## Stephen Anthony Cusack

## List of Publications by Citations

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87 8,064 41 89 g-index

97 9,169 16.8 5.92 ext. papers ext. citations avg, IF L-index

#	Paper Paper	IF	Citations
87	A second class of synthetase structure revealed by X-ray analysis of Escherichia coli seryl-tRNA synthetase at 2.5 A. <i>Nature</i> , <b>1990</b> , 347, 249-55	50.4	602
86	The cap-snatching endonuclease of influenza virus polymerase resides in the PA subunit. <i>Nature</i> , <b>2009</b> , 458, 914-8	50.4	542
85	An antifungal agent inhibits an aminoacyl-tRNA synthetase by trapping tRNA in the editing site. <i>Science</i> , <b>2007</b> , 316, 1759-61	33.3	469
84	Structural basis for the activation of innate immune pattern-recognition receptor RIG-I by viral RNA. <i>Cell</i> , <b>2011</b> , 147, 423-35	56.2	439
83	The structural basis for cap binding by influenza virus polymerase subunit PB2. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 500-6	17.6	380
82	Structure of influenza A polymerase bound to the viral RNA promoter. <i>Nature</i> , <b>2014</b> , 516, 355-60	50.4	321
81	Structural insight into cap-snatching and RNA synthesis by influenza polymerase. <i>Nature</i> , <b>2014</b> , 516, 36	1 <del>5</del> 60.4	299
80	A triple beta-spiral in the adenovirus fibre shaft reveals a new structural motif for a fibrous protein. <i>Nature</i> , <b>1999</b> , 401, 935-8	50.4	279
79	The structure of the Escherichia coli EF-Tu.EF-Ts complex at 2.5 A resolution. <i>Nature</i> , <b>1996</b> , 379, 511-8	50.4	275
78	Structure and nuclear import function of the C-terminal domain of influenza virus polymerase PB2 subunit. <i>Nature Structural and Molecular Biology</i> , <b>2007</b> , 14, 229-33	17.6	245
77	Sequence, structural and evolutionary relationships between class 2 aminoacyl-tRNA synthetases. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 3489-98	20.1	245
76	The 2 A crystal structure of leucyl-tRNA synthetase and its complex with a leucyl-adenylate analogue. <i>EMBO Journal</i> , <b>2000</b> , 19, 2351-61	13	223
75	Characterization of influenza virus variants induced by treatment with the endonuclease inhibitor baloxavir marboxil. <i>Scientific Reports</i> , <b>2018</b> , 8, 9633	4.9	206
74	Bunyaviridae RNA polymerases (L-protein) have an N-terminal, influenza-like endonuclease domain, essential for viral cap-dependent transcription. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1001101	7.6	176
73	Eleven down and nine to go. <i>Nature Structural Biology</i> , <b>1995</b> , 2, 824-31		173
<del>7</del> 2	Large-scale induced fit recognition of an m(7)GpppG cap analogue by the human nuclear cap-binding complex. <i>EMBO Journal</i> , <b>2002</b> , 21, 5548-57	13	154
71	RNA clamping by Vasa assembles a piRNA amplifier complex on transposon transcripts. <i>Cell</i> , <b>2014</b> , 157, 1698-711	56.2	149

## (2013-2008)

70	Host determinant residue lysine 627 lies on the surface of a discrete, folded domain of influenza virus polymerase PB2 subunit. <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000136	7.6	143
69	Structural analysis of specific metal chelating inhibitor binding to the endonuclease domain of influenza pH1N1 (2009) polymerase. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002831	7.6	123
68	Structural Insights into Bunyavirus Replication and Its Regulation by the vRNA Promoter. <i>Cell</i> , <b>2015</b> , 161, 1267-79	56.2	120
67	Crystal structure of the RNA-dependent RNA polymerase from influenza C virus. <i>Nature</i> , <b>2015</b> , 527, 114-	<del>-</del> <b>₹</b> 0.4	116
66	Crystal structure of the human nuclear cap binding complex. <i>Molecular Cell</i> , <b>2001</b> , 8, 383-96	17.6	115
65	Structural dynamics of the aminoacylation and proofreading functional cycle of bacterial leucyl-tRNA synthetase. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 677-84	17.6	111
64	Structural insights into RNA synthesis by the influenza virus transcription-replication machine. <i>Virus Research</i> , <b>2017</b> , 234, 103-117	6.4	102
63	CBC-ARS2 stimulates 3Vend maturation of multiple RNA families and favors cap-proximal processing. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 1358-66	17.6	102
62	Influenza Polymerase Can Adopt an Alternative Configuration Involving a Radical Repacking of PB2 Domains. <i>Molecular Cell</i> , <b>2016</b> , 61, 125-37	17.6	92
61	Towards an atomic resolution understanding of the influenza virus replication machinery. <i>Current Opinion in Structural Biology</i> , <b>2010</b> , 20, 104-13	8.1	89
60	Structural Analysis of dsRNA Binding to Anti-viral Pattern Recognition Receptors LGP2 and MDA5. <i>Molecular Cell</i> , <b>2016</b> , 62, 586-602	17.6	82
59	Crystal structures of the human and fungal cytosolic Leucyl-tRNA synthetase editing domains: A structural basis for the rational design of antifungal benzoxaboroles. <i>Journal of Molecular Biology</i> , <b>2009</b> , 390, 196-207	6.5	8o
58	Molecular mechanism of influenza A NS1-mediated TRIM25 recognition and inhibition. <i>Nature Communications</i> , <b>2018</b> , 9, 1820	17.4	76
57	Mutational and metal binding analysis of the endonuclease domain of the influenza virus polymerase PA subunit. <i>Journal of Virology</i> , <b>2010</b> , 84, 9096-104	6.6	72
56	Structural basis of an essential interaction between influenza polymerase and Pol II CTD. <i>Nature</i> , <b>2017</b> , 541, 117-121	50.4	66
55	Solution structure of NOD1 CARD and mutational analysis of its interaction with the CARD of downstream kinase RICK. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 160-74	6.5	62
54	Discovery of Novel Oral Protein Synthesis Inhibitors of Mycobacterium tuberculosis That Target Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 6271-80	5.9	61
53	New 7-methylguanine derivatives targeting the influenza polymerase PB2 cap-binding domain.  Journal of Medicinal Chemistry, <b>2013</b> , 56, 8915-30	8.3	57

52	Specificity of recognition of mRNA 5\text{Vcap} by human nuclear cap-binding complex. Rna, 2005, 11, 1355-6	<b>3</b> 5.8	55
51	Comparative Structural and Functional Analysis of Bunyavirus and Arenavirus Cap-Snatching Endonucleases. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005636	7.6	55
50	Towards a structural understanding of RNA synthesis by negative strand RNA viral polymerases. <i>Current Opinion in Structural Biology</i> , <b>2016</b> , 36, 75-84	8.1	51
49	Inelastic neutron scattering analysis of hexokinase dynamics and its modification on binding of glucose. <i>Nature</i> , <b>1982</b> , 300, 84-6	50.4	51
48	The physiological target for LeuRS translational quality control is norvaline. <i>EMBO Journal</i> , <b>2014</b> , 33, 1639-53	13	47
47	A Structure-Based Model for the Complete Transcription Cycle of Influenza Polymerase. <i>Cell</i> , <b>2020</b> , 181, 877-893.e21	56.2	43
46	Structural snapshots of actively transcribing influenza polymerase. <i>Nature Structural and Molecular Biology</i> , <b>2019</b> , 26, 460-470	17.6	41
45	Cryptosporidium and Toxoplasma Parasites Are Inhibited by a Benzoxaborole Targeting Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 5817-27	5.9	41
44	Escherichia coli SecA shape and dimensions. FEBS Letters, 1998, 436, 277-82	3.8	40
43	An in vitro fluorescence based study of initiation of RNA synthesis by influenza B polymerase. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 3353-3368	20.1	39
42	Kinetic discrimination of self/non-self RNA by the ATPase activity of RIG-I and MDA5. <i>BMC Biology</i> , <b>2015</b> , 13, 54	7.3	39
41	Antimalarial Benzoxaboroles Target Plasmodium falciparum Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 4886-95	5.9	39
40	Targeting CPSF3 as a new approach to control toxoplasmosis. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 385-3	9 <b>4</b> 2	37
39	Influenza A virus progeny vRNP trafficking in live infected cells studied with the virus-encoded fluorescently tagged PB2 protein. <i>Vaccine</i> , <b>2012</b> , 30, 7411-7	4.1	37
38	RIP2 filament formation is required for NOD2 dependent NF- <b>B</b> signalling. <i>Nature Communications</i> , <b>2018</b> , 9, 4043	17.4	36
37	Capped RNA primer binding to influenza polymerase and implications for the mechanism of cap-binding inhibitors. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 956-971	20.1	34
36	Direct measurement of hydration-related dynamic changes in lysozyme using inelastic neutron scattering spectroscopy. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1987</b> , 4, 583-8	3.6	33
35	Crystallization of the seryl-tRNA synthetase:tRNAS(ser) complex of Escherichia coli. <i>FEBS Letters</i> , <b>1993</b> , 324, 167-70	3.8	32

## (2020-1984)

34	Variation of longitudinal acoustic velocity at gigahertz frequencies with water content in rat-tail tendon fibers. <i>Biopolymers</i> , <b>1984</b> , 23, 337-51	2.2	32
33	Hierarchical assembly of the Alu domain of the mammalian signal recognition particle. <i>Rna</i> , <b>2001</b> , 7, 731	- <del>4</del> .8	30
32	Crystal structure of vaccinia virus mRNA capping enzyme provides insights into the mechanism and evolution of the capping apparatus. <i>Structure</i> , <b>2014</b> , 22, 452-65	5.2	29
31	Segmented negative strand RNA virus nucleoprotein structure. Current Opinion in Virology, 2014, 5, 7-15	7.5	29
30	Structural analysis of human ARS2 as platform for co-transcriptional RNA sorting. <i>Nature Communications</i> , <b>2018</b> , 9, 1701	17.4	24
29	Systems to establish bunyavirus genome replication in the absence of transcription. <i>Journal of Virology</i> , <b>2013</b> , 87, 8205-12	6.6	24
28	The Cap-Snatching Mechanism of Bunyaviruses. <i>Trends in Microbiology</i> , <b>2020</b> , 28, 293-303	12.4	23
27	Atomic Structure and Biochemical Characterization of an RNA Endonuclease in the N Terminus of Andes Virus L Protein. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005635	7.6	23
26	Structure and Function of Influenza Polymerase. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2021</b> , 11,	5.4	21
25	Analysis of the Resistance Mechanism of a Benzoxaborole Inhibitor Reveals Insight into the Leucyl-tRNA Synthetase Editing Mechanism. <i>ACS Chemical Biology</i> , <b>2015</b> , 10, 2277-85	4.9	19
24	Structures of the inactive and active states of RIP2 kinase inform on the mechanism of activation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177161	3.7	18
23	Molecular basis of host-adaptation interactions between influenza virus polymerase PB2 subunit and ANP32A. <i>Nature Communications</i> , <b>2020</b> , 11, 3656	17.4	18
22	Structural insights into reptarenavirus cap-snatching machinery. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006400	7.6	17
21	Structural and functional characterization of the severe fever with thrombocytopenia syndrome virus L protein. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 5749-5765	20.1	15
20	Kinetic Origin of Substrate Specificity in Post-Transfer Editing by Leucyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 1-16	6.5	14
19	Structural basis for mutually exclusive co-transcriptional nuclear cap-binding complexes with either NELF-E or ARS2. <i>Nature Communications</i> , <b>2017</b> , 8, 1302	17.4	14
18	Structure and RNA recognition by the snRNA and snoRNA transport factor PHAX. <i>Rna</i> , <b>2010</b> , 16, 1205-16	 55.8	13
17	Pre-initiation and elongation structures of full-length La Crosse virus polymerase reveal functionally important conformational changes. <i>Nature Communications</i> , <b>2020</b> , 11, 3590	17.4	13

16	Comparative structural and functional analysis of orthomyxovirus polymerase cap-snatching domains. <i>PLoS ONE</i> , <b>2014</b> , 9, e84973	3.7	12
15	Time-Resolved Visualisation of Nearly-Native Influenza A Virus Progeny Ribonucleoproteins and Their Individual Components in Live Infected Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149986	3.7	10
14	Molecular basis of the multifaceted functions of human leucyl-tRNA synthetase in protein synthesis and beyond. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 4946-4959	20.1	9
13	Structural characterization of antibiotic self-immunity tRNA synthetase in plant tumour biocontrol agent. <i>Nature Communications</i> , <b>2016</b> , 7, 12928	17.4	9
12	RIG-I self-oligomerization is either dispensable or very transient for signal transduction. <i>PLoS ONE</i> , <b>2014</b> , 9, e108770	3.7	8
11	Influenza Virus RNA-Dependent RNA Polymerase and the Host Transcriptional Apparatus. <i>Annual Review of Biochemistry</i> , <b>2021</b> , 90, 321-348	29.1	7
10	An RNA Hybridization Assay for Screening Influenza A Virus Polymerase Inhibitors Using the Entire Ribonucleoprotein Complex. <i>Assay and Drug Development Technologies</i> , <b>2015</b> , 13, 488-506	2.1	6
9	Crystal structure of a signal recognition particle Alu domain in the elongation arrest conformation. <i>Rna</i> , <b>2014</b> , 20, 1955-62	5.8	6
8	NCBP3 positively impacts mRNA biogenesis. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 10413-10427	20.1	6
7	Mechanistic insights into RNA binding and RNA-regulated RIG-I ubiquitination by TRIM25		5
6	Aminoacetylation Reaction Catalyzed by Leucyl-tRNA Synthetase Operates via a Self-Assisted Mechanism Using a Conserved Residue and the Aminoacyl Substrate. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4388-98	3.4	5
5	Conformational changes in Lassa virus L protein associated with promoter binding and RNA synthesis activity. <i>Nature Communications</i> , <b>2021</b> , 12, 7018	17.4	4
4	Errors in the deposited SFTSV L protein structure. <i>Nature Microbiology</i> , <b>2021</b> , 6, 549-550	26.6	1
3	Structural snapshots of La Crosse virus polymerase reveal the mechanisms underlying Peribunyaviridae replication and transcription <i>Nature Communications</i> , <b>2022</b> , 13, 902	17.4	Ο
2	Type B and type A influenza polymerases have evolved distinct binding interfaces to recruit the RNA polymerase II CTD. <i>PLoS Pathogens</i> , <b>2022</b> , 18, e1010328	7.6	0
1	Cryo-electron microscopy structure of La Crosse orthobunyavirus polymerase in presence or absence of viral RNA <b>2016</b> , 9-10		