Mart Krupovic

List of Publications by Year in Descending Order

215 papers	9,893 citations	57 h-index	90 g-index
254 ext. papers	13,686 ext. citations	9.7 avg, IF	7.01 L-index

#	Paper	IF	Citations
215	Differentiating between viruses and virus species by writing their names correctly.. *Archives of Virology*, **2022**, 167, 1231	2.6	5
214	A newly emerging alphasatellite affects banana bunchy top virus replication, transcription, siRNA production and transmission by aphids.. *PLoS Pathogens*, **2022**, 18, e1010448	7.6	0
213	Diversity, taxonomy, and evolution of archaeal viruses of the class Caudoviricetes. *PLoS Biology*, **2021**, 19, e3001442	9.7	3
212	Perspective on taxonomic classification of uncultivated viruses. *Current Opinion in Virology*, **2021**, 51, 207-215	7.5	5
211	The first head-tailed virus, MFTV1, infecting hyperthermophilic methanogenic deep-sea archaea. *Environmental Microbiology*, **2021**, 23, 3614-3626	5.2	3
210	Virus-induced cell gigantism and asymmetric cell division in archaea. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
209	Near-atomic structure of an atadenovirus reveals a conserved capsid-binding motif and intergenera variations in cementing proteins. *Science Advances*, **2021**, 7,	14.3	3
208	ICTV Virus Taxonomy Profile:. *Journal of General Virology*, **2021**, 102,	4.9	3
207	Archaeal extracellular vesicles are produced in an ESCRT-dependent manner and promote gene transfer and nutrient cycling in extreme environments. *ISME Journal*, **2021**, 15, 2892-2905	11.9	10
206	The healthy human virome: from virus-host symbiosis to disease. *Current Opinion in Virology*, **2021**, 47, 86-94	7.5	9
205	ICTV Virus Taxonomy Profile:. *Journal of General Virology*, **2021**, 102,	4.9	1
204	Going to extremes - a metagenomic journey into the dark matter of life. *FEMS Microbiology Letters*, **2021**, 368,	2.9	7
203	: a New Realm for Archaeal Filamentous Viruses with Linear A-Form Double-Stranded DNA Genomes. *Journal of Virology*, **2021**, 95, e0067321	6.6	9
202	Plant Satellite Viruses (Albetovirus, Aumaivirus, Papanivirus, Virtovirus) **2021**, 581-585		2
201	Virus⊞ost Interactions in Archaea **2021**, 387-399		
200	Changes to virus taxonomy and to the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2021). *Archives of Virology*, **2021**, 166, 2633-2648	2.6	52
199	New insights into the diversity and evolution of the archaeal mobilome from three complete genomes of Saccharolobus shibatae. *Environmental Microbiology*, **2021**, 23, 4612-4630	5.2	0

198	Family Genomoviridae: 2021 taxonomy update. *Archives of Virology*, **2021**, 166, 2911-2926	2.6	5
197	Bacterial Viruses Subcommittee and Archaeal Viruses Subcommittee of the ICTV: update of taxonomy changes in 2021. *Archives of Virology*, **2021**, 166, 3239-3244	2.6	5
196	Clandestinovirus: A Giant Virus With Chromatin Proteins and a Potential to Manipulate the Cell Cycle of Its Host. *Frontiers in Microbiology*, **2021**, 12, 715608	5.7	4
195	The Baltimore Classification of Viruses 50 Years Later: How Does It Stand in the Light of Virus Evolution?. *Microbiology and Molecular Biology Reviews*, **2021**, 85, e0005321	13.2	7
194	A filamentous archaeal virus is enveloped inside the cell and released through pyramidal portals. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
193	2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. *Archives of Virology*, **2021**, 166, 3513-3566	2.6	10
192	Viruses Defined by the Position of the Virosphere within the Replicator Space. *Microbiology and Molecular Biology Reviews*, **2021**, e0019320	13.2	7
191	A 2021 taxonomy update for the family Smacoviridae. *Archives of Virology*, **2021**, 166, 3245-3253	2.6	2
190	Reverse-Transcribing Viruses (Belpaoviridae, Metaviridae, and Pseudoviridae) **2021**, 653-666		
189	Diversity of Hyperthermophilic Archaeal Viruses **2021**, 359-367		
188	Extracellular membrane vesicles and nanotubes in Archaea. *MicroLife*, **2021**, 2,	5	3
187	Deep Roots and Splendid Boughs of the Global Plant Virome. *Annual Review of Phytopathology*, **2020**, 58, 23-53	10.8	27
186	ORF4 of the Temperate Archaeal Virus SNJ1 Governs the Lysis-Lysogeny Switch and Superinfection Immunity. *Journal of Virology*, **2020**, 94,	6.6	3
185	The replication machinery of LUCA: common origin of DNA replication and transcription. *BMC Biology*, **2020**, 18, 61	7.3	22
184	Taxonomy of prokaryotic viruses: 2018-2019 update from the ICTV Bacterial and Archaeal Viruses Subcommittee. *Archives of Virology*, **2020**, 165, 1253-1260	2.6	66
183	Global Organization and Proposed Megataxonomy of the Virus World. *Microbiology and Molecular Biology Reviews*, **2020**, 84,	13.2	178
182	An anti-CRISPR viral ring nuclease subverts type III CRISPR immunity. *Nature*, **2020**, 577, 572-575	50.4	69
181	Reply to Ku and Sun: Ancestors of modern giant and large eukaryotic dsDNA viruses infected proto-eukaryotes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2749-2750	11.5	

180	Expanding the type IIB DNA topoisomerase family: identification of new topoisomerase and topoisomerase-like proteins in mobile genetic elements. *NAR Genomics and Bioinformatics*, **2020**, 2, lqz021	3.7	4
179	: a Virus Phylum Unifying Seven Families of Rep-Encoding Viruses with Single-Stranded, Circular DNA Genomes. *Journal of Virology*, **2020**, 94,	6.6	47
178	The new scope of virus taxonomy: partitioning the virosphere into 15 hierarchical ranks. *Nature Microbiology*, **2020**, 5, 668-674	26.6	87
177	ICTV Virus Taxonomy Profile:. *Journal of General Virology*, **2020**, 101, 240-241	4.9	2
176	ICTV Virus Taxonomy Profile:. *Journal of General Virology*, **2020**, 101, 1131-1132	4.9	4
175	Phages build anti-defence barriers. *Nature Microbiology*, **2020**, 5, 8-9	26.6	4
174	Binomial nomenclature for virus species: a consultation. *Archives of Virology*, **2020**, 165, 519-525	2.6	27
173	Diversity and evolution of B-family DNA polymerases. *Nucleic Acids Research*, **2020**, 48, 10142-10156	20.1	15
172	Evolution of a major virion protein of the giant pandoraviruses from an inactivated bacterial glycoside hydrolase. *Virus Evolution*, **2020**, 6, veaa059	3.7	8
171	Doubling of the known set of RNA viruses by metagenomic analysis of an aquatic virome. *Nature Microbiology*, **2020**, 5, 1262-1270	26.6	50
170	Isolation and Characterization of Bacteriophages That Infect , a Model Pathogen for Intestinal Diseases. *Viruses*, **2020**, 12,	6.2	8
169	The LUCA and its complex virome. *Nature Reviews Microbiology*, **2020**, 18, 661-670	22.2	27
168	Structure of a filamentous virus uncovers familial ties within the archaeal virosphere. *Virus Evolution*, **2020**, 6, veaa023	3.7	11
167	The structures of two archaeal type IV pili illuminate evolutionary relationships. *Nature Communications*, **2020**, 11, 3424	17.4	7
166	Structures of filamentous viruses infecting hyperthermophilic archaea explain DNA stabilization in extreme environments. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 19643-19652	11.5	14
165	Structure and assembly of archaeal viruses. *Advances in Virus Research*, **2020**, 108, 127-164	10.7	8
164	Analysis of Spounaviruses as a Case Study for the Overdue Reclassification of Tailed Phages. *Systematic Biology*, **2020**, 69, 110-123	8.4	56
163	Evolutionary entanglement of mobile genetic elements and host defence systems: guns for hire. *Nature Reviews Genetics*, **2020**, 21, 119-131	30.1	77

162	New virus isolates from Italian hydrothermal environments underscore the biogeographic pattern in archaeal virus communities. *ISME Journal*, **2020**, 14, 1821-1833	11.9	13
161	Classify viruses - the gain is worth the pain. *Nature*, **2019**, 566, 318-320	50.4	78
160	Origin of programmed cell death from antiviral defense?. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16167-16169	11.5	5
159	Diversification of giant and large eukaryotic dsDNA viruses predated the origin of modern eukaryotes. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19585-19592	11.5	62
158	Additional changes to taxonomy ratified in a special vote by the International Committee on Taxonomy of Viruses (October 2018). *Archives of Virology*, **2019**, 164, 943-946	2.6	66
157	Origin of viruses: primordial replicators recruiting capsids from hosts. *Nature Reviews Microbiology*, **2019**, 17, 449-458	22.2	85
156	Sequence motifs recognized by the casposon integrase of Aciduliprofundum boonei. *Nucleic Acids Research*, **2019**, 47, 6386-6395	20.1	4
155	Changes to virus taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2019). *Archives of Virology*, **2019**, 164, 2417-2429	2.6	171
154	An extensively glycosylated archaeal pilus survives extreme conditions. *Nature Microbiology*, **2019**, 4, 1401-1410	26.6	21
153	Taxonomic assignment of uncultivated prokaryotic virus genomes is enabled by gene-sharing networks. *Nature Biotechnology*, **2019**, 37, 632-639	44.5	201
152	Reply to Holmes and Duchêne, "Can Sequence Phylogenies Safely Infer the Origin of the Global Virome?": Deep Phylogenetic Analysis of RNA Viruses Is Highly Challenging but Not Meaningless. *MBio*, **2019**, 10,	7.8	9
151	Novel haloarchaeal viruses from Lake Retba infecting Haloferax and Halorubrum species. *Environmental Microbiology*, **2019**, 21, 2129-2147	5.2	11
150	Numerous cultivated and uncultivated viruses encode ribosomal proteins. *Nature Communications*, **2019**, 10, 752	17.4	49
149	Multiple origins of prokaryotic and eukaryotic single-stranded DNA viruses from bacterial and archaeal plasmids. *Nature Communications*, **2019**, 10, 3425	17.4	55
148	Spindle-shaped viruses infect marine ammonia-oxidizing thaumarchaea. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15645-15650	11.5	21
147	Cryptic inoviruses revealed as pervasive in bacteria and archaea across Earth's biomes. *Nature Microbiology*, **2019**, 4, 1895-1906	26.6	99
146	A packing for A-form DNA in an icosahedral virus. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22591-22597	11.5	17
145	ICTV Virus Taxonomy Profile: Tristromaviridae. *Journal of General Virology*, **2019**, 100, 135-136	4.9	6

144	ICTV Virus Taxonomy Profile:. *Journal of General Virology*, **2019**, 100, 1267-1268	4.9	2
143	Integrated mobile genetic elements in Thaumarchaeota. *Environmental Microbiology*, **2019**, 21, 2056-2078	5.2	19
142	Virus-borne mini-CRISPR arrays are involved in interviral conflicts. *Nature Communications*, **2019**, 10, 5204	17.4	27
141	Minimum Information about an Uncultivated Virus Genome (MIUViG). *Nature Biotechnology*, **2019**, 37, 29-37	44.5	180
140	Strengthening the Interaction of the Virology Community with the International Committee on Taxonomy of Viruses (ICTV) by Linking Virus Names and Their Abbreviations to Virus Species. *Systematic Biology*, **2019**, 68, 828-839	8.4	5
139	New archaeal viruses discovered by metagenomic analysis of viral communities in enrichment cultures. *Environmental Microbiology*, **2019**, 21, 2002-2014	5.2	11
138	Taxonomy of the family Arenaviridae and the order Bunyavirales: update 2018. *Archives of Virology*, **2018**, 163, 2295-2310	2.6	108
137	Ortervirales: New Virus Order Unifying Five Families of Reverse-Transcribing Viruses. *Journal of Virology*, **2018**, 92,	6.6	56
136	Taxonomy of the order Mononegavirales: update 2018. *Archives of Virology*, **2018**, 163, 2283-2294	2.6	111
135	A novel family of tyrosine integrases encoded by the temperate pleolipovirus SNJ2. *Nucleic Acids Research*, **2018**, 46, 2521-2536	20.1	19
134	Taxonomy of prokaryotic viruses: 2017 update from the ICTV Bacterial and Archaeal Viruses Subcommittee. *Archives of Virology*, **2018**, 163, 1125-1129	2.6	62
133	History of CRISPR-Cas from Encounter with a Mysterious Repeated Sequence to Genome Editing Technology. *Journal of Bacteriology*, **2018**, 200,	3.5	149
132	Novel Families of Archaeo-Eukaryotic Primases Associated with Mobile Genetic Elements of Bacteria and Archaea. *Journal of Molecular Biology*, **2018**, 430, 737-750	6.5	22
131	Vast diversity of prokaryotic virus genomes encoding double jelly-roll major capsid proteins uncovered by genomic and metagenomic sequence analysis. *Virology Journal*, **2018**, 15, 67	6.1	35
130	Smacoviridae: a new family of animal-associated single-stranded DNA viruses. *Archives of Virology*, **2018**, 163, 2005-2015	2.6	39
129	The depths of virus exaptation. *Current Opinion in Virology*, **2018**, 31, 1-8	7.5	41
128	Nitrosocaldus cavascurensis, an Ammonia Oxidizing, Extremely Thermophilic Archaeon with a Highly Mobile Genome. *Frontiers in Microbiology*, **2018**, 9, 28	5.7	51
127	Bacteriophage GC1, a Novel Tectivirus Infecting Gluconobacter Cerinus, an Acetic Acid Bacterium Associated with Wine-Making. *Viruses*, **2018**, 10,	6.2	19

126	Pervasive Chimerism in the Replication-Associated Proteins of Uncultured Single-Stranded DNA Viruses. *Viruses*, **2018**, 10,	6.2	36
125	Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. *Nature Communications*, **2018**, 9, 3360	17.4	18
124	Rolling-circle replication initiation protein of haloarchaeal sphaerolipovirus SNJ1 is homologous to bacterial transposases of the IS family insertion sequences. *Journal of General Virology*, **2018**, 99, 416-421	4.9	7
123	ICTV Virus Taxonomy Profile: Ampullaviridae. *Journal of General Virology*, **2018**, 99, 288-289	4.9	3
122	ICTV Virus Taxonomy Profile: Guttaviridae. *Journal of General Virology*, **2018**, 99, 290-291	4.9	6
121	ICTV Virus Taxonomy Profile: Plasmaviridae. *Journal of General Virology*, **2018**, 99, 617-618	4.9	8
120	ICTV Virus Taxonomy Profile: Bicaudaviridae. *Journal of General Virology*, **2018**, 99, 864-865	4.9	5
119	ICTV Virus Taxonomy Profile: Globuloviridae. *Journal of General Virology*, **2018**, 99, 1357-1358	4.9	3
118	Viruses of archaea: Structural, functional, environmental and evolutionary genomics. *Virus Research* , **2018**, 244, 181-193	6.4	107
117	Discovery of an expansive bacteriophage family that includes the most abundant viruses from the human gut. *Nature Microbiology*, **2018**, 3, 38-46	26.6	148
116	Origins and Evolution of the Global RNA Virome. *MBio*, **2018**, 9,	7.8	219
115	Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2018). *Archives of Virology*, **2018**, 163, 2601-2631	2.6	187
114	Multiple origins of viral capsid proteins from cellular ancestors. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2401-E2410	11.5	140
113	Evolutionary history of ssDNA bacilladnaviruses features horizontal acquisition of the capsid gene from ssRNA nodaviruses. *Virology*, **2017**, 504, 114-121	3.6	35
112	A Novel Type of Polyhedral Viruses Infecting Hyperthermophilic Archaea. *Journal of Virology*, **2017**, 91,	6.6	18
111	50 years of the International Committee on Taxonomy of Viruses: progress and prospects. *Archives of Virology*, **2017**, 162, 1441-1446	2.6	53
110	A network perspective on the virus world. *Communicative and Integrative Biology*, **2017**, 10, e1296614	1.7	24
109	Casposons: mobile genetic elements that gave rise to the CRISPR-Cas adaptation machinery. *Current Opinion in Microbiology*, **2017**, 38, 36-43	7.9	62

108	Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2017). *Archives of Virology*, **2017**, 162, 2505-2538	2.6	398
107	Homologous Capsid Proteins Testify to the Common Ancestry of Retroviruses, Caulimoviruses, Pseudoviruses, and Metaviruses. *Journal of Virology*, **2017**, 91,	6.6	21
106	Consensus statement: Virus taxonomy in the age of metagenomics. *Nature Reviews Microbiology*, **2017**, 15, 161-168	22.2	375
105	Cellular origin of the viral capsid-like bacterial microcompartments. *Biology Direct*, **2017**, 12, 25	7.2	8
104	Sequence-based taxonomic framework for the classification of uncultured single-stranded DNA viruses of the family. *Virus Evolution*, **2017**, 3, vew037	3.7	67
103	Possibility and Challenges of Conversion of Current Virus Species Names to Linnaean Binomials. *Systematic Biology*, **2017**, 66, 463-473	8.4	12
102	The enigmatic archaeal virosphere. *Nature Reviews Microbiology*, **2017**, 15, 724-739	22.2	102
101	Unique architecture of thermophilic archaeal virus APBV1 and its genome packaging. *Nature Communications*, **2017**, 8, 1436	17.4	21
100	Primer-Independent DNA Synthesis by a Family B DNA Polymerase from Self-Replicating Mobile Genetic Elements. *Cell Reports*, **2017**, 21, 1574-1587	10.6	10
99	Taxonomy of prokaryotic viruses: 2016 update from the ICTV bacterial and archaeal viruses subcommittee. *Archives of Virology*, **2017**, 162, 1153-1157	2.6	38
98	Polintons, virophages and transpovirons: a tangled web linking viruses, transposons and immunity. *Current Opinion in Virology*, **2017**, 25, 7-15	7.5	35
97	Model for a novel membrane envelope in a filamentous hyperthermophilic virus. *ELife*, **2017**, 6,	8.9	32
96	A classification system for virophages and satellite viruses. *Archives of Virology*, **2016**, 161, 233-47	2.6	52
95	Abundant Lysine Methylation and N-Terminal Acetylation in Sulfolobus islandicus Revealed by Bottom-Up and Top-Down Proteomics. *Molecular and Cellular Proteomics*, **2016**, 15, 3388-3404	7.6	23
94	Ratification vote on taxonomic proposals to the International Committee on Taxonomy of Viruses (2016). *Archives of Virology*, **2016**, 161, 2921-49	2.6	195
93	Virus-mediated archaeal hecatomb in the deep seafloor. *Science Advances*, **2016**, 2, e1600492	14.3	63
92	The Double-Stranded DNA Virosphere as a Modular Hierarchical Network of Gene Sharing. *MBio*, **2016**, 7,	7.8	115
91	Genomoviridae: a new family of widespread single-stranded DNA viruses. *Archives of Virology*, **2016**, 161, 2633-43	2.6	104

90	Recent Mobility of Casposons, Self-Synthesizing Transposons at the Origin of the CRISPR-Cas Immunity. *Genome Biology and Evolution*, **2016**, 8, 375-86	3.9	26
89	A virus of hyperthermophilic archaea with a unique architecture among DNA viruses. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2478-83	11.5	28
88	Self-synthesizing transposons: unexpected key players in the evolution of viruses and defense systems. *Current Opinion in Microbiology*, **2016**, 31, 25-33	7.9	46
87	Taxonomy of prokaryotic viruses: update from the ICTV bacterial and archaeal viruses subcommittee. *Archives of Virology*, **2016**, 161, 1095-9	2.6	67
86	Diversity and comparative genomics of chimeric viruses in dominated peatlands. *Virus Evolution*, **2016**, 2, vew025	3.7	14
85	Fusion of a superfamily 1 helicase and an inactivated DNA polymerase is a signature of common evolutionary history of Polintons, polinton-like viruses, Tlr1 transposons and transpovirons. *Virus Evolution*, **2016**, 2, vew019	3.7	8
84	Identification, Characterization, and Application of the Replicon Region of the Halophilic Temperate Sphaerolipovirus SNJ1. *Journal of Bacteriology*, **2016**, 198, 1952-1964	3.5	12
83	Virology: A parasite's parasite saves host's neighbours. *Nature*, **2016**, 540, 204-205	50.4	9
82	The logic of DNA replication in double-stranded DNA viruses: insights from global analysis of viral genomes. *Nucleic Acids Research*, **2016**, 44, 4551-64	20.1	47
81	Bipartite Network Analysis of the Archaeal Virosphere: Evolutionary Connections between Viruses and Capsidless Mobile Elements. *Journal of Virology*, **2016**, 90, 11043-11055	6.6	65
80	Eukaryotic-Like Virus Budding in Archaea. *MBio*, **2016**, 7,	7.8	48
79	Casposon integration shows strong target site preference and recapitulates protospacer integration by CRISPR-Cas systems. *Nucleic Acids Research*, **2016**, 44, 10367-10376	20.1	30
78	Plant viruses of the Amalgaviridae family evolved via recombination between viruses with double-stranded and negative-strand RNA genomes. *Biology Direct*, **2015**, 10, 12	7.2	33
77	Evolution of double-stranded DNA viruses of eukaryotes: from bacteriophages to transposons to giant viruses. *Annals of the New York Academy of Sciences*, **2015**, 1341, 10-24	6.5	68
76	Origins and evolution of viruses of eukaryotes: The ultimate modularity. *Virology*, **2015**, 479-480, 2-25	3.6	309
75	Sulfolobus Spindle-Shaped Virus 1 Contains Glycosylated Capsid Proteins, a Cellular Chromatin Protein, and Host-Derived Lipids. *Journal of Virology*, **2015**, 89, 11681-91	6.6	34
74	Mysterious hexagonal pyramids on the surface of Pyrobaculum cells. *Biochimie*, **2015**, 118, 365-7	4.6	9
73	Polintons: a hotbed of eukaryotic virus, transposon and plasmid evolution. *Nature Reviews Microbiology*, **2015**, 13, 105-15	22.2	116

72	Evolution of adaptive immunity from transposable elements combined with innate immune systems. *Nature Reviews Genetics*, **2015**, 16, 184-92	30.1	110
71	Membrane vesicles in natural environments: a major challenge in viral ecology. *ISME Journal*, **2015**, 9, 793-6	11.9	49
70	A novel group of diverse Polinton-like viruses discovered by metagenome analysis. *BMC Biology*, **2015**, 13, 95	7.3	41
69	Evolution of an archaeal virus nucleocapsid protein from the CRISPR-associated Cas4 nuclease. *Biology Direct*, **2015**, 10, 65	7.2	14
68	Virology. A virus that infects a hyperthermophile encapsidates A-form DNA. *Science*, **2015**, 348, 914-7	33.3	79
67	Multiple layers of chimerism in a single-stranded DNA virus discovered by deep sequencing. *Genome Biology and Evolution*, **2015**, 7, 993-1001	3.9	33
66	Single-stranded DNA viruses employ a variety of mechanisms for integration into host genomes. *Annals of the New York Academy of Sciences*, **2015**, 1341, 41-53	6.5	46
65	Extracellular membrane vesicles harbouring viral genomes. *Environmental Microbiology*, **2014**, 16, 1167-75	5.2	57
64	Dark matter in archaeal genomes: a rich source of novel mobile elements, defense systems and secretory complexes. *Extremophiles*, **2014**, 18, 877-93	3	43
63	Cellular domains and viral lineages. *Trends in Microbiology*, **2014**, 22, 554-8	12.4	40
62	Casposons: a new superfamily of self-synthesizing DNA transposons at the origin of prokaryotic CRISPR-Cas immunity. *BMC Biology*, **2014**, 12, 36	7.3	122
61	Conservation of major and minor jelly-roll capsid proteins in Polinton (Maverick) transposons suggests that they are bona fide viruses. *Biology Direct*, **2014**, 9, 6	7.2	66
60	Unification of the globally distributed spindle-shaped viruses of the Archaea. *Journal of Virology*, **2014**, 88, 2354-8	6.6	52
59	Plasmids from Euryarchaeota. *Microbiology Spectrum*, **2014**, 2,	8.9	13
58	Evolution of eukaryotic single-stranded DNA viruses of the Bidnaviridae family from genes of four other groups of widely different viruses. *Scientific Reports*, **2014**, 4, 5347	4.9	48
57	Evolution of replicative DNA polymerases in archaea and their contributions to the eukaryotic replication machinery. *Frontiers in Microbiology*, **2014**, 5, 354	5.7	51
56	DNA topoisomerase VIII: a novel subfamily of type IIB topoisomerases encoded by free or integrated plasmids in Archaea and Bacteria. *Nucleic Acids Research*, **2014**, 42, 8578-91	20.1	18
55	A highly divergent archaeo-eukaryotic primase from the Thermococcus nautilus plasmid, pTN2. *Nucleic Acids Research*, **2014**, 42, 3707-19	20.1	23

54	Hard out there: understanding archaeal virus biology. *Future Virology*, **2014**, 9, 703-706	2.4	2
53	Gammasphaerolipovirus, a newly proposed bacteriophage genus, unifies viruses of halophilic archaea and thermophilic bacteria within the novel family Sphaerolipoviridae. *Archives of Virology*, **2014**, 159, 1541-54	2.6	47
52	Protein-protein interactions leading to recruitment of the host DNA sliding clamp by the hyperthermophilic Sulfolobus islandicus rod-shaped virus 2. *Journal of Virology*, **2014**, 88, 7105-8	6.6	14
51	Chimeric viruses blur the borders between the major groups of eukaryotic single-stranded DNA viruses. *Nature Communications*, **2013**, 4, 2700	17.4	74
50	Networks of evolutionary interactions underlying the polyphyletic origin of ssDNA viruses. *Current Opinion in Virology*, **2013**, 3, 578-86	7.5	85
49	Fake virus particles generated by fluorescence microscopy. *Trends in Microbiology*, **2013**, 21, 1-5	12.4	62
48	Genomics and biology of Rudiviruses, a model for the study of virus-host interactions in Archaea. *Biochemical Society Transactions*, **2013**, 41, 443-50	5.1	33
47	Living side by side with a virus: characterization of two novel plasmids from Thermococcus prieurii, a host for the spindle-shaped virus TPV1. *Applied and Environmental Microbiology*, **2013**, 79, 3822-8	4.8	20
46	First insights into the entry process of hyperthermophilic archaeal viruses. *Journal of Virology*, **2013**, 87, 13379-85	6.6	48
45	Assessment of viral community functional potential from viral metagenomes may be hampered by contamination with cellular sequences. *Open Biology*, **2013**, 3, 130160	7	97
44	Genomics and genetics of Sulfolobus islandicus LAL14/1, a model hyperthermophilic archaeon. *Open Biology*, **2013**, 3, 130010	7	49
43	Insights into dynamics of mobile genetic elements in hyperthermophilic environments from five new Thermococcus plasmids. *PLoS ONE*, **2013**, 8, e49044	3.7	49
42	Towards a more comprehensive classification of satellite viruses. *Nature Reviews Microbiology*, **2012**, 10, 234-234	22.2	5
41	Archaeal tetrathionate hydrolase goes viral: secretion of a sulfur metabolism enzyme in the form of virus-like particles. *Applied and Environmental Microbiology*, **2012**, 78, 5463-5	4.8	7
40	Recombination between RNA viruses and plasmids might have played a central role in the origin and evolution of small DNA viruses. *BioEssays*, **2012**, 34, 867-70	4.1	27
39	The Origin of Virions and Virocells: The Escape Hypothesis Revisited **2012**, 43-60		20
38	Postcards from the edge: structural genomics of archaeal viruses. *Advances in Virus Research*, **2012**, 82, 33-62	10.7	35
37	Evolution and diversity of the Microviridae viral family through a collection of 81 new complete genomes assembled from virome reads. *PLoS ONE*, **2012**, 7, e40418	3.7	123

36	Archaeal virus with exceptional virion architecture and the largest single-stranded DNA genome. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13386-91	11.5	65
35	A new proposed taxon for double-stranded DNA viruses, the order "Ligamenvirales". *Archives of Virology*, **2012**, 157, 791-5	2.6	42
34	Sputnik and Mavirus: not more than satellite viruses. *Nature Reviews Microbiology*, **2012**, 10, 78-78	22.2	6
33	Double-stranded DNA viruses: 20 families and only five different architectural principles for virion assembly. *Current Opinion in Virology*, **2011**, 1, 118-24	7.5	68
32	Genomics of bacterial and archaeal viruses: dynamics within the prokaryotic virosphere. *Microbiology and Molecular Biology Reviews*, **2011**, 75, 610-35	13.2	170
31	Virophages or satellite viruses?. *Nature Reviews Microbiology*, **2011**, 9, 762-3	22.2	38
30	A thaumarchaeal provirus testifies for an ancient association of tailed viruses with archaea. *Biochemical Society Transactions*, **2011**, 39, 82-8	5.1	41
29	Virology. Revealing virus-host interplay. *Science*, **2011**, 333, 45-6	33.3	4
28	Microviridae goes temperate: microvirus-related proviruses reside in the genomes of Bacteroidetes. *PLoS ONE*, **2011**, 6, e19893	3.7	81
27	Crenarchaeal CdvA forms double-helical filaments containing DNA and interacts with ESCRT-III-like CdvB. *PLoS ONE*, **2011**, 6, e21921	3.7	35
26	The evolutionary history of archaeal MCM helicases: a case study of vertical evolution combined with hitchhiking of mobile genetic elements. *Molecular Biology and Evolution*, **2010**, 27, 2716-32	8.3	56
25	Order to the viral universe. *Journal of Virology*, **2010**, 84, 12476-9	6.6	86
24	Comparative analysis of the mosaic genomes of tailed archaeal viruses and proviruses suggests common themes for virion architecture and assembly with tailed viruses of bacteria. *Journal of Molecular Biology*, **2010**, 397, 144-60	6.5	96
23	Protein A33 responsible for antibody-resistant spread of Vaccinia virus is homologous to C-type lectin-like proteins. *Virus Research*, **2010**, 151, 97-101	6.4	1
22	The Sulfolobus rod-shaped virus 2 encodes a prominent structural component of the unique virion release system in Archaea. *Virology*, **2010**, 404, 1-4	3.6	42
21	Calcium ion-dependent entry of the membrane-containing bacteriophage PM2 into its Pseudoalteromonas host. *Virology*, **2010**, 405, 120-8	3.6	16
20	Geminiviruses: a tale of a plasmid becoming a virus. *BMC Evolutionary Biology*, **2009**, 9, 112	3	77
19	Does the evolution of viral polymerases reflect the origin and evolution of viruses?. *Nature Reviews Microbiology*, **2009**, 7, 250; author reply 250	22.2	29

18	Virus evolution: how far does the double beta-barrel viral lineage extend?. *Nature Reviews Microbiology*, **2008**, 6, 941-8	22.2	160
17	Identification and functional analysis of the Rz/Rz1-like accessory lysis genes in the membrane-containing bacteriophage PRD1. *Molecular Microbiology*, **2008**, 68, 492-503	4.1	31
16	Holin of bacteriophage lambda: structural insights into a membrane lesion. *Molecular Microbiology*, **2008**, 69, 781-3	4.1	20
15	Archaeal proviruses TKV4 and MVV extend the PRD1-adenovirus lineage to the phylum Euryarchaeota. *Virology*, **2008**, 375, 292-300	3.6	58
14	Genetics for Pseudoalteromonas provides tools to manipulate marine bacterial virus PM2. *Journal of Bacteriology*, **2008**, 190, 1298-307	3.5	15
13	A novel lysis system in PM2, a lipid-containing marine double-stranded DNA bacteriophage. *Molecular Microbiology*, **2007**, 64, 1635-48	4.1	25
12	Putative prophages related to lytic tailless marine dsDNA phage PM2 are widespread in the genomes of aquatic bacteria. *BMC Genomics*, **2007**, 8, 236	4.5	54
11	Polymyxin B induces lysis of marine pseudoalteromonads. *Antimicrobial Agents and Chemotherapy*, **2007**, 51, 3908-14	5.9	11
10	Genome characterization of lipid-containing marine bacteriophage PM2 by transposon insertion mutagenesis. *Journal of Virology*, **2006**, 80, 9270-8	6.6	21
9	Plasmids from Euryarchaeota349-377		1
8	A viral ring nuclease anti-CRISPR subverts type III CRISPR immunity		2
7	New virus isolates from Italian hydrothermal environments underscore the biogeographic pattern in archaeal virus communities		1
6	Analysis of Spounaviruses as a Case Study for the Overdue Reclassification of Tailed Bacteriophages		8
5	Diversification of giant and large eukaryotic dsDNA viruses predated the origin of modern eukaryotes		3
4	Gene sharing networks to automate genome-based prokaryotic viral taxonomy		9
3	Cryptic inoviruses are pervasive in bacteria and archaea across Earth biomes		2
2	Archaeal extracellular vesicles are produced in an ESCRT-dependent manner and promote gene transfer and nutrient cycling in extreme environments		1
1	Viruses of the Archaea1-9		4