

Ian Brierley

List of Publications by Year in descending order

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36
papers

3,153
citations

331670

21
h-index

361022

35
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43
all docs

43
docs citations

43
times ranked

3272
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of an efficient coronavirus ribosomal frameshifting signal: Requirement for an RNA pseudoknot. <i>Cell</i> , 1989, 57, 537-547.	28.9	669
2	Non-canonical translation in RNA viruses. <i>Journal of General Virology</i> , 2012, 93, 1385-1409.	2.9	410
3	A mechanical explanation of RNA pseudoknot function in programmed ribosomal frameshifting. <i>Nature</i> , 2006, 441, 244-247.	27.8	267
4	Mutational analysis of the "slippery-sequence" component of a coronavirus ribosomal frameshifting signal. <i>Journal of Molecular Biology</i> , 1992, 227, 463-479.	4.2	245
5	High-Resolution Analysis of Coronavirus Gene Expression by RNA Sequencing and Ribosome Profiling. <i>PLoS Pathogens</i> , 2016, 12, e1005473.	4.7	188
6	Viral RNA pseudoknots: versatile motifs in gene expression and replication. <i>Nature Reviews Microbiology</i> , 2007, 5, 598-610.	28.6	186
7	An RNA thermoswitch regulates daytime growth in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2020, 6, 522-532.	9.3	155
8	Programmed ribosomal frameshifting in HIV-1 and the SARS-CoV. <i>Virus Research</i> , 2006, 119, 29-42.	2.2	139
9	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, 1731-1745.	3.5	117
10	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.	7.1	113
11	Protein-directed ribosomal frameshifting temporally regulates gene expression. <i>Nature Communications</i> , 2017, 8, 15582.	12.8	79
12	Maturation of selected human mitochondrial tRNAs requires deadenylation. <i>ELife</i> , 2017, 6, .	6.0	72
13	RNA pseudoknots and the regulation of protein synthesis. <i>Biochemical Society Transactions</i> , 2008, 36, 684-689.	3.4	55
14	Manipulation of the unfolded protein response: A pharmacological strategy against coronavirus infection. <i>PLoS Pathogens</i> , 2021, 17, e1009644.	4.7	55
15	A novel role for poly(C) binding proteins in programmed ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2016, 44, 5491-5503.	14.5	44
16	Hybrid Gene Origination Creates Human-Virus Chimeric Proteins during Infection. <i>Cell</i> , 2020, 181, 1502-1517.e23.	28.9	33
17	Translational termination "re-initiation" in viral systems. <i>Biochemical Society Transactions</i> , 2008, 36, 717-722.	3.4	29
18	Inhibition of Translation Initiation by Protein 169: A Vaccinia Virus Strategy to Suppress Innate and Adaptive Immunity and Alter Virus Virulence. <i>PLoS Pathogens</i> , 2015, 11, e1005151.	4.7	29

#	ARTICLE	IF	CITATIONS
19	Structureâ€“function analysis of the ribosomal frameshifting signal of two human immunodeficiency virus type 1 isolates with increased resistance to viral protease inhibitors. <i>Journal of General Virology</i> , 2007, 88, 226-235.	2.9	28
20	Comparative Analysis of Gene Expression in Virulent and Attenuated Strains of Infectious Bronchitis Virus at Subcodon Resolution. <i>Journal of Virology</i> , 2019, 93, .	3.4	26
21	Characterization of Ribosomal Frameshifting in Theiler's Murine Encephalomyelitis Virus. <i>Journal of Virology</i> , 2015, 89, 8580-8589.	3.4	23
22	Modulation of Viral Programmed Ribosomal Frameshifting and Stop Codon Readthrough by the Host Restriction Factor Shiftless. <i>Viruses</i> , 2021, 13, 1230.	3.3	22
23	Development of a tRNA-dependent in vitro translation system. <i>Rna</i> , 2001, 7, 765-773.	3.5	18
24	Characterization of the stimulators of protein-directed ribosomal frameshifting in Theiler's murine encephalomyelitis virus. <i>Nucleic Acids Research</i> , 2019, 47, 8207-8223.	14.5	18
25	Structural and molecular basis for <i>Cardiovirus 2A</i> protein as a viral gene expression switch. <i>Nature Communications</i> , 2021, 12, 7166.	12.8	18
26	Programmed $\hat{2}/\hat{1}$ Ribosomal Frameshifting in Simarteriviruses: an Evolutionarily Conserved Mechanism. <i>Journal of Virology</i> , 2019, 93, .	3.4	17
27	Ribosome profiling of the retrovirus murine leukemia virus. <i>Retrovirology</i> , 2018, 15, 10.	2.0	16
28	Modulation of Stop Codon Read-Through Efficiency and Its Effect on the Replication of Murine Leukemia Virus. <i>Journal of Virology</i> , 2014, 88, 10364-10376.	3.4	15
29	Ribosome profiling of porcine reproductive and respiratory syndrome virus reveals novel features of viral gene expression. <i>ELife</i> , 2022, 11, .	6.0	14
30	Direct Observation of Distinct A/P Hybrid-State tRNAs in Translocating Ribosomes. <i>Structure</i> , 2010, 18, 257-264.	3.3	12
31	Investigating molecular mechanisms of 2A-stimulated ribosomal pausing and frameshifting in <i>Theilovirus</i> . <i>Nucleic Acids Research</i> , 2021, 49, 11938-11958.	14.5	11
32	Probing the mechanism of ribosomal frameshifting on viral RNAs. <i>Biochemical Society Transactions</i> , 1993, 21, 822-826.	3.4	7
33	Macrolide-Induced Ribosomal Frameshifting: A New Route to Antibiotic Resistance. <i>Molecular Cell</i> , 2013, 52, 613-615.	9.7	7
34	Mitoribosome Profiling from Human Cell Culture: A High Resolution View of Mitochondrial Translation. <i>Methods in Molecular Biology</i> , 2021, 2192, 183-196.	0.9	5
35	V, 2. Ribosomal frameshifting in astroviruses. <i>Perspectives in Medical Virology</i> , 2003, 9, 587-606.	0.1	2
36	Ribosome profiling of porcine reproductive and respiratory syndrome virus. <i>Access Microbiology</i> , 2019, 1, .	0.5	0