

Hongmin Li

List of Publications by Year in descending order

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95
papers

5,560
citations

76326

40
h-index

82547

72
g-index

96
all docs

96
docs citations

96
times ranked

5889
citing authors

#	ARTICLE	IF	CITATIONS
1	West Nile Virus 5' Cap Structure Is Formed by Sequential Guanine N-7 and Ribose 2'-O Methylations by Nonstructural Protein 5. <i>Journal of Virology</i> , 2006, 80, 8362-8370.	3.4	329
2	Structure and Function of Flavivirus NS5 Methyltransferase. <i>Journal of Virology</i> , 2007, 81, 3891-3903.	3.4	324
3	Crystal structure of a T-cell receptor β -chain complexed with a superantigen. <i>Nature</i> , 1996, 384, 188-192.	27.8	295
4	THE STRUCTURAL BASIS OF T CELL ACTIVATION BY SUPERANTIGENS. <i>Annual Review of Immunology</i> , 1999, 17, 435-466.	21.8	294
5	Broad Spectrum Antiviral Agent Niclosamide and Its Therapeutic Potential. <i>ACS Infectious Diseases</i> , 2020, 6, 909-915.	3.8	252
6	Three-Dimensional Structure of the Complex between a T Cell Receptor β Chain and the Superantigen Staphylococcal Enterotoxin B. <i>Immunity</i> , 1998, 9, 807-816.	14.3	188
7	A Mutational Analysis of Binding Interactions in an Antigen-Antibody Protein-Protein Complex. <i>Biochemistry</i> , 1998, 37, 7981-7991.	2.5	157
8	Existing drugs as broad-spectrum and potent inhibitors for Zika virus by targeting NS2B-NS3 interaction. <i>Cell Research</i> , 2017, 27, 1046-1064.	12.0	153
9	X-ray snapshots of the maturation of an antibody response to a protein antigen. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 482-488.	8.2	151
10	A Mutational Analysis of the Binding of Staphylococcal Enterotoxins B and C3 to the T Cell Receptor β Chain and Major Histocompatibility Complex Class II. <i>Journal of Experimental Medicine</i> , 1998, 187, 823-833.	8.5	145
11	Transcription Factor Bcl11b Controls Identity and Function of Mature Type 2 Innate Lymphoid Cells. <i>Immunity</i> , 2015, 43, 354-368.	14.3	137
12	Crystal Structure of a Superantigen Bound to the High-Affinity, Zinc-Dependent Site on MHC Class II. <i>Immunity</i> , 2001, 14, 93-104.	14.3	134
13	Structural basis for the binding of an immunodominant peptide from myelin basic protein in different registers by two HLA-DR2 proteins. <i>Journal of Molecular Biology</i> , 2000, 304, 177-188.	4.2	131
14	Structure of the V β domain of a human β T-cell antigen receptor. <i>Nature</i> , 1998, 391, 502-506.	27.8	121
15	Structures of Two Streptococcal Superantigens Bound to TCR β Chains Reveal Diversity in the Architecture of T Cell Signaling Complexes. <i>Structure</i> , 2002, 10, 687-699.	3.3	116
16	A conformational switch high-throughput screening assay and allosteric inhibition of the flavivirus NS2B-NS3 protease. <i>PLoS Pathogens</i> , 2017, 13, e1006411.	4.7	116
17	Prospect of SARS-CoV-2 spike protein: Potential role in vaccine and therapeutic development. <i>Virus Research</i> , 2020, 288, 198141.	2.2	116
18	Immunoassay Targeting Nonstructural Protein 5 To Differentiate West Nile Virus Infection from Dengue and St. Louis Encephalitis Virus Infections and from Flavivirus Vaccination. <i>Journal of Clinical Microbiology</i> , 2003, 41, 4217-4223.	3.9	113

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19	Distinct RNA Elements Confer Specificity to Flavivirus RNA Cap Methylation Events. <i>Journal of Virology</i> , 2007, 81, 4412-4421.	3.4	109
20	West Nile Virus Methyltransferase Catalyzes Two Methylations of the Viral RNA Cap through a Substrate-Repositioning Mechanism. <i>Journal of Virology</i> , 2008, 82, 4295-4307.	3.4	105
21	Three-Dimensional Structures of the Free and Antigen-Bound Fab from Monoclonal Antilysozyme Antibody HyHEL-6. <i>Biochemistry</i> , 2000, 39, 6296-6309.	2.5	94
22	Crystal Structure of an Acidic Neurotoxin from Scorpion <i>Buthus martensii</i> Karsch at 1.85 Å Resolution. <i>Journal of Molecular Biology</i> , 1996, 261, 415-431.	4.2	89
23	Crystal structures of two β -like scorpion toxins: non-proline cis peptide bonds and implications for new binding site selectivity on the sodium channel α_1 . Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1999, 292, 125-135.	4.2	81
24	Structural Features of Nonpeptide Prenyl Pyrophosphates That Determine Their Antigenicity for Human α T Cells. <i>Journal of Immunology</i> , 2001, 167, 36-41.	0.8	74
25	Three-dimensional structure of H-2Dd complexed with an immunodominant peptide from human immunodeficiency virus envelope glycoprotein 120. <i>Journal of Molecular Biology</i> , 1998, 283, 179-191.	4.2	71
26	5-Silylated 1,2,3-triazolyl Thymidine Analogues as Inhibitors of West Nile Virus and Dengue Virus. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4016-4028.	6.4	67
27	The Human Polymeric Immunoglobulin Receptor Binds to <i>Streptococcus pneumoniae</i> via Domains 3 and 4. <i>Journal of Biological Chemistry</i> , 2003, 278, 48178-48187.	3.4	65
28	Flavivirus RNA cap methyltransferase: structure, function, and inhibition. <i>Frontiers in Biology</i> , 2010, 5, 286-303.	0.7	62
29	Erythrosin B is a potent and broad-spectrum orthosteric inhibitor of the flavivirus NS2B-NS3 protease. <i>Antiviral Research</i> , 2018, 150, 217-225.	4.1	61
30	Novel Broad Spectrum Inhibitors Targeting the Flavivirus Methyltransferase. <i>PLoS ONE</i> , 2015, 10, e0130062.	2.5	58
31	Hectd3 promotes pathogenic Th17 lineage through Stat3 activation and Malt1 signaling in neuroinflammation. <i>Nature Communications</i> , 2019, 10, 701.	12.8	57
32	Conservation of Nonpeptide Antigen Recognition by Rhesus Monkey α T Cells. <i>Journal of Immunology</i> , 2003, 170, 3696-3706.	0.8	52
33	Structural and Functional Analyses of a Conserved Hydrophobic Pocket of Flavivirus Methyltransferase. <i>Journal of Biological Chemistry</i> , 2010, 285, 32586-32595.	3.4	52
34	Selective inhibition of the West Nile virus methyltransferase by nucleoside analogs. <i>Antiviral Research</i> , 2013, 97, 232-239.	4.1	51
35	Identification and Characterization of Novel Broad-Spectrum Inhibitors of the Flavivirus Methyltransferase. <i>ACS Infectious Diseases</i> , 2015, 1, 340-349.	3.8	51
36	Superantigen Recognition by α T Cells. <i>Immunity</i> , 2001, 14, 331-344.	14.3	50

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37	Structure-function studies of T-cell receptor-superantigen interactions. <i>Immunological Reviews</i> , 1998, 163, 177-186.	6.0	48
38	The flavivirus protease as a target for drug discovery. <i>Virologica Sinica</i> , 2013, 28, 326-336.	3.0	47
39	The Structure of the <i>Candida albicans</i> Ess1 Prolyl Isomerase Reveals a Well-Ordered Linker that Restricts Domain Mobility,. <i>Biochemistry</i> , 2005, 44, 6180-6189.	2.5	46
40	The HECTD3 E3 ubiquitin ligase facilitates cancer cell survival by promoting K63-linked polyubiquitination of caspase-8. <i>Cell Death and Disease</i> , 2013, 4, e935-e935.	6.3	45
41	Crystal structure of a complete ternary complex of TCR, superantigen and peptide-MHC. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 169-171.	8.2	39
42	The HECTD3 E3 Ubiquitin Ligase Suppresses Cisplatin-Induced Apoptosis via Stabilizing MALT1. <i>Neoplasia</i> , 2013, 15, 39-IN15.	5.3	36
43	Separate molecules of West Nile virus methyltransferase can independently catalyze the N7 and 2' O-methylations of viral RNA cap. <i>Virology</i> , 2008, 377, 1-6.	2.4	33
44	Exploring Intein Inhibition by Platinum Compounds as an Antimicrobial Strategy. <i>Journal of Biological Chemistry</i> , 2016, 291, 22661-22670.	3.4	32
45	JMX0207, a Niclosamide Derivative with Improved Pharmacokinetics, Suppresses Zika Virus Infection Both <i>In Vitro</i> and <i>In Vivo</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 2616-2628.	3.8	32
46	Imperfect interfaces. <i>Nature Structural Biology</i> , 1998, 5, 412-414.	9.7	31
47	Structure of an insulin dimer in an orthorhombic crystal: the structure analysis of a human insulin mutant (B9 Ser \rightarrow Glu). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1524-1532.	2.5	29
48	Functional Interaction of CD154 Protein with $\alpha 5 \beta 1$ Integrin Is Totally Independent from Its Binding to $\alpha 1 \beta 2$ Integrin and CD40 Molecules. <i>Journal of Biological Chemistry</i> , 2012, 287, 18055-18066.	3.4	29
49	Three-dimensional Structure of Human β -Glutamyl Hydrolase. <i>Journal of Biological Chemistry</i> , 2002, 277, 24522-24529.	3.4	28
50	Spliceosomal Prp8 intein at the crossroads of protein and RNA splicing. <i>PLoS Biology</i> , 2019, 17, e3000104.	5.6	28
51	Targeting Crucial Host Factors of SARS-CoV-2. <i>ACS Infectious Diseases</i> , 2020, 6, 2844-2865.	3.8	28
52	Drug repurposing approach to combating coronavirus: Potential drugs and drug targets. <i>Medicinal Research Reviews</i> , 2021, 41, 1375-1426.	10.5	28
53	Mycobacterial DnaB helicase intein as oxidative stress sensor. <i>Nature Communications</i> , 2018, 9, 4363.	12.8	26
54	Methylene blue is a potent and broad-spectrum inhibitor against Zika virus <i>in vitro</i> and <i>in vivo</i> . <i>Emerging Microbes and Infections</i> , 2020, 9, 2404-2416.	6.5	26

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55	Contributions of Hepatic and Intestinal Metabolism to the Disposition of Niclosamide, a Repurposed Drug with Poor Bioavailability. <i>Drug Metabolism and Disposition</i> , 2019, 47, 756-763.	3.3	24
56	Allosteric inhibitors of the main protease of SARS-CoV-2. <i>Antiviral Research</i> , 2022, 205, 105381.	4.1	23
57	Crystal Structure of Mycoplasma arthritis Mitogen Complexed with HLA-DR1 Reveals a Novel Superantigen Fold and a Dimerized Superantigen-MHC Complex. <i>Structure</i> , 2004, 12, 277-288.	3.3	20
58	Cisplatin protects mice from challenge of <i>Cryptococcus neoformans</i> by targeting the Prp8 intein. <i>Emerging Microbes and Infections</i> , 2019, 8, 895-908.	6.5	20
59	Analysing the visible conformational substates of the FK506-binding protein FKBP12. <i>Biochemical Journal</i> , 2013, 453, 371-380.	3.7	19
60	Dual conformations of a T cell receptor V α homodimer: implications for variability in V α V β domain association 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 1997, 269, 385-394.	4.2	18
61	Coupling of Conformational Transitions in the N-terminal Domain of the 51-kDa FK506-binding Protein (FKBP51) Near Its Site of Interaction with the Steroid Receptor Proteins. <i>Journal of Biological Chemistry</i> , 2015, 290, 15746-15757.	3.4	18
62	S-Adenosyl-Homocysteine Is a Weakly Bound Inhibitor for a Flaviviral Methyltransferase. <i>PLoS ONE</i> , 2013, 8, e76900.	2.5	18
63	Involvement of zinc in the binding of Mycoplasma arthritis-derived mitogen to the proximity of the HLA-DR binding groove regardless of histidine 81 of the β chain. <i>European Journal of Immunology</i> , 2002, 32, 50-58.	2.9	17
64	Zinc Induces Dimerization of the Class II Major Histocompatibility Complex Molecule That Leads to Cooperative Binding to a Superantigen. <i>Journal of Biological Chemistry</i> , 2007, 282, 5991-6000.	3.4	17
65	Crystal structure of pokeweed antiviral protein with well-defined sugars from seeds at 1.8Å... resolution. <i>Journal of Structural Biology</i> , 2003, 141, 171-178.	2.8	16
66	Conditional DnaB Protein Splicing Is Reversibly Inhibited by Zinc in Mycobacteria. <i>MBio</i> , 2020, 11, .	4.1	16
67	Antiviral Agents against Flavivirus Protease: Prospect and Future Direction. <i>Pathogens</i> , 2022, 11, 293.	2.8	16
68	Structural basis of conformational transitions in the active site and 80Å loop in the FK506-binding protein FKBP12. <i>Biochemical Journal</i> , 2014, 458, 525-536.	3.7	15
69	Zinc Inhibits Hedgehog Autoprocessing. <i>Journal of Biological Chemistry</i> , 2015, 290, 11591-11600.	3.4	15
70	Small-molecule inhibitors for the Prp8 intein as antifungal agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
71	Refolding of a fully functional flavivirus methyltransferase revealed that S-adenosyl methionine but not S-adenosyl homocysteine is copurified with flavivirus methyltransferase. <i>Protein Science</i> , 2015, 24, 117-128.	7.6	14
72	Flavivirus NS2B/NS3 Protease: Structure, Function, and Inhibition. , 2017, , 163-188.		13

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73	Crystal structures of T cell receptor β chains related to rheumatoid arthritis. <i>Protein Science</i> , 2005, 14, 3025-3038.	7.6	10
74	Analysis of Protein-Protein Interactions by Split Luciferase Complementation Assay. <i>Current Protocols in Toxicology</i> / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2019, 82, e90.	1.1	10
75	In vitro and in vivo characterization of erythrosin B and derivatives against Zika virus. <i>Acta Pharmaceutica Sinica B</i> , 2021, , .	12.0	10
76	Inteins as Drug Targets and Therapeutic Tools. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 821146.	3.5	10
77	A series of bioactivity-variant neurotoxins from scorpion <i>Buthus martensii</i> Karsch: purification, crystallization and crystallographic analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 341-344.	2.5	9
78	The nucleocapsid protein of zoonotic betacoronaviruses is an attractive target for antiviral drug discovery. <i>Life Sciences</i> , 2021, 282, 118754.	4.3	8
79	Inexpensive electronics and software for photon statistics and correlation spectroscopy. <i>American Journal of Physics</i> , 2014, 82, 712-722.	0.7	7
80	Mutagenesis, biochemical, and biophysical characterization of <i>Mycoplasma arthritidis</i> -derived mitogen. <i>Molecular Immunology</i> , 2007, 44, 763-773.	2.2	6
81	General Base Swap Preserves Activity and Expands Substrate Tolerance in Hedgehog Autoprocessing. <i>Journal of the American Chemical Society</i> , 2019, 141, 18380-18384.	13.7	6
82	Design, synthesis and biological evaluation of 7H-pyrrolo[2,3-d]pyrimidine derivatives containing 1,8-naphthyridine-4-one fragment. <i>European Journal of Medicinal Chemistry</i> , 2021, 215, 113273.	5.5	6
83	Crystallization and preliminary crystallographic analyses of pokeweed antiviral protein from seeds. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 137-139.	2.5	5
84	Crystallization and preliminary crystallographic analysis of <i>Mycoplasma arthritidis</i> -derived mitogen complexed with peptide/MHC class II antigen. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 353-356.	2.5	5
85	Crystal structure and conformational flexibility of the unligated FK506-binding protein FKBP12.6. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 636-646.	2.5	5
86	A single point mutation changes the crystallization behavior of <i>Mycoplasma arthritidis</i> -derived mitogen. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 238-241.	0.7	4
87	Pfit Is a Structurally Novel Crohn's Disease-Associated Superantigen. <i>PLoS Pathogens</i> , 2013, 9, e1003837.	4.7	4
88	Crystal Structure of the <i>Mycoplasma arthritidis</i> -Derived Mitogen in Apo Form Reveals a 3D Domain-Swapped Dimer. <i>Journal of Molecular Biology</i> , 2010, 399, 367-376.	4.2	3
89	Crystal structure determination of a neutral neurotoxin BmK M4 from <i>Buthus martensii</i> Karsch at 0.20 nm. <i>Science in China Series C: Life Sciences</i> , 2000, 43, 39-46.	1.3	1
90	NMR and X-ray analysis of structural additivity in metal binding site-swapped hybrids of rubredoxin. <i>BMC Structural Biology</i> , 2007, 7, 81.	2.3	1

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91	Structure of an engineered intein reveals thiazoline ring and provides mechanistic insight. <i>Biotechnology and Bioengineering</i> , 2019, 116, 709-721.	3.3	1
92	Crystal structure and transient dimerization for the FKBP12 protein from the pathogenic fungus <i>Candida auris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 525, 1103-1108.	2.1	1
93	An alternative domain-swapped structure of the <i>Pyrococcus horikoshii</i> PolII mini-intein. <i>Scientific Reports</i> , 2021, 11, 11680.	3.3	1
94	Crystal structure of pokeweed antiviral protein from seeds of <i>Phytolacca americana</i> at 0.25 nm. <i>Science in China Series C: Life Sciences</i> , 1998, 41, 413-418.	1.3	0
95	Editorial of Special Column on Antiviral Drug Discovery and Pharmacology. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 1540-1541.	12.0	0