Nuria Verdaguer

List of Publications by Year
in descending order

87 papers	3,860 citations	109137 35 h-index	133063 59 g-index
94 all docs	94 docs citations	94 times ranked	3421 citing authors

#	Article	IF	Citations
1	Ca2+ bridges the C2 membrane-binding domain of protein kinase CÎ± directly to phosphatidylserine. EMBO Journal, 1999, 18, 6329-6338.	3.5	323
2	A comparison of viral RNA-dependent RNA polymerases. Current Opinion in Structural Biology, 2006, 16, 27-34.	2.6	205
3	Structure of Foot-and-Mouth Disease Virus RNA-dependent RNA Polymerase and Its Complex with a Template-Primer RNA. Journal of Biological Chemistry, 2004, 279, 47212-47221.	1.6	198
4	X-ray structure of a minor group human rhinovirus bound to a fragment of its cellular receptor protein. Nature Structural and Molecular Biology, 2004, 11, 429-434.	3.6	143
5	Multiple Virulence Determinants of Foot-and-Mouth Disease Virus in Cell Culture. Journal of Virology, 1998, 72, 6362-6372.	1.5	141
6	The structure of a protein primerâ€"polymerase complex in the initiation of genome replication. EMBO Journal, 2006, 25, 880-888.	3.5	124
7	Sequential structures provide insights into the fidelity of RNA replication. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9463-9468.	3.3	113
8	Crystal structure of catalase HPII from Escherichia coli. Structure, 1995, 3, 491-502.	1.6	99
9	Structural and mechanistic insights into the association of PKCÎ±-C2 domain to PtdIns(4,5)P ₂. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6603-6607.	3.3	99
10	Insights into Minor Group Rhinovirus Uncoating: The X-ray Structure of the HRV2 Empty Capsid. PLoS Pathogens, 2012, 8, e1002473.	2.1	98
11	Structure of the C2 domain from novel protein kinase CÎµ. A membrane binding model for Ca2+-independent C2 domains. Journal of Molecular Biology, 2001, 311, 837-849.	2.0	97
12	A Multi-Step Process of Viral Adaptation to a Mutagenic Nucleoside Analogue by Modulation of Transition Types Leads to Extinction-Escape. PLoS Pathogens, 2010, 6, e1001072.	2.1	83
13	Activation mechanism of a noncanonical RNA-dependent RNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20540-20545.	3.3	80
14	Retinoic Acid Binds to the C2-Domain of Protein Kinase CÎ±â€. Biochemistry, 2003, 42, 8774-8779.	1.2	76
15	Additional Binding Sites for Anionic Phospholipids and Calcium Ions in the Crystal Structures of Complexes of the C2 Domain of Protein Kinase CÎ±. Journal of Molecular Biology, 2002, 320, 277-291.	2.0	74
16	Induced Pocket to Accommodate the Cell Attachment Arg-Gly-Asp Motif in a Neutralizing Antibody Against Foot-and-Mouth-Disease Virus. Journal of Molecular Biology, 1996, 256, 364-376.	2.0	69
17	A Similar Pattern of Interaction for Different Antibodies with a Major Antigenic Site of Foot-and-Mouth Disease Virus: Implications for Intratypic Antigenic Variation. Journal of Virology, 1998, 72, 739-748.	1.5	69
18	Structural insights into the Ca ²⁺ and PI(4,5)P ₂ binding modes of the C2 domains of rabphilin 3A and synaptotagmin 1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20503-20508.	3.3	64

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19	The 2.6-Angstrom Structure of Infectious Bursal Disease Virus-Derived T=1 Particles Reveals New Stabilizing Elements of the Virus Capsid. Journal of Virology, 2006, 80, 6895-6905.	1.5	60
20	Evolution of Cell Recognition by Viruses: A Source of Biological Novelty with Medical Implications. Advances in Virus Research, 2003, 62, 19-111.	0.9	58
21	Structural insights into replication initiation and elongation processes by the FMDV RNA-dependent RNA polymerase. Current Opinion in Structural Biology, 2009, 19, 752-758.	2.6	56
22	Rapid Selection in Modified BHK-21 Cells of a Foot-and-Mouth Disease Virus Variant Showing Alterations in Cell Tropism. Journal of Virology, 1998, 72, 10171-10179.	1.5	56
23	Role of Motif B Loop in Allosteric Regulation of RNA-Dependent RNA Polymerization Activity. Journal of Molecular Biology, 2013, 425, 2279-2287.	2.0	55
24	The RNA Template Channel of the RNA-Dependent RNA Polymerase as a Target for Development of Antiviral Therapy of Multiple Genera within a Virus Family. PLoS Pathogens, 2015, 11, e1004733.	2.1	55
25	Flexibility of the Major Antigenic Loop of Foot-and-Mouth Disease Virus Bound to a Fab Fragment of a Neutralising Antibody: Structure and Neutralisation. Virology, 1999, 255, 260-268.	1.1	53
26	RNA-Dependent RNA Polymerases of Picornaviruses: From the Structure to Regulatory Mechanisms. Viruses, 2015, 7, 4438-4460.	1.5	53
27	Molecular structure of a complete turn of A-DNA. Journal of Molecular Biology, 1991, 221, 623-635.	2.0	51
28	Uncoating of common cold virus is preceded by RNA switching as determined by X-ray and cryo-EM analyses of the subviral A-particle. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20063-20068.	3.3	51
29	Structure of Foot-and-Mouth Disease Virus Mutant Polymerases with Reduced Sensitivity to Ribavirin. Journal of Virology, 2010, 84, 6188-6199.	1.5	50
30	The coat protein of Rabbit hemorrhagic disease virus contains a molecular switch at the N-terminal region facing the inner surface of the capsid. Virology, 2004, 322, 118-134.	1.1	49
31	Infectious Bursal Disease Virus Capsid Assembly and Maturation by Structural Rearrangements of a Transient Molecular Switch. Journal of Virology, 2007, 81, 6869-6878.	1.5	45
32	Mutant Viral Polymerase in the Transition of Virus to Error Catastrophe Identifies a Critical Site for RNA Binding. Journal of Molecular Biology, 2005, 353, 1021-1032.	2.0	42
33	Autoproteolytic Activity Derived from the Infectious Bursal Disease Virus Capsid Protein. Journal of Biological Chemistry, 2009, 284, 8064-8072.	1.6	40
34	The T=1 Capsid Protein of <i>Penicillium chrysogenum</i> Virus Is Formed by a Repeated Helix-Rich Core Indicative of Gene Duplication. Journal of Virology, 2010, 84, 7256-7266.	1.5	39
35	Viral RNA-Dependent RNA Polymerases: A Structural Overview. Sub-Cellular Biochemistry, 2018, 88, 39-71.	1.0	38
36	Supramolecular arrangement of the full-length Zika virus NS5. PLoS Pathogens, 2019, 15, e1007656.	2.1	38

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37	Molecular evolution of aphthoviruses. Virus Genes, 1995, 11, 197-207.	0.7	37
38	A multiply substituted Gâ€"H loop from foot-and-mouth disease virus in complex with a neutralizing antibody: a role for water molecules. Journal of General Virology, 2000, 81, 1495-1505.	1.3	37
39	Structural Insights into the Multifunctional Protein VP3 of Birnaviruses. Structure, 2008, 16, 29-37.	1.6	37
40	Structural characterization of the Rabphilin-3Aâ€"SNAP25 interaction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5343-E5351.	3.3	37
41	Mechanical Stability and Reversible Fracture of Vault Particles. Biophysical Journal, 2014, 106, 687-695.	0.2	36
42	Cryo-EM near-atomic structure of a dsRNA fungal virus shows ancient structural motifs preserved in the dsRNA viral lineage. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7641-7646.	3.3	32
43	Structure of eIF4E in Complex with an eIF4G Peptide Supports a Universal Bipartite Binding Mode for Protein Translation. Plant Physiology, 2017, 174, 1476-1491.	2.3	32
44	The mechanism of vault opening from the high resolution structure of the N-terminal repeats of MVP. EMBO Journal, 2009, 28, 3450-3457.	3.5	30
45	A novel benzonitrile analogue inhibits rhinovirus replication. Journal of Antimicrobial Chemotherapy, 2014, 69, 2723-2732.	1.3	27
46	Infectious Bursal Disease Virus VP3 Upregulates VP1-Mediated RNA-Dependent RNA Replication. Journal of Virology, 2015, 89, 11165-11168.	1.5	27
47	Minor group human rhinovirusâ€"receptor interactions: Geometry of multimodular attachment and basis of recognition. FEBS Letters, 2009, 583, 235-240.	1.3	26
48	Epitope Insertion at the N-Terminal Molecular Switch of the Rabbit Hemorrhagic Disease Virus T=3 Capsid Protein Leads to Larger T=4 Capsids. Journal of Virology, 2012, 86, 6470-6480.	1.5	25
49	The Structure of the RNA-Dependent RNA Polymerase of a Permutotetravirus Suggests a Link between Primer-Dependent and Primer-Independent Polymerases. PLoS Pathogens, 2015, 11, e1005265.	2.1	25
50	The Crystal Structure of a Cardiovirus RNA-Dependent RNA Polymerase Reveals an Unusual Conformation of the Polymerase Active Site. Journal of Virology, 2014, 88, 5595-5607.	1.5	24
51	Viruses and viral proteins. IUCrJ, 2014, 1, 492-504.	1.0	24
52	Structural basis for biologically relevant mechanical stiffening of a virus capsid by cavity-creating or spacefilling mutations. Scientific Reports, 2017, 7, 4101.	1.6	23
53	Antigenically Profound Amino Acid Substitutions Occur during Large Population Passages of Foot-and-Mouth Disease Virus. Virology, 1996, 225, 400-405.	1.1	22
54	Multifunctionality of a Picornavirus Polymerase Domain: Nuclear Localization Signal and Nucleotide Recognition. Journal of Virology, 2015, 89, 6848-6859.	1.5	22

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55	Cryo-EM structure of pleconaril-resistant rhinovirus-B5 complexed to the antiviral OBR-5-340 reveals unexpected binding site. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19109-19115.	3.3	22
56	Structure of Swine Vesicular Disease Virus: Mapping of Changes Occurring during Adaptation of Human Coxsackie B5 Virus To Infect Swine. Journal of Virology, 2003, 77, 9780-9789.	1.5	21
57	Vault particles: a new generation of delivery nanodevices. Current Opinion in Biotechnology, 2012, 23, 972-977.	3.3	19
58	Multimerization of Zika Virus-NS5 Causes Ciliopathy and Forces Premature Neurogenesis. Cell Stem Cell, 2020, 27, 920-936.e8.	5.2	18
59	Both <i>cis</i> and <i>trans</i> Activities of Foot-and-Mouth Disease Virus 3D Polymerase Are Essential for Viral RNA Replication. Journal of Virology, 2016, 90, 6864-6883.	1.5	17
60	Decrease in pH destabilizes individual vault nanocages by weakening the inter-protein lateral interaction. Scientific Reports, 2016, 6, 34143.	1.6	17
61	Structural Basis for Host Membrane Remodeling Induced by Protein 2B of Hepatitis A Virus. Journal of Virology, 2015, 89, 3648-3658.	1.5	16
62	SARS-CoV-2 Mutant Spectra at Different Depth Levels Reveal an Overwhelming Abundance of Low Frequency Mutations. Pathogens, 2022, 11, 662.	1.2	16
63	Amino Acid Substitutions Associated with Treatment Failure for Hepatitis C Virus Infection. Journal of Clinical Microbiology, 2020, 58, .	1.8	15
64	Structural Variability of A-DNA in Crystals of the Octamer d(pCpCpCpGpCpGpGpG). Journal of Biomolecular Structure and Dynamics, 1997, 15, 151-163.	2.0	14
65	Molecular and Functional Bases of Selection against a Mutation Bias in an RNA Virus. Genome Biology and Evolution, 2017, 9, 1212-1228.	1.1	13
66	New features of vault architecture and dynamics revealed by novel refinement using the deformable elastic network approach. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1054-1061.	2.5	12
67	SARS-CoV-2 Point Mutation and Deletion Spectra and Their Association with Different Disease Outcomes. Microbiology Spectrum, 2022, 10, e0022122.	1.2	10
68	Symmetry disruption commits vault particles to disassembly. Science Advances, 2022, 8, eabj7795.	4.7	9
69	Conformational Changes in Motif D of RdRPs as Fidelity Determinant. Structure, 2012, 20, 1448-1450.	1.6	8
70	X-Ray Crystallography of Viruses. Sub-Cellular Biochemistry, 2013, 68, 117-144.	1.0	8
71	Crystallization and preliminary X-ray analysis of clade I catalases fromPseudomonas syringaeandListeria seeligeri. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1184-1186.	2.5	6
72	Crystallization and preliminary X-ray analysis of the glycogen synthase fromPyrococcus abyssi. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2322-2324.	2.5	6

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73	The need for a shared database infrastructure: combining X-ray crystallography and electron microscopy. European Biophysics Journal, 2000, 29, 457-462.	1.2	5
74	Contribution of a Multifunctional Polymerase Region of Foot-and-Mouth Disease Virus to Lethal Mutagenesis. Journal of Virology, 2018, 92, .	1.5	5
75	Snapshots of a Non-Canonical RdRP in Action. Viruses, 2021, 13, 1260.	1.5	5
76	Functional and Structural Aspects of the Interaction of Foot-and-Mouth Disease Virus with Antibodies. , 2004, , 224-260.		5
77	Crystallization and preliminary X-ray analysis of human rhinovirus serotype 2 (HRV2). Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1459-1461.	2.5	4
78	Preliminary analysis of two and three dimensional crystals of vault ribonucleoprotein particles. Journal of Structural Biology, 2005, 151, 111-115.	1.3	4
79	Crystallization and preliminary X-ray analysis of swine vesicular disease virus (SVDV). Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 541-543.	2.5	3
80	RNA Virus Polymerases. , 2009, , 383-401.		3
81	Cloning, purification and preliminary crystallographic studies of the 2AB protein from hepatitis A virus. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1224-1227.	0.7	3
82	Purification, crystallization and preliminary X-ray diffraction analysis of the RNA-dependent RNA polymerase fromThosea asignavirus. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1263-1266.	0.7	3
83	(F)uridylylated Peptides Linked to VPg1 of Foot-and- Mouth Disease Virus (FMDV): Design, Synthesis and X-Ray Crystallography of the Complexes with FMDV RNA-Dependent RNA Polymerase. Molecules, 2019, 24, 2360.	1.7	2
84	Structure and Double-Stranded RNA-Binding Activity of the Birnavirus Drosophila X Virus VP3 Protein. Journal of Virology, 2021, 95, .	1.5	2
85	X-ray crystallography of virus-receptor complexes: structure of a minor group rhinovirus bound to its cellular receptor protein. Crystallography Reviews, 2005, 11, 73-81.	0.4	1
86	Structural Dynamics of Picornaviral RdRP Complexes. Implications for the Design of Antivirals. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 183-193.	0.5	0
87	Mutation, Quasispecies, and Lethal Mutagenesis. , 0, , 195-211.		0