

Dahai Luo

List of Publications by Year in descending order

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64
papers

3,972
citations

117625

34
h-index

128289

60
g-index

72
all docs

72
docs citations

72
times ranked

3980
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Insights into RNA Recognition by RIG-I. <i>Cell</i> , 2011, 147, 409-422.	28.9	337
2	Crystal Structure of the NS3 Protease-Helicase from Dengue Virus. <i>Journal of Virology</i> , 2008, 82, 173-183.	3.4	241
3	The flavivirus NS2B-NS3 protease-helicase as a target for antiviral drug development. <i>Antiviral Research</i> , 2015, 118, 148-158.	4.1	226
4	Insights into RNA unwinding and ATP hydrolysis by the flavivirus NS3 protein. <i>EMBO Journal</i> , 2008, 27, 3209-3219.	7.8	221
5	Towards the design of antiviral inhibitors against flaviviruses: The case for the multifunctional NS3 protein from Dengue virus as a target. <i>Antiviral Research</i> , 2008, 80, 94-101.	4.1	184
6	A Crystal Structure of the Dengue Virus NS5 Protein Reveals a Novel Inter-domain Interface Essential for Protein Flexibility and Virus Replication. <i>PLoS Pathogens</i> , 2015, 11, e1004682.	4.7	180
7	Structure of the NS2B-NS3 protease from Zika virus after self-cleavage. <i>Nature Communications</i> , 2016, 7, 13410.	12.8	169
8	Crystal structure of unlinked NS2B-NS3 protease from Zika virus. <i>Science</i> , 2016, 354, 1597-1600.	12.6	156
9	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. <i>Nucleic Acids Research</i> , 2019, 47, e130-e130.	14.5	124
10	Flexibility between the Protease and Helicase Domains of the Dengue Virus NS3 Protein Conferred by the Linker Region and Its Functional Implications. <i>Journal of Biological Chemistry</i> , 2010, 285, 18817-18827.	3.4	120
11	The C-terminal 50 Amino Acid Residues of Dengue NS3 Protein Are Important for NS3-NS5 Interaction and Viral Replication. <i>Journal of Biological Chemistry</i> , 2015, 290, 2379-2394.	3.4	105
12	Defining the functional determinants for RNA surveillance by RIG-I. <i>EMBO Reports</i> , 2013, 14, 772-779.	4.5	97
13	The Hexamer Structure of the Rift Valley Fever Virus Nucleoprotein Suggests a Mechanism for its Assembly into Ribonucleoprotein Complexes. <i>PLoS Pathogens</i> , 2011, 7, e1002030.	4.7	93
14	Molecular basis for specific viral RNA recognition and 2'-O-ribose methylation by the dengue virus nonstructural protein 5 (NS5). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14834-14839.	7.1	89
15	Luteolin restricts dengue virus replication through inhibition of the proprotein convertase furin. <i>Antiviral Research</i> , 2017, 143, 176-185.	4.1	86
16	Structural Dynamics of Zika Virus NS2B-NS3 Protease Binding to Dipeptide Inhibitors. <i>Structure</i> , 2017, 25, 1242-1250.e3.	3.3	83
17	Zika Virus Protease: An Antiviral Drug Target. <i>Trends in Microbiology</i> , 2017, 25, 797-808.	7.7	80
18	Visualizing the Determinants of Viral RNA Recognition by Innate Immune Sensor RIG-I. <i>Structure</i> , 2012, 20, 1983-1988.	3.3	73

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19	Structural Insights into the Inhibition of Zika Virus NS2B-NS3 Protease by a Small-Molecule Inhibitor. <i>Structure</i> , 2018, 26, 555-564.e3.	3.3	70
20	The C-terminal 18 Amino Acid Region of Dengue Virus NS5 Regulates its Subcellular Localization and Contains a Conserved Arginine Residue Essential for Infectious Virus Production. <i>PLoS Pathogens</i> , 2016, 12, e1005886.	4.7	66
21	Structure-Based Mutational Analysis of the NS3 Helicase from Dengue Virus. <i>Journal of Virology</i> , 2006, 80, 6686-6690.	3.4	62
22	NS3 helicase from dengue virus specifically recognizes viral RNA sequence to ensure optimal replication. <i>Nucleic Acids Research</i> , 2017, 45, 12904-12920.	14.5	61
23	Duplex RNA activated ATPases (DRAs). <i>RNA Biology</i> , 2013, 10, 111-120.	3.1	59
24	Structures of Zika virus NS2B-NS3 protease in complex with peptidomimetic inhibitors. <i>Antiviral Research</i> , 2018, 160, 17-24.	4.1	52
25	Complementary regulation of caspase-1 and IL-1 β reveals additional mechanisms of dampened inflammation in bats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28939-28949.	7.1	51
26	Structural insights into RNA recognition by the Chikungunya virus nsP2 helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9558-9567.	7.1	50
27	Biocompatible Macrocyclization between Cysteine and 2-Cyanopyridine Generates Stable Peptide Inhibitors. <i>Organic Letters</i> , 2019, 21, 4709-4712.	4.6	46
28	High-resolution HDX-MS reveals distinct mechanisms of RNA recognition and activation by RIG-I and MDA5. <i>Nucleic Acids Research</i> , 2015, 43, 1216-1230.	14.5	45
29	RIG-I-Like Receptors as Novel Targets for Pan-Antivirals and Vaccine Adjuvants Against Emerging and Re-Emerging Viral Infections. <i>Frontiers in Immunology</i> , 2018, 9, 1379.	4.8	44
30	A Short Chemically Modified dsRNA-Binding PNA (dbPNA) Inhibits Influenza Viral Replication by Targeting Viral RNA Panhandle Structure. <i>Bioconjugate Chemistry</i> , 2019, 30, 931-943.	3.6	44
31	Functional interplay among the flavivirus NS3 protease, helicase, and cofactors. <i>Virologica Sinica</i> , 2014, 29, 74-85.	3.0	43
32	Structural insights into viral RNA capping and plasma membrane targeting by Chikungunya virus nonstructural protein 1. <i>Cell Host and Microbe</i> , 2021, 29, 757-764.e3.	11.0	43
33	Flexibility of NS5 Methyltransferase-Polymerase Linker Region Is Essential for Dengue Virus Replication. <i>Journal of Virology</i> , 2015, 89, 10717-10721.	3.4	41
34	Chikungunya virus nsP4 RNA-dependent RNA polymerase core domain displays detergent-sensitive primer extension and terminal adenylyltransferase activities. <i>Antiviral Research</i> , 2017, 143, 38-47.	4.1	39
35	Structural characterization of the linked NS2B-NS3 protease of Zika virus. <i>FEBS Letters</i> , 2017, 591, 2338-2347.	2.8	35
36	Crystal Structure of the Dengue Virus Methyltransferase Bound to a 5'-Capped Octameric RNA. <i>PLoS ONE</i> , 2010, 5, e12836.	2.5	34

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37	Robust delivery of RIG-I agonists using extracellular vesicles for anti-cancer immunotherapy. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12187.	12.2	33
38	Molecular Insights into the Flavivirus Replication Complex. <i>Viruses</i> , 2021, 13, 956.	3.3	31
39	Structure-Based Macrocyclization of Substrate Analogue NS2B-NS3 Protease Inhibitors of Zika, West Nile and Dengue viruses. <i>ChemMedChem</i> , 2020, 15, 1439-1452.	3.2	29
40	The RIG-I ATPase core has evolved a functional requirement for allosteric stabilization by the Pincer domain. <i>Nucleic Acids Research</i> , 2014, 42, 11601-11611.	14.5	23
41	Ordered assembly of the cytosolic RNA-sensing MDA5-MAVS signaling complex via binding to unanchored K63-linked poly-ubiquitin chains. <i>Immunity</i> , 2021, 54, 2218-2230.e5.	14.3	23
42	Cell-active carbazole derivatives as inhibitors of the zika virus protease. <i>European Journal of Medicinal Chemistry</i> , 2019, 180, 536-545.	5.5	21
43	2-Cyanoisonicotinamide Conjugation: A Facile Approach to Generate Potent Peptide Inhibitors of the Zika Virus Protease. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 732-737.	2.8	21
44	Crystal structures of alphavirus nonstructural protein 4 (nsP4) reveal an intrinsically dynamic RNA-dependent RNA polymerase fold. <i>Nucleic Acids Research</i> , 2022, 50, 1000-1016.	14.5	20
45	Towards the Design of Flavivirus Helicase/NTPase Inhibitors: Crystallographic and Mutagenesis Studies of the Dengue Virus NS3 Helicase Catalytic Domain. <i>Novartis Foundation Symposium</i> , 2008, 277, 87-101.	1.1	19
46	The Linker Region of NS3 Plays a Critical Role in the Replication and Infectivity of Hepatitis C Virus. <i>Journal of Virology</i> , 2014, 88, 10970-10974.	3.4	19
47	Luteolin escape mutants of dengue virus map to prM and NS2B and reveal viral plasticity during maturation. <i>Antiviral Research</i> , 2018, 154, 87-96.	4.1	18
48	Modulation of Lymphocyte Potassium Channel $K_{v}1.3$ by Membrane-Penetrating, Joint-Targeting Immunomodulatory Plant Defensin. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 720-736.	4.9	18
49	Interdomain Flexibility of Chikungunya Virus nsP2 Helicase-Protease Differentially Influences Viral RNA Replication and Infectivity. <i>Journal of Virology</i> , 2021, 95, .	3.4	18
50	Toward a crystal-clear view of the viral RNA sensing and response by RIG-I-like receptors. <i>RNA Biology</i> , 2014, 11, 25-32.	3.1	16
51	Identification and structural characterization of small molecule fragments targeting Zika virus NS2B-NS3 protease. <i>Antiviral Research</i> , 2020, 175, 104707.	4.1	15
52	Crystal structures of full length DENV4 NS2B-NS3 reveal the dynamic interaction between NS2B and NS3. <i>Antiviral Research</i> , 2020, 182, 104900.	4.1	12
53	RIG-I Activation by a Designer Short RNA Ligand Protects Human Immune Cells against Dengue Virus Infection without Causing Cytotoxicity. <i>Journal of Virology</i> , 2019, 93, .	3.4	11
54	Sex Steroids Induce Membrane Stress Responses and Virulence Properties in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2020, 11, .	4.1	10

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55	A loosened gating mechanism of RIG-I leads to autoimmune disorders. <i>Nucleic Acids Research</i> , 2022, 50, 5850-5863.	14.5	9
56	Amidoxime prodrugs convert to potent cell-active multimodal inhibitors of the dengue virus protease. <i>European Journal of Medicinal Chemistry</i> , 2021, 224, 113695.	5.5	7
57	A conserved arginine in NS5 binds genomic 3' stem-loop RNA for primer-independent initiation of flavivirus RNA replication. <i>Rna</i> , 2022, 28, 177-193.	3.5	7
58	Structure-Based Optimization and Characterization of Macrocyclic Zika Virus NS2B-NS3 Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6555-6572.	6.4	7
59	Structure-guided design of immunomodulatory RNAs specifically targeting the cytoplasmic viral RNA sensor RIG-I. <i>FEBS Letters</i> , 2019, 593, 3003-3014.	2.8	6
60	LC-MS assay targeting the mycobacterial indirect aminoacylation pathway uncovers glutaminase activities of the nondiscriminating aspartyl-synthetase. <i>FEBS Letters</i> , 2020, 594, 2159-2167.	2.8	4
61	Insights into the structure and RNA-binding specificity of <i>Caenorhabditis elegans</i> Dicer-related helicase 3 (DRH-3). <i>Nucleic Acids Research</i> , 2021, 49, 9978-9991.	14.5	4
62	Dynamic Interactions of Post Cleaved NS2B Cofactor and NS3 Protease Identified by Integrative Structural Approaches. <i>Viruses</i> , 2022, 14, 1440.	3.3	4
63	Crystal structure of the Rubella virus protease reveals a unique papain-like protease fold. <i>Journal of Biological Chemistry</i> , 2022, 298, 102250.	3.4	4
64	Intranasal Delivery of RIG-I Agonist Drives Pulmonary Myeloid Cell Activation in Mice. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	2