Dahai Luo

List of Publications by Year
in descending order

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64	3,972	117625	128289
papers	citations	34 h-index	60 g-index

72	72	72	3980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A conserved arginine in NS5 binds genomic 3â€² stemâ€“loop RNA for primer-independent initiation of flavivirus RNA replication. Rna, 2022, 28, 177-193.	3.5	7
2	Crystal structures of alphavirus nonstructural protein 4 (nsP4) reveal an intrinsically dynamic RNA-dependent RNA polymerase fold. Nucleic Acids Research, 2022, 50, 1000-1016.	14.5	20
3	Robust delivery of RIGâ€‐I agonists using extracellular vesicles for antiâ€cancer immunotherapy. Journal of Extracellular Vesicles, 2022, 11, e12187.	12.2	33
4	A loosened gating mechanism of RIG-I leads to autoimmune disorders. Nucleic Acids Research, 2022, 50, 5850-5863.	14.5	9
5	Structure-Based Optimization and Characterization of Macrocyclic Zika Virus NS2B-NS3 Protease Inhibitors. Journal of Medicinal Chemistry, 2022, 65, 6555-6572.	6.4	7
6	Dynamic Interactions of Post Cleaved NS2B Cofactor and NS3 Protease Identified by Integrative Structural Approaches. Viruses, 2022, 14, 1440.	3.3	4
7	Crystal structure of the Rubella virus protease reveals a unique papain-like protease fold. Journal of Biological Chemistry, 2022, 298, 102250.	3.4	4
8	Interdomain Flexibility of Chikungunya Virus nsP2 Helicase-Protease Differentially Influences Viral RNA Replication and Infectivity. Journal of Virology, 2021, 95, .	3.4	18
9	2-Cyanoisonicotinamide Conjugation: A Facile Approach to Generate Potent Peptide Inhibitors of the Zika Virus Protease. ACS Medicinal Chemistry Letters, 2021, 12, 732-737.	2.8	21
10	Structural insights into viral RNA capping and plasma membrane targeting by Chikungunya virus nonstructural protein 1. Cell Host and Microbe, 2021, 29, 757-764.e3.	11.0	43
11	Molecular Insights into the Flavivirus Replication Complex. Viruses, 2021, 13, 956.	3.3	31
12	Insights into the structure and RNA-binding specificity of Caenorhabditis elegans Dicer-related helicase 3 (DRH-3). Nucleic Acids Research, 2021, 49, 9978-9991.	14.5	4
13	Amidoxime prodrugs convert to potent cell-active multimodal inhibitors of the dengue virus protease. European Journal of Medicinal Chemistry, 2021, 224, 113695.	5.5	7
14	Ordered assembly of the cytosolic RNA-sensing MDA5-MAVS signaling complex via binding to unanchored K63-linked poly-ubiquitin chains. Immunity, 2021, 54, 2218-2230.e5.	14.3	23
15	Sex Steroids Induce Membrane Stress Responses and Virulence Properties in Pseudomonas aeruginosa. MBio, 2020, 11, .	4.1	10
16	Crystal structures of full length DENV4 NS2B-NS3 reveal the dynamic interaction between NS2B and NS3. Antiviral Research, 2020, 182, 104900.	4.1	12
17	Complementary regulation of caspase-1 and IL-1Î² reveals additional mechanisms of dampened inflammation in bats. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28939-28949.	7.1	51
18	Modulation of Lymphocyte Potassium Channel K_V1.3 by Membrane-Penetrating, Joint-Targeting Immunomodulatory Plant Defensin. ACS Pharmacology and Translational Science, 2020, 3, 720-736.	4.9	18

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19	Structureâ€Based Macrocyclization of Substrate Analogue NS2Bâ€NS3 Protease Inhibitors of Zika, West Nile and Dengue viruses. ChemMedChem, 2020, 15, 1439-1452.	3.2	29
20	Identification and structural characterization of small molecule fragments targeting Zika virus NS2B-NS3 protease. Antiviral Research, 2020, 175, 104707.	4.1	15
21	LCâ€MS assay targeting the mycobacterial indirect aminoacylation pathway uncovers glutaminase activities of the nondiscriminating aspartylâ€synthetase. FEBS Letters, 2020, 594, 2159-2167.	2.8	4
22	Structureâ€guided design of immunomodulatory RNA s specifically targeting the cytoplasmic viral RNA sensor RIG â€I. FEBS Letters, 2019, 593, 3003-3014.	2.8	6
23	Cell-active carbazole derivatives as inhibitors of the zika virus protease. European Journal of Medicinal Chemistry, 2019, 180, 536-545.	5.5	21
24	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. Nucleic Acids Research, 2019, 47, e130-e130.	14.5	124
25	Biocompatible Macrocyclization between Cysteine and 2-Cyanopyridine Generates Stable Peptide Inhibitors. Organic Letters, 2019, 21, 4709-4712.	4.6	46
26	Structural insights into RNA recognition by the Chikungunya virus nsP2 helicase. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9558-9567.	7.1	50
27	RIG-I Activation by a Designer Short RNA Ligand Protects Human Immune Cells against Dengue Virus Infection without Causing Cytotoxicity. Journal of Virology, 2019, 93, .	3.4	11
28	A Short Chemically Modified dsRNA-Binding PNA (dbPNA) Inhibits Influenza Viral Replication by Targeting Viral RNA Panhandle Structure. Bioconjugate Chemistry, 2019, 30, 931-943.	3.6	44
29	Luteolin escape mutants of dengue virus map to prM and NS2B and reveal viral plasticity during maturation. Antiviral Research, 2018, 154, 87-96.	4.1	18
30	Structural Insights into the Inhibition of Zika Virus NS2B-NS3 Protease by a Small-Molecule Inhibitor. Structure, 2018, 26, 555-564.e3.	3.3	70
31	Structures of Zika virus NS2B-NS3 protease in complex with peptidomimetic inhibitors. Antiviral Research, 2018, 160, 17-24.	4.1	52
32	RIG-I-Like Receptors as Novel Targets for Pan-Antivirals and Vaccine Adjuvants Against Emerging and Re-Emerging Viral Infections. Frontiers in Immunology, 2018, 9, 1379.	4.8	44
33	Chikungunya virus nsP4 RNA-dependent RNA polymerase core domain displays detergent-sensitive primer extension and terminal adenylyltransferase activities. Antiviral Research, 2017, 143, 38-47.	4.1	39
34	Luteolin restricts dengue virus replication through inhibition of the proprotein convertase furin. Antiviral Research, 2017, 143, 176-185.	4.1	86
35	Structural characterization of the linked <scp>NS</scp>2Bâ€<scp>NS</scp>3 protease of Zika virus. FEBS Letters, 2017, 591, 2338-2347.	2.8	35
36	Zika Virus Protease: An Antiviral Drug Target. Trends in Microbiology, 2017, 25, 797-808.	7.7	80

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37	Structural Dynamics of Zika Virus NS2B-NS3 Protease Binding to Dipeptide Inhibitors. Structure, 2017, 25, 1242-1250.e3.	3.3	83
38	NS3 helicase from dengue virus specifically recognizes viral RNA sequence to ensure optimal replication. Nucleic Acids Research, 2017, 45, 12904-12920.	14.5	61
39	Crystal structure of unlinked NS2B-NS3 protease from Zika virus. Science, 2016, 354, 1597-1600.	12.6	156
40	Structure of the NS2B-NS3 protease from Zika virus after self-cleavage. Nature Communications, 2016, 7, 13410.	12.8	169
41	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. PLoS Pathogens, 2016, 12, e1005886.	4.7	66
42	Molecular basis for specific viral RNA recognition and 2â€²-O-ribose methylation by the dengue virus nonstructural protein 5 (NS5). Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14834-14839.	7.1	89
43	High-resolution HDX-MS reveals distinct mechanisms of RNA recognition and activation by RIG-I and MDA5. Nucleic Acids Research, 2015, 43, 1216-1230.	14.5	45
44	The C-terminal 50 Amino Acid Residues of Dengue NS3 Protein Are Important for NS3-NS5 Interaction and Viral Replication. Journal of Biological Chemistry, 2015, 290, 2379-2394.	3.4	105
45	A Crystal Structure of the Dengue Virus NS5 Protein Reveals a Novel Inter-domain Interface Essential for Protein Flexibility and Virus Replication. PLoS Pathogens, 2015, 11, e1004682.	4.7	180
46	The flavivirus NS2Bâ€“NS3 proteaseâ€“helicase as a target for antiviral drug development. Antiviral Research, 2015, 118, 148-158.	4.1	226
47	Flexibility of NS5 Methyltransferase-Polymerase Linker Region Is Essential for Dengue Virus Replication. Journal of Virology, 2015, 89, 10717-10721.	3.4	41
48	Toward a crystal-clear view of the viral RNA sensing and response by RIG-I-like receptors. RNA Biology, 2014, 11, 25-32.	3.1	16
49	The RIG-I ATPase core has evolved a functional requirement for allosteric stabilization by the Pincer domain. Nucleic Acids Research, 2014, 42, 11601-11611.	14.5	23
50	Functional interplay among the flavivirus NS3 protease, helicase, and cofactors. Virologica Sinica, 2014, 29, 74-85.	3.0	43
51	The Linker Region of NS3 Plays a Critical Role in the Replication and Infectivity of Hepatitis C Virus. Journal of Virology, 2014, 88, 10970-10974.	3.4	19
52	Duplex RNA activated ATPases (DRAs). RNA Biology, 2013, 10, 111-120.	3.1	59
53	Defining the functional determinants for RNA surveillance by RIGâ€I. EMBO Reports, 2013, 14, 772-779.	4.5	97
54	Visualizing the Determinants of Viral RNA Recognition by Innate Immune Sensor RIG-I. Structure, 2012, 20, 1983-1988.	3.3	73

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55	Structural Insights into RNA Recognition by RIG-I. Cell, 2011, 147, 409-422.	28.9	337
56	The Hexamer Structure of the Rift Valley Fever Virus Nucleoprotein Suggests a Mechanism for its Assembly into Ribonucleoprotein Complexes. PLoS Pathogens, 2011, 7, e1002030.	4.7	93
57	Crystal Structure of the Dengue Virus Methyltransferase Bound to a 5â€²-Capped Octameric RNA. PLoS ONE, 2010, 5, e12836.	2.5	34
58	Flexibility between the Protease and Helicase Domains of the Dengue Virus NS3 Protein Conferred by the Linker Region and Its Functional Implications. Journal of Biological Chemistry, 2010, 285, 18817-18827.	3.4	120
59	Insights into RNA unwinding and ATP hydrolysis by the flavivirus NS3 protein. EMBO Journal, 2008, 27, 3209-3219.	7.8	221
60	Towards the design of antiviral inhibitors against flaviviruses: The case for the multifunctional NS3 protein from Dengue virus as a target. Antiviral Research, 2008, 80, 94-101.	4.1	184
61	Crystal Structure of the NS3 Protease-Helicase from Dengue Virus. Journal of Virology, 2008, 82, 173-183.	3.4	241
62	Towards the Design of Flavivirus Helicase/NTPase Inhibitors: Crystallographic and Mutagenesis Studies of the Dengue Virus NS3 Helicase Catalytic Domain. Novartis Foundation Symposium, 2008, 277, 87-101.	1.1	19
63	Structure-Based Mutational Analysis of the NS3 Helicase from Dengue Virus. Journal of Virology, 2006, 80, 6686-6690.	3.4	62
64	Intranasal Delivery of RIG-I Agonist Drives Pulmonary Myeloid Cell Activation in Mice. Frontiers in Immunology, 0, 13, .	4.8	2