

Stephen Anthony Cusack

List of Publications by Year in descending order

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docs citations

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times ranked

8447
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural snapshots of La Crosse virus polymerase reveal the mechanisms underlying Peribunyaviridae replication and transcription. <i>Nature Communications</i> , 2022, 13, 902.	5.8	23
2	Type B and type A influenza polymerases have evolved distinct binding interfaces to recruit the RNA polymerase II CTD. <i>PLoS Pathogens</i> , 2022, 18, e1010328.	2.1	11
3	Structure and Function of Influenza Polymerase. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021, 11, a038372.	2.9	48
4	Errors in the deposited SFTSV L protein structure. <i>Nature Microbiology</i> , 2021, 6, 549-550.	5.9	7
5	Influenza Virus RNA-Dependent RNA Polymerase and the Host Transcriptional Apparatus. <i>Annual Review of Biochemistry</i> , 2021, 90, 321-348.	5.0	19
6	Conformational changes in Lassa virus L protein associated with promoter binding and RNA synthesis activity. <i>Nature Communications</i> , 2021, 12, 7018.	5.8	26
7	Molecular basis of host-adaptation interactions between influenza virus polymerase PB2 subunit and ANP32A. <i>Nature Communications</i> , 2020, 11, 3656.	5.8	43
8	NCBP3 positively impacts mRNA biogenesis. <i>Nucleic Acids Research</i> , 2020, 48, 10413-10427.	6.5	27
9	Pre-initiation and elongation structures of full-length La Crosse virus polymerase reveal functionally important conformational changes. <i>Nature Communications</i> , 2020, 11, 3590.	5.8	36
10	The Cap-Snatching Mechanism of Bunyaviruses. <i>Trends in Microbiology</i> , 2020, 28, 293-303.	3.5	74
11	Molecular basis of the multifaceted functions of human leucyl-tRNA synthetase in protein synthesis and beyond. <i>Nucleic Acids Research</i> , 2020, 48, 4946-4959.	6.5	11
12	A Structure-Based Model for the Complete Transcription Cycle of Influenza Polymerase. <i>Cell</i> , 2020, 181, 877-893.e21.	13.5	90
13	Structural and functional characterization of the severe fever with thrombocytopenia syndrome virus L protein. <i>Nucleic Acids Research</i> , 2020, 48, 5749-5765.	6.5	44
14	Structural snapshots of actively transcribing influenza polymerase. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 460-470.	3.6	78
15	Capped RNA primer binding to influenza polymerase and implications for the mechanism of cap-binding inhibitors. <i>Nucleic Acids Research</i> , 2018, 46, 956-971.	6.5	154
16	Structural analysis of human ARS2 as a platform for co-transcriptional RNA sorting. <i>Nature Communications</i> , 2018, 9, 1701.	5.8	53
17	Kinetic Origin of Substrate Specificity in Post-Transfer Editing by Leucyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2018, 430, 1-16.	2.0	19
18	RIP2 filament formation is required for NOD2 dependent NF- κ B signalling. <i>Nature Communications</i> , 2018, 9, 4043.	5.8	55

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19	Characterization of influenza virus variants induced by treatment with the endonuclease inhibitor baloxavir marboxil. <i>Scientific Reports</i> , 2018, 8, 9633.	1.6	306
20	Molecular mechanism of influenza A NS1-mediated TRIM25 recognition and inhibition. <i>Nature Communications</i> , 2018, 9, 1820.	5.8	124
21	Structural insights into RNA synthesis by the influenza virus transcription-replication machine. <i>Virus Research</i> , 2017, 234, 103-117.	1.1	143
22	Targeting <i>Toxoplasma gondii</i> CPSF 3 as a new approach to control toxoplasmosis. <i>EMBO Molecular Medicine</i> , 2017, 9, 385-394.	3.3	61
23	An in vitro fluorescence based study of initiation of RNA synthesis by influenza B polymerase. <i>Nucleic Acids Research</i> , 2017, 45, gkx043.	6.5	49
24	Structural basis of an essential interaction between influenza polymerase and Pol II CTD. <i>Nature</i> , 2017, 541, 117-121.	13.7	98
25	Editorial overview: Protein-nucleic acid interactions: An expanding universe. <i>Current Opinion in Structural Biology</i> , 2017, 47, iv-v.	2.6	1
26	Structural basis for mutually exclusive co-transcriptional nuclear cap-binding complexes with either NELF-E or ARS2. <i>Nature Communications</i> , 2017, 8, 1302.	5.8	31
27	Structural insights into repletavirus cap-snatching machinery. <i>PLoS Pathogens</i> , 2017, 13, e1006400.	2.1	32
28	Structures of the inactive and active states of RIP2 kinase inform on the mechanism of activation. <i>PLoS ONE</i> , 2017, 12, e0177161.	1.1	35
29	Structural Analysis of dsRNA Binding to Anti-viral Pattern Recognition Receptors LGP2 and MDA5. <i>Molecular Cell</i> , 2016, 62, 586-602.	4.5	113
30	Aminoacylation 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> , 2016, 120, 4388-4398.	1.2	6
31	Discovery of Novel Oral Protein Synthesis Inhibitors of <i>Mycobacterium tuberculosis</i> That Target Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6271-6280.	1.4	88
32	<i>Cryptosporidium</i> and <i>Toxoplasma</i> Parasites Are Inhibited by a Benzoxaborole Targeting Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5817-5827.	1.4	55
33	Structural characterization of antibiotic self-immunity tRNA synthetase in plant tumour biocontrol agent. <i>Nature Communications</i> , 2016, 7, 12928.	5.8	15
34	Antimalarial Benzoxaboroles Target <i>Plasmodium falciparum</i> Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4886-4895.	1.4	58
35	Influenza Polymerase Can Adopt an Alternative Configuration Involving a Radical Repacking of PB2 Domains. <i>Molecular Cell</i> , 2016, 61, 125-137.	4.5	123
36	Towards a structural understanding of RNA synthesis by negative strand RNA viral polymerases. <i>Current Opinion in Structural Biology</i> , 2016, 36, 75-84.	2.6	63

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37	Time-Resolved Visualisation of Nearly-Native Influenza A Virus Progeny Ribonucleoproteins and Their Individual Components in Live Infected Cells. <i>PLoS ONE</i> , 2016, 11, e0149986.	1.1	10
38	Atomic Structure and Biochemical Characterization of an RNA Endonuclease in the N Terminus of Andes Virus L Protein. <i>PLoS Pathogens</i> , 2016, 12, e1005635.	2.1	31
39	Comparative Structural and Functional Analysis of Bunyavirus and Arenavirus Cap-Snatching Endonucleases. <i>PLoS Pathogens</i> , 2016, 12, e1005636.	2.1	84
40	Structural Insights into Bunyavirus Replication and Its Regulation by the vRNA Promoter. <i>Cell</i> , 2015, 161, 1267-1279.	13.5	164
41	Analysis of the Resistance Mechanism of a Benzoxaborole Inhibitor Reveals Insight into the Leucyl-tRNA Synthetase Editing Mechanism. <i>ACS Chemical Biology</i> , 2015, 10, 2277-2285.	1.6	22
42	An RNA Hybridization Assay for Screening Influenza A Virus Polymerase Inhibitors Using the Entire Ribonucleoprotein Complex. <i>Assay and Drug Development Technologies</i> , 2015, 13, 488-506.	0.6	9
43	Crystal structure of the RNA-dependent RNA polymerase from influenza C virus. <i>Nature</i> , 2015, 527, 114-117.	13.7	145
44	Kinetic discrimination of self/non-self RNA by the ATPase activity of RIG-I and MDA5. <i>BMC Biology</i> , 2015, 13, 54.	1.7	47
45	RIG-I Self-Oligomerization Is Either Dispensable or Very Transient for Signal Transduction. <i>PLoS ONE</i> , 2014, 9, e108770.	1.1	10
46	Crystal structure of a signal recognition particle Alu domain in the elongation arrest conformation. <i>Rna</i> , 2014, 20, 1955-1962.	1.6	8
47	Crystal Structure of Vaccinia Virus mRNA Capping Enzyme Provides Insights into the Mechanism and Evolution of the Capping Apparatus. <i>Structure</i> , 2014, 22, 452-465.	1.6	41
48	Structure of influenza A polymerase bound to the viral RNA promoter. <i>Nature</i> , 2014, 516, 355-360.	13.7	404
49	Structural insight into cap-snatching and RNA synthesis by influenza polymerase. <i>Nature</i> , 2014, 516, 361-366.	13.7	376
50	The physiological target for Leu^{RS} translational quality control is norvaline. <i>EMBO Journal</i> , 2014, 33, 1639-1653.	3.5	58
51	Segmented negative strand RNA virus nucleoprotein structure. <i>Current Opinion in Virology</i> , 2014, 5, 7-15.	2.6	35
52	RNA Clamping by Vasa Assembles a piRNA Amplifier Complex on Transposon Transcripts. <i>Cell</i> , 2014, 157, 1698-1711.	13.5	208
53	Comparative Structural and Functional Analysis of Orthomyxovirus Polymerase Cap-Snatching Domains. <i>PLoS ONE</i> , 2014, 9, e84973.	1.1	18
54	New 7-Methylguanine Derivatives Targeting the Influenza Polymerase PB2 Cap-Binding Domain. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8915-8930.	2.9	64

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55	Systems To Establish Bunyavirus Genome Replication in the Absence of Transcription. <i>Journal of Virology</i> , 2013, 87, 8205-8212.	1.5	32
56	CBCâ€“ARS2 stimulates 3â€²-end maturation of multiple RNA families and favors cap-proximal processing. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1358-1366.	3.6	143
57	Influenza A virus progeny vRNP trafficking in live infected cells studied with the virus-encoded fluorescently tagged PB2 protein. <i>Vaccine</i> , 2012, 30, 7411-7417.	1.7	43
58	Structural Analysis of Specific Metal Chelating Inhibitor Binding to the Endonuclease Domain of Influenza pH1N1 (2009) Polymerase. <i>PLoS Pathogens</i> , 2012, 8, e1002831.	2.1	149
59	Structural dynamics of the aminoacylation and proofreading functional cycle of bacterial leucyl-tRNA synthetase. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 677-684.	3.6	131
60	Structural Basis for the Activation of Innate Immune Pattern-Recognition Receptor RIG-I by Viral RNA. <i>Cell</i> , 2011, 147, 423-435.	13.5	543
61	Towards an atomic resolution understanding of the influenza virus replication machinery. <i>Current Opinion in Structural Biology</i> , 2010, 20, 104-113.	2.6	95
62	Mutational and Metal Binding Analysis of the Endonuclease Domain of the Influenza Virus Polymerase PA Subunit. <i>Journal of Virology</i> , 2010, 84, 9096-9104.	1.5	81
63	Structure and RNA recognition by the snRNA and snoRNA transport factor PHAX. <i>Rna</i> , 2010, 16, 1205-1216.	1.6	18
64	Bunyaviridae RNA Polymerases (L-Protein) Have an N-Terminal, Influenza-Like Endonuclease Domain, Essential for Viral Cap-Dependent Transcription. <i>PLoS Pathogens</i> , 2010, 6, e1001101.	2.1	215
65	The cap-snatching endonuclease of influenza virus polymerase resides in the PA subunit. <i>Nature</i> , 2009, 458, 914-918.	13.7	630
66	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> , 2009, 390, 196-207.	2.0	89
67	The structural basis for cap binding by influenza virus polymerase subunit PB2. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 500-506.	3.6	436
68	Host Determinant Residue Lysine 627 Lies on the Surface of a Discrete, Folded Domain of Influenza Virus Polymerase PB2 Subunit. <i>PLoS Pathogens</i> , 2008, 4, e1000136.	2.1	165
69	An Antifungal Agent Inhibits an Aminoacyl-tRNA Synthetase by Trapping tRNA in the Editing Site. <i>Science</i> , 2007, 316, 1759-1761.	6.0	556
70	Solution Structure of NOD1 CARD and Mutational Analysis of its Interaction with the CARD of Downstream Kinase RICK. <i>Journal of Molecular Biology</i> , 2007, 365, 160-174.	2.0	69
71	Structure and nuclear import function of the C-terminal domain of influenza virus polymerase PB2 subunit. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 229-233.	3.6	275
72	Specificity of recognition of mRNA 5' cap by human nuclear cap-binding complex. <i>Rna</i> , 2005, 11, 1355-1363.	1.6	59

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73	Large-scale induced fit recognition of an m7GpppG cap analogue by the human nuclear cap-binding complex. <i>EMBO Journal</i> , 2002, 21, 5548-5557.	3.5	171
74	Crystal Structure of the Human Nuclear Cap Binding Complex. <i>Molecular Cell</i> , 2001, 8, 383-396.	4.5	126
75	Hierarchical assembly of the Alu domain of the mammalian signal recognition particle. <i>Rna</i> , 2001, 7, 731-740.	1.6	31
76	The 2 Å... crystal structure of leucyl-tRNA synthetase and its complex with a leucyl-adenylate analogue. <i>EMBO Journal</i> , 2000, 19, 2351-2361.	3.5	244
77	A triple $\hat{1}^2$ -spiral in the adenovirus fibre shaft reveals a new structural motif for a fibrous protein. <i>Nature</i> , 1999, 401, 935-938.	13.7	310
78	Escherichia coli SecA shape and dimensions. <i>FEBS Letters</i> , 1998, 436, 277-282.	1.3	46
79	The structure of the Escherichia coli EF-Tu EF-Ts complex at 2.5 Å... resolution. <i>Nature</i> , 1996, 379, 511-518.	13.7	307
80	Eleven down and nine to go. <i>Nature Structural Biology</i> , 1995, 2, 824-831.	9.7	192
81	Crystallization of the seryl-tRNA synthetase: tRNA ^{ser} complex of Escherichia coli. <i>FEBS Letters</i> , 1993, 324, 167-170.	1.3	36
82	Sequence, structural and evolutionary relationships between class 2 aminoacyl-tRNA synthetases. <i>Nucleic Acids Research</i> , 1991, 19, 3489-3498.	6.5	270
83	A second class of synthetase structure revealed by X-ray analysis of Escherichia coli seryl-tRNA synthetase at 2.5 Å... <i>Nature</i> , 1990, 347, 249-255.	13.7	667
84	Direct Measurement of Hydration-Related Dynamic Changes in Lysozyme using Inelastic Neutron Scattering Spectroscopy. <i>Journal of Biomolecular Structure and Dynamics</i> , 1987, 4, 583-588.	2.0	34
85	Variation of longitudinal acoustic velocity at gigahertz frequencies with water content in rat-tail tendon fibers. <i>Biopolymers</i> , 1984, 23, 337-351.	1.2	39
86	Inelastic neutron scattering analysis of hexokinase dynamics and its modification on binding of glucose. <i>Nature</i> , 1982, 300, 84-86.	13.7	56