogenous translation regulation by Escherichia coli ATPase SecA may be mediated by an intrinsic RNA helicase activity of this protein. <i>FEBS Letters</i> , 1992 , 298, 6-8	3.8	46
82	Papain-like protease 1 from transmissible gastroenteritis virus: crystal structure and enzymatic activity toward viral and cellular substrates. <i>Journal of Virology</i> , 2010 , 84, 10063-73	6.6	45
81	Genomics and structure/function studies of Rhabdoviridae proteins involved in replication and transcription. <i>Antiviral Research</i> , 2010 , 87, 149-61	10.8	45

80	Genetics, Pathogenesis and Evolution of Picornaviruses 1999 , 287-343		45
79	Human coronavirus 229E papain-like proteases have overlapping specificities but distinct functions in viral replication. <i>Journal of Virology</i> , 2007 , 81, 3922-32	6.6	44
78	Arterivirus subgenomic mRNA synthesis and virion biogenesis depend on the multifunctional nsp1 autoprotease. <i>Journal of Virology</i> , 2007 , 81, 10496-505	6.6	44
77	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> , 2008 , 283, 16525-36	5.4	41
76	Identification of protease and ADP-ribose 1 ^o monophosphatase activities associated with transmissible gastroenteritis virus non-structural protein 3. <i>Journal of General Virology</i> , 2006 , 87, 651-656	4.9	40
75	What we know but do not understand about nidovirus helicases. <i>Virus Research</i> , 2015 , 202, 12-32	6.4	39
74	Evidence for functional protein interactions required for poliovirus RNA replication. <i>Journal of Virology</i> , 2006 , 80, 5327-37	6.6	39
73	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> , 2021 , 118,	11.5	39
72	Practical application of bioinformatics by the multidisciplinary VIZIER consortium. <i>Antiviral Research</i> , 2010 , 87, 95-110	10.8	38
71	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> , 2014 , 42, 3464-77	20.1	37
70	Testing the modularity of the N-terminal amphipathic helix conserved in picornavirus 2C proteins and hepatitis C NS5A protein. <i>Virology</i> , 2006 , 344, 453-67	3.6	37
69	Permutation of the active site of putative RNA-dependent RNA polymerase in a newly identified species of plant alpha-like virus. <i>Virology</i> , 2009 , 394, 1-7	3.6	36
68	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> , 2009 , 83, 3743-53	6.6	35
67	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> , 2009 , 18, 6-16	6.3	33
66	Encephalomyocarditis virus-specific polypeptide p22 possessing a proteolytic activity: preliminary mapping on the viral genome. <i>FEBS Letters</i> , 1979 , 108, 6-9	3.8	32
65	Birnavirus RNA polymerase is related to polymerases of positive strand RNA viruses. <i>Nucleic Acids Research</i> , 1988 , 16, 7735	20.1	31
64	Evolution of RNA genomes: does the high mutation rate necessitate high rate of evolution of viral proteins?. <i>Journal of Molecular Evolution</i> , 1989 , 28, 524-7	3.1	26
63	One more conserved sequence motif in helicases. <i>Nucleic Acids Research</i> , 1988 , 16, 7734	20.1	26

62	Euprosterina 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> , 2010 , 397, 145-54	3.6	24
61	Nidovirales 2008 , 419-430		24
60	The European Virus Archive goes global: A growing resource for research. <i>Antiviral Research</i> , 2018 , 158, 127-134	10.8	23
59	Genetics-based classification of filoviruses calls for expanded sampling of genomic sequences. <i>Viruses</i> , 2012 , 4, 1425-37	6.2	21
58	The "Bridge" in the Epstein-Barr virus alkaline exonuclease protein BGLF5 contributes to shutoff activity during productive infection. <i>Journal of Virology</i> , 2012 , 86, 9175-87	6.6	21
57	Related domains in yeast tRNA ligase, bacteriophage T4 polynucleotide kinase and RNA ligase, and mammalian myelin 2'3'-cyclic nucleotide phosphohydrolase revealed by amino acid sequence comparison. <i>FEBS Letters</i> , 1990 , 268, 231-4	3.8	21
56	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> , 2017 , 91,	6.6	19
55	The VIZIER project: preparedness against pathogenic RNA viruses. <i>Antiviral Research</i> , 2008 , 78, 37-46	10.8	19
54	Structure of the C-terminal domain of nsp4 from feline coronavirus. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 839-46		18
53	Mutagenesis analysis of the nsp4 main proteinase reveals determinants of arterivirus replicase polyprotein autoprocessing. <i>Journal of Virology</i> , 2006 , 80, 3428-37	6.6	18
52	An insect picornavirus may have genome organization similar to that of caliciviruses. <i>FEBS Letters</i> , 1992 , 297, 81-6	3.8	18
51	Cloning and sequence analysis of cDNA for a human homolog of eubacterial ATP-dependent Lon proteases. <i>FEBS Letters</i> , 1994 , 340, 25-8	3.8	17
50	Identification of tolerated insertion sites in poliovirus non-structural proteins. <i>Virology</i> , 2011 , 409, 1-11	3.6	16
49	Structural basis for antiviral inhibition of the main protease, 3C, from human enterovirus 93. <i>Journal of Virology</i> , 2011 , 85, 10764-73	6.6	16
48	Mutations in Encephalomyocarditis Virus 3A Protein Uncouple the Dependency of Genome Replication on Host Factors Phosphatidylinositol 4-Kinase III β and Oxysterol-Binding Protein. <i>MSphere</i> , 2016 , 1,	5	16
47	Structure of the X (ADRP) domain of nsp3 from feline coronavirus. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 1292-300		15
46	Construction of the full local similarity map for two biopolymers. <i>BioSystems</i> , 1993 , 30, 57-63	1.9	15
45	Conflicting and ambiguous names of overlapping ORFs in the SARS-CoV-2 genome: A homology-based resolution. <i>Virology</i> , 2021 , 558, 145-151	3.6	15

44	Proteolytic activity of the nonstructural polypeptide p22 of encephalomyocarditis virus. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 98, 952-60	3.4	14
43	RNA-binding properties of nonstructural polypeptide G of encephalomyocarditis virus. <i>Virology</i> , 1978 , 88, 183-5	3.6	13
42	A nidovirus perspective on SARS-CoV-2. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 538, 24-34	3.4	13
41	No novel coronaviruses identified in a large collection of human nasopharyngeal specimens using family-wide CODEHOP-based primers. <i>Archives of Virology</i> , 2013 , 158, 251-5	2.6	12
40	Design and validation of consensus-degenerate hybrid oligonucleotide primers for broad and sensitive detection of corona- and toroviruses. <i>Journal of Virological Methods</i> , 2011 , 177, 174-83	2.6	12
39	The 2C putative helicase of echovirus 30 adopts a hexameric ring-shaped structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1116-20		12
38	Functional characterization of the cleavage specificity of the sapovirus chymotrypsin-like protease. <i>Journal of Virology</i> , 2008 , 82, 8085-93	6.6	12
37	Expression, purification, and in vitro activity of an arterivirus main proteinase. <i>Virus Research</i> , 2006 , 120, 97-106	6.4	12
36	Origin of RNA viral genomes; approaching the problem by comparative sequence analysis 1995 , 49-66		12
35	ICTV Virus Taxonomy Profile: 2021. <i>Journal of General Virology</i> , 2021 , 102,	4.9	12
34	Tale of two serines. <i>Nature</i> , 1989 , 338, 467-8	50.4	11
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