

Andrew E Firth

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.

121 papers	6,061 citations	41 h-index	76 g-index
132 ext. papers	7,450 ext. citations	8.8 avg, IF	6.17 L-index

#	Paper	IF	Citations
121	Evolutionarily conserved inhibitory uORFs sensitize mRNA translation to start codon selection stringency.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
120	A late-stage assembly checkpoint of the human mitochondrial ribosome large subunit.. <i>Nature Communications</i> , 2022 , 13, 929	17.4	1
119	CIAAlign: A highly customisable command line tool to clean, interpret and visualise multiple sequence alignments.. <i>PeerJ</i> , 2022 , 10, e12983	3.1	3
118	Evaluating ribosomal frameshifting in CCR5 mRNA decoding.. <i>Nature</i> , 2022 , 604, E16-E23	50.4	0
117	Structural and molecular basis for Cardiovirus 2A protein as a viral gene expression switch. <i>Nature Communications</i> , 2021 , 12, 7166	17.4	3
116	Investigating molecular mechanisms of 2A-stimulated ribosomal pausing and frameshifting in Theilovirus. <i>Nucleic Acids Research</i> , 2021 , 49, 11938-11958	20.1	2
115	A swine arterivirus deubiquitinase stabilizes two major envelope proteins and promotes production of viral progeny. <i>PLoS Pathogens</i> , 2021 , 17, e1009403	7.6	4
114	Manipulation of the unfolded protein response: A pharmacological strategy against coronavirus infection. <i>PLoS Pathogens</i> , 2021 , 17, e1009644	7.6	17
113	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
112	Targeting the Conserved Stem Loop 2 Motif in the SARS-CoV-2 Genome. <i>Journal of Virology</i> , 2021 , 95, e0066321	6.6	9
111	Soliniviruses (Soliniviridae) 2021 , 892-896		
110	pUL21 is a viral phosphatase adaptor that promotes herpes simplex virus replication and spread. <i>PLoS Pathogens</i> , 2021 , 17, e1009824	7.6	4
109	Hybrid Gene Origination Creates Human-Virus Chimeric Proteins during Infection. <i>Cell</i> , 2020 , 181, 1502-1517.e23	56.7	23
108	Evidence for a novel overlapping coding sequence in POLG initiated at a CUG start codon. <i>BMC Genetics</i> , 2020 , 21, 25	2.6	18
107	An RNA thermoswitch regulates daytime growth in Arabidopsis. <i>Nature Plants</i> , 2020 , 6, 522-532	11.5	63
106	A case for a negative-strand coding sequence in a group of positive-sense RNA viruses. <i>Virus Evolution</i> , 2020 , 6, veaa007	3.7	19
105	A putative new SARS-CoV protein, 3c, encoded in an ORF overlapping ORF3a. <i>Journal of General Virology</i> , 2020 , 101, 1085-1089	4.9	28

104	A hidden gene in astroviruses encodes a viroporin. <i>Nature Communications</i> , 2020 , 11, 4070	17.4	10
103	CpG Dinucleotides Inhibit HIV-1 Replication through Zinc Finger Antiviral Protein (ZAP)-Dependent and -Independent Mechanisms. <i>Journal of Virology</i> , 2020 , 94,	6.6	38
102	Programmed -2/-1 Ribosomal Frameshifting in Simariteriviruses: an Evolutionarily Conserved Mechanism. <i>Journal of Virology</i> , 2019 , 93,	6.6	8
101	Retapamulin-Assisted Ribosome Profiling Reveals the Alternative Bacterial Proteome. <i>Molecular Cell</i> , 2019 , 74, 481-493.e6	17.6	64
100	C6orf203 is an RNA-binding protein involved in mitochondrial protein synthesis. <i>Nucleic Acids Research</i> , 2019 , 47, 9386-9399	20.1	14
99	Characterization of the stimulators of protein-directed ribosomal frameshifting in Theiler's murine encephalomyelitis virus. <i>Nucleic Acids Research</i> , 2019 , 47, 8207-8223	20.1	7
98	Comparative Analysis of Gene Expression in Virulent and Attenuated Strains of Infectious Bronchitis Virus at Subcodon Resolution. <i>Journal of Virology</i> , 2019 , 93,	6.6	17
97	Propensity of a picornavirus polymerase to slip on potyvirus-derived transcriptional slippage sites. <i>Journal of General Virology</i> , 2019 , 100, 199-205	4.9	2
96	ICTV Virus Taxonomy Profile: Polycipiviridae. <i>Journal of General Virology</i> , 2019 , 100, 554-555	4.9	6
95	ICTV Virus Taxonomy Profile: Soliniviridae. <i>Journal of General Virology</i> , 2019 , 100, 736-737	4.9	7
94	An upstream protein-coding region in enteroviruses modulates virus infection in gut epithelial cells. <i>Nature Microbiology</i> , 2019 , 4, 280-292	26.6	50
93	Discovery of three RNA viruses using ant transcriptomic datasets. <i>Archives of Virology</i> , 2019 , 164, 643-647.6	4.6	5
92	Discovery of a novel Tymoviridae-like virus in mosquitoes from Mexico. <i>Archives of Virology</i> , 2019 , 164, 649-652	2.6	4
91	A barnavirus sequence mined from a transcriptome of the Antarctic pearlwort <i>Colobanthus quitensis</i> . <i>Archives of Virology</i> , 2018 , 163, 1921-1926	2.6	9
90	Ribosome profiling of the retrovirus murine leukemia virus. <i>Retrovirology</i> , 2018 , 15, 10	3.6	9
89	Translational autoregulation of BZW1 and BZW2 expression by modulating the stringency of start codon selection. <i>PLoS ONE</i> , 2018 , 13, e0192648	3.7	11
88	Detection of novel and recognized RNA viruses in mosquitoes from the Yucatan Peninsula of Mexico using metagenomics and characterization of their in vitro host ranges. <i>Journal of General Virology</i> , 2018 , 99, 1729-1738	4.9	14
87	Transcriptional and Translational Landscape of Equine Torovirus. <i>Journal of Virology</i> , 2018 , 92,	6.6	14

86	Avoidance of reporter assay distortions from fused dual reporters. <i>Rna</i> , 2017 , 23, 1285-1289	5.8	34
85	Protein-directed ribosomal frameshifting temporally regulates gene expression. <i>Nature Communications</i> , 2017 , 8, 15582	17.4	49
84	Neurodevelopmental protein Musashi-1 interacts with the Zika genome and promotes viral replication. <i>Science</i> , 2017 , 357, 83-88	33.3	101
83	ASXL gain-of-function truncation mutants: defective and dysregulated forms of a natural ribosomal frameshifting product?. <i>Biology Direct</i> , 2017 , 12, 24	7.2	7
82	A Review of Flaviviruses that Have No Known Arthropod Vector. <i>Viruses</i> , 2017 , 9,	6.2	39
81	Complete genome sequences of two insect-specific flaviviruses. <i>Archives of Virology</i> , 2017 , 162, 3913-3917	1.7	3
80	Translation Initiation from Conserved Non-AUG Codons Provides Additional Layers of Regulation and Coding Capacity. <i>MBio</i> , 2017 , 8,	7.8	13
79	Maturation of selected human mitochondrial tRNAs requires deadenylation. <i>ELife</i> , 2017 , 6,	8.9	43
78	An analysis by metabolic labelling of the encephalomyocarditis virus ribosomal frameshifting efficiency and stimulators. <i>Journal of General Virology</i> , 2017 , 98, 2100-2105	4.9	4
77	Polycipiviridae: a proposed new family of polycistronic picorna-like RNA viruses. <i>Journal of General Virology</i> , 2017 , 98, 2368-2378	4.9	23
76	A novel role for poly(C) binding proteins in programmed ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2016 , 44, 5491-503	20.1	26
75	Mutational analysis of the Potyviridae transcriptional slippage site utilized for expression of the P3N-PIPO and P1N-PISPO proteins. <i>Nucleic Acids Research</i> , 2016 , 44, 7618-29	20.1	18
74	High-Resolution Analysis of Coronavirus Gene Expression by RNA Sequencing and Ribosome Profiling. <i>PLoS Pathogens</i> , 2016 , 12, e1005473	7.6	129
73	Merida virus, a putative novel rhabdovirus discovered in Culex and Ochlerotatus spp. mosquitoes in the Yucatan Peninsula of Mexico. <i>Journal of General Virology</i> , 2016 , 97, 977-987	4.9	20
72	Isolation and characterization of Nylanderia fulva virus 1, a positive-sense, single-stranded RNA virus infecting the tawny crazy ant, Nylanderia fulva. <i>Virology</i> , 2016 , 496, 244-254	3.6	19
71	A +1 ribosomal frameshifting motif prevalent among plant amalgaviruses. <i>Virology</i> , 2016 , 498, 201-208	3.6	31
70	Ribosomal frameshifting and transcriptional slippage: From genetic steganography and cryptography to adventitious use. <i>Nucleic Acids Research</i> , 2016 , 44, 7007-78	20.1	157
69	A novel sweet potato potyvirus open reading frame (ORF) is expressed via polymerase slippage and suppresses RNA silencing. <i>Molecular Plant Pathology</i> , 2016 , 17, 1111-23	5.7	34

68	Discovery of a Small Non-AUG-Initiated ORF in Polioviruses and Luteoviruses That Is Required for Long-Distance Movement. <i>PLoS Pathogens</i> , 2015 , 11, e1004868	7.6	92
67	Insect-specific flaviviruses: a systematic review of their discovery, host range, mode of transmission, superinfection exclusion potential and genomic organization. <i>Viruses</i> , 2015 , 7, 1927-59	6.2	188
66	Ecuador Paraiso Escondido Virus, a New Flavivirus Isolated from New World Sand Flies in Ecuador, Is the First Representative of a Novel Clade in the Genus Flavivirus. <i>Journal of Virology</i> , 2015 , 89, 11773-85	6.6	27
65	The use of duplex-specific nuclease in ribosome profiling and a user-friendly software package for Ribo-seq data analysis. <i>Rna</i> , 2015 , 21, 1731-45	5.8	80
64	Characterization of Ribosomal Frameshifting in Theiler's Murine Encephalomyelitis Virus. <i>Journal of Virology</i> , 2015 , 89, 8580-9	6.6	15
63	New insights into flavivirus evolution, taxonomy and biogeographic history, extended by analysis of canonical and alternative coding sequences. <i>PLoS ONE</i> , 2015 , 10, e0117849	3.7	97
62	Transcriptional slippage in the positive-sense RNA virus family Potyviridae. <i>EMBO Reports</i> , 2015 , 16, 995-1004	4.9	125
61	Novel flaviviruses from mosquitoes: mosquito-specific evolutionary lineages within the phylogenetic group of mosquito-borne flaviviruses. <i>Virology</i> , 2014 , 464-465, 320-329	3.6	44
60	Transactivation of programmed ribosomal frameshifting by a viral protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2172-81	11.5	95
59	Solenopsis invicta virus 3: pathogenesis and stage specificity in red imported fire ants. <i>Virology</i> , 2014 , 460-461, 66-71	3.6	21
58	Orsay virus utilizes ribosomal frameshifting to express a novel protein that is incorporated into virions. <i>Virology</i> , 2014 , 450-451, 213-21	3.6	20
57	Solenopsis invicta virus 3: mapping of structural proteins, ribosomal frameshifting, and similarities to Acyrthosiphon pisum virus and Kelp fly virus. <i>PLoS ONE</i> , 2014 , 9, e93497	3.7	15
56	Mapping overlapping functional elements embedded within the protein-coding regions of RNA viruses. <i>Nucleic Acids Research</i> , 2014 , 42, 12425-39	20.1	62
55	Analysis of tetra- and hepta-nucleotides motifs promoting -1 ribosomal frameshifting in Escherichia coli. <i>Nucleic Acids Research</i> , 2014 , 42, 7210-25	20.1	19
54	An essential fifth coding ORF in the sobemoviruses. <i>Virology</i> , 2013 , 446, 397-408	3.6	36
53	Novel virus discovery and genome reconstruction from field RNA samples reveals highly divergent viruses in dipteran hosts. <i>PLoS ONE</i> , 2013 , 8, e80720	3.7	96
52	An essential RNA element resides in a central region of hepatitis E virus ORF2. <i>Journal of General Virology</i> , 2013 , 94, 1468-1476	4.9	26
51	Alternative reading frame selection mediated by a tRNA-like domain of an internal ribosome entry site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E630-9	11.5	47

50	Non-canonical translation in RNA viruses. <i>Journal of General Virology</i> , 2012 , 93, 1385-1409	4.9	321
49	Identification of a novel splice variant form of the influenza A virus M2 ion channel with an antigenically distinct ectodomain. <i>PLoS Pathogens</i> , 2012 , 8, e1002998	7.6	153
48	Observation of dually decoded regions of the human genome using ribosome profiling data. <i>Genome Research</i> , 2012 , 22, 2219-29	9.7	137
47	Efficient -2 frameshifting by mammalian ribosomes to synthesize an additional arterivirus protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2920-8	11.5	187
46	Stimulation of stop codon readthrough: frequent presence of an extended 3'RNA structural element. <i>Nucleic Acids Research</i> , 2011 , 39, 6679-91	20.1	100
45	Programmed ribosomal frameshifting in the expression of the regulator of intestinal stem cell proliferation, adenomatous polyposis coli (APC). <i>RNA Biology</i> , 2011 , 8, 637-47	4.8	13
44	A pilot study of bacterial genes with disrupted ORFs reveals a surprising profusion of protein sequence recoding mediated by ribosomal frameshifting and transcriptional realignment. <i>Molecular Biology and Evolution</i> , 2011 , 28, 3195-211	8.3	38
43	Conservation of a packaging signal and the viral genome RNA packaging mechanism in alphavirus evolution. <i>Journal of Virology</i> , 2011 , 85, 8022-36	6.6	78
42	Ribosomal frameshifting into an overlapping gene in the 2B-encoding region of the cardiovirus genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1111-5	11.5	54
41	Identification of evolutionarily conserved non-AUG-initiated N-terminal extensions in human coding sequences. <i>Nucleic Acids Research</i> , 2011 , 39, 4220-34	20.1	147
40	Discovery of a small arterivirus gene that overlaps the GP5 coding sequence and is important for virus production. <i>Journal of General Virology</i> , 2011 , 92, 1097-1106	4.9	222
39	Detection of a fourth orbivirus non-structural protein. <i>PLoS ONE</i> , 2011 , 6, e25697	3.7	155
38	NS1 of flaviviruses in the Japanese encephalitis virus serogroup is a product of ribosomal frameshifting and plays a role in viral neuroinvasiveness. <i>Journal of Virology</i> , 2010 , 84, 1641-7	6.6	134
37	Candidates in Astroviruses, Seadornaviruses, Cytorhabdoviruses and Coronaviruses for +1 frame overlapping genes accessed by leaky scanning. <i>Virology Journal</i> , 2010 , 7, 17	6.1	22
36	Recode-2: new design, new search tools, and many more genes. <i>Nucleic Acids Research</i> , 2010 , 38, D69-74	20.1	42
35	Frameshifting in alphaviruses: a diversity of 3' stimulatory structures. <i>Journal of Molecular Biology</i> , 2010 , 397, 448-56	6.5	36
34	Recurrent emergence of catalytically inactive ornithine decarboxylase homologous forms that likely have regulatory function. <i>Journal of Molecular Evolution</i> , 2010 , 70, 289-302	3.1	19
33	Evidence for ribosomal frameshifting and a novel overlapping gene in the genomes of insect-specific flaviviruses. <i>Virology</i> , 2010 , 399, 153-166	3.6	54

32	Computational Resources for Studying Recoding. <i>Nucleic Acids and Molecular Biology</i> , 2010 , 435-461		5
31	A case for a CUG-initiated coding sequence overlapping torovirus ORF1a and encoding a novel 30 kDa product. <i>Virology Journal</i> , 2009 , 6, 136	6.1	7
30	A conserved predicted pseudoknot in the NS2A-encoding sequence of West Nile and Japanese encephalitis flaviviruses suggests NS1 may derive from ribosomal frameshifting. <i>Virology Journal</i> , 2009 , 6, 14	6.1	107
29	Bioinformatic evidence for a stem-loop structure 5' adjacent to the IGR-IRES and for an overlapping gene in the bee paralysis dicistroviruses. <i>Virology Journal</i> , 2009 , 6, 193	6.1	26
28	Analysis of the coding potential of the partially overlapping 3' ORF in segment 5 of the plant fijiviruses. <i>Virology Journal</i> , 2009 , 6, 32	6.1	26
27	Evidence for a novel coding sequence overlapping the 5' terminal approximately 90 codons of the gill-associated and yellow head okavirus envelope glycoprotein gene. <i>Virology Journal</i> , 2009 , 6, 222	6.1	4
26	Discovery of frameshifting in Alphavirus 6K resolves a 20-year enigma. <i>Virology Journal</i> , 2008 , 5, 108	6.1	91
25	Bioinformatic analysis suggests that the Cypovirus 1 major core protein cistron harbours an overlapping gene. <i>Virology Journal</i> , 2008 , 5, 62	6.1	6
24	Bioinformatic analysis suggests that the Orbivirus VP6 cistron encodes an overlapping gene. <i>Virology Journal</i> , 2008 , 5, 48	6.1	40
23	An overlapping essential gene in the Potyviridae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5897-902	11.5	582
22	GLUE-IT and PEDEL-AA: new programmes for analyzing protein diversity in randomized libraries. <i>Nucleic Acids Research</i> , 2008 , 36, W281-5	20.1	143
21	Bioinformatic analysis suggests that a conserved ORF in the waikaviruses encodes an overlapping gene. <i>Archives of Virology</i> , 2008 , 153, 1379-83	2.6	16
20	HBVRegDB: annotation, comparison, detection and visualization of regulatory elements in hepatitis B virus sequences. <i>Virology Journal</i> , 2007 , 4, 136	6.1	26
19	Detecting overlapping coding sequences in virus genomes. <i>BMC Bioinformatics</i> , 2006 , 7, 75	3.6	65
18	Effect of 5' UTR introns on gene expression in <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2006 , 7, 120	4.5	136
17	Optical and Near-Infrared Observations of the Peculiar Type Ia Supernova 1999ac. <i>Astronomical Journal</i> , 2006 , 131, 2615-2627	4.9	24
16	Strategies and computational tools for improving randomized protein libraries. <i>New Biotechnology</i> , 2005 , 22, 105-12		104
15	Statistics of protein library construction. <i>Bioinformatics</i> , 2005 , 21, 3314-5	7.2	63

14	Detecting overlapping coding sequences with pairwise alignments. <i>Bioinformatics</i> , 2005 , 21, 282-92	7.2	38
13	Estimating photometric redshifts with artificial neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 339, 1195-1202	4.3	137
12	User-friendly algorithms for estimating completeness and diversity in randomized protein-encoding libraries. <i>Protein Engineering, Design and Selection</i> , 2003 , 16, 451-7	1.9	125
11	CIAlign - A highly customisable command line tool to clean, interpret and visualise multiple sequence alignments		3
10	The stem loop 2 motif is a site of vulnerability for SARS-CoV-2		3
9	A hidden gene in astroviruses encodes a cell-permeabilizing protein involved in virus release		1
8	Upstream translation initiation expands the coding capacity of segmented negative-strand RNA viruses		1
7	Structural and molecular basis for Cardiovirus 2A protein as a viral gene expression switch		4
6	A putative new SARS-CoV protein, 3a*, encoded in an ORF overlapping ORF3a		2
5	Investigating molecular mechanisms of 2A-stimulated ribosomal pausing and frameshifting in Theilovirus		1
4	Manipulation of the unfolded protein response: a pharmacological strategy against coronavirus infection		2
3	Retapamulin-assisted ribosome profiling reveals the alternative bacterial proteome		2
2	Comparative analysis of gene expression in virulent and attenuated strains of infectious bronchitis virus at sub-codon resolution		1
1	A case for a reverse-frame coding sequence in a group of positive-sense RNA viruses		3