

Jianming Hu

List of Publications by Year in descending order

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85
papers

4,897
citations

76326

40
h-index

95266

68
g-index

85
all docs

85
docs citations

85
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	A global scientific strategy to cure hepatitis B. <i>The Lancet Gastroenterology and Hepatology</i> , 2019, 4, 545-558.	8.1	342
2	Hsp90 is required for the activity of a hepatitis B virus reverse transcriptase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 1060-1064.	7.1	319
3	Hepadnavirus assembly and reverse transcription require a multi-component chaperone complex which is incorporated into nucleocapsids. <i>EMBO Journal</i> , 1997, 16, 59-68.	7.8	300
4	Complete and Incomplete Hepatitis B Virus Particles: Formation, Function, and Application. <i>Viruses</i> , 2017, 9, 56.	3.3	207
5	Requirement of Heat Shock Protein 90 for Human Hepatitis B Virus Reverse Transcriptase Function. <i>Journal of Virology</i> , 2004, 78, 13122-13131.	3.4	170
6	Formation of Hepatitis B Virus Covalently Closed Circular DNA: Removal of Genome-Linked Protein. <i>Journal of Virology</i> , 2007, 81, 6164-6174.	3.4	169
7	Secretion of Genome-Free Hepatitis B Virus – Single Strand Blocking Model for Virion Morphogenesis of Para-retrovirus. <i>PLoS Pathogens</i> , 2011, 7, e1002255.	4.7	165
8	Deamination-Independent Inhibition of Hepatitis B Virus Reverse Transcription by APOBEC3G. <i>Journal of Virology</i> , 2007, 81, 4465-4472.	3.4	147
9	Reverse transcription-associated dephosphorylation of hepadnavirus nucleocapsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9020-9025.	7.1	113
10	Hepadnavirus Genome Replication and Persistence. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a021386.	6.2	108
11	In Vitro Reconstitution of Functional Hepadnavirus Reverse Transcriptase with Cellular Chaperone Proteins. <i>Journal of Virology</i> , 2002, 76, 269-279.	3.4	107
12	Revisiting Hepatitis B Virus: Challenges of Curative Therapies. <i>Journal of Virology</i> , 2019, 93, .	3.4	92
13	In Vitro Reconstitution of a Functional Duck Hepatitis B Virus Reverse Transcriptase: Posttranslational Activation by Hsp90. <i>Journal of Virology</i> , 2000, 74, 11447-11455.	3.4	91
14	Hepatitis B virus–cell interactions and pathogenesis. <i>Journal of Cellular Physiology</i> , 2008, 216, 289-294.	4.1	88
15	Hepatitis B Virus Reverse Transcriptase and $\hat{\mu}$ RNA Sequences Required for Specific Interaction In Vitro. <i>Journal of Virology</i> , 2006, 80, 2141-2150.	3.4	82
16	Regulation of Hepadnavirus Reverse Transcription by Dynamic Nucleocapsid Phosphorylation. <i>Journal of Virology</i> , 2007, 81, 1641-1649.	3.4	81
17	Hepatitis B virus reverse transcriptase: diverse functions as classical and emerging targets for antiviral intervention. <i>Emerging Microbes and Infections</i> , 2013, 2, 1-11.	6.5	79
18	Cell and Animal Models for Studying Hepatitis B Virus Infection and Drug Development. <i>Gastroenterology</i> , 2019, 156, 338-354.	1.3	76

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19	Maturation-Associated Destabilization of Hepatitis B Virus Nucleocapsid. <i>Journal of Virology</i> , 2013, 87, 11494-11503.	3.4	71
20	Cell-Free Hepatitis B Virus Capsid Assembly Dependent on the Core Protein C-Terminal Domain and Regulated by Phosphorylation. <i>Journal of Virology</i> , 2016, 90, 5830-5844.	3.4	71
21	Hepatitis B virus reverse transcriptase – Target of current antiviral therapy and future drug development. <i>Antiviral Research</i> , 2015, 123, 132-137.	4.1	70
22	A research agenda for curing chronic hepatitis B virus infection. <i>Hepatology</i> , 2018, 67, 1127-1131.	7.3	70
23	Does Tyrosyl DNA Phosphodiesterase-2 Play a Role in Hepatitis B Virus Genome Repair?. <i>PLoS ONE</i> , 2015, 10, e0128401.	2.5	69
24	Genome-free hepatitis B virion levels in patient sera as a potential marker to monitor response to antiviral therapy. <i>Journal of Viral Hepatitis</i> , 2015, 22, 561-570.	2.0	69
25	Conditional Replication of Duck Hepatitis B Virus in Hepatoma Cells. <i>Journal of Virology</i> , 2003, 77, 1885-1893.	3.4	68
26	<i>In Vitro</i> Epsilon RNA-Dependent Protein Priming Activity of Human Hepatitis B Virus Polymerase. <i>Journal of Virology</i> , 2012, 86, 5134-5150.	3.4	68
27	Common and Distinct Capsid and Surface Protein Requirements for Secretion of Complete and Genome-Free Hepatitis B Virions. <i>Journal of Virology</i> , 2018, 92, .	3.4	66
28	Reverse Transcriptase- and RNA Packaging Signal-Dependent Incorporation of APOBEC3G into Hepatitis B Virus Nucleocapsids. <i>Journal of Virology</i> , 2008, 82, 6852-6861.	3.4	63
29	Cyclin-Dependent Kinase 2 Phosphorylates S/T-P Sites in the Hepadnavirus Core Protein C-Terminal Domain and Is Incorporated into Viral Capsids. <i>Journal of Virology</i> , 2012, 86, 12237-12250.	3.4	63
30	Identification of an Intermediate in Hepatitis B Virus Covalently Closed Circular (CCC) DNA Formation and Sensitive and Selective CCC DNA Detection. <i>Journal of Virology</i> , 2017, 91, .	3.4	61
31	Hepatitis B Virus Core Protein Dephosphorylation Occurs during Pregenomic RNA Encapsidation. <i>Journal of Virology</i> , 2018, 92, .	3.4	52
32	Role of p50/CDC37 in Hepadnavirus Assembly and Replication. <i>Journal of Biological Chemistry</i> , 2002, 277, 24361-24367.	3.4	51
33	Inhibition of Hepadnavirus Reverse Transcriptase-µ RNA Interaction by Porphyrin Compounds. <i>Journal of Virology</i> , 2008, 82, 2305-2312.	3.4	50
34	Hepatitis B Virus Covalently Closed Circular DNA Formation in Immortalized Mouse Hepatocytes Associated with Nucleocapsid Destabilization. <i>Journal of Virology</i> , 2015, 89, 9021-9028.	3.4	49
35	HIV-HBV and HIV-HCV Coinfection and Liver Cancer Development. <i>Cancer Treatment and Research</i> , 2019, 177, 231-250.	0.5	49
36	Capsid Phosphorylation State and Hepadnavirus Virion Secretion. <i>Journal of Virology</i> , 2017, 91, .	3.4	48

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37	Duck Hepatitis B Virus Virion Secretion Requires a Double-Stranded DNA Genome. <i>Journal of Virology</i> , 2003, 77, 2287-2294.	3.4	47
38	Mutagenesis of a Hepatitis B Virus Reverse Transcriptase Yields Temperature-Sensitive Virus. <i>Virology</i> , 1996, 222, 430-439.	2.4	46
39	[11] Expression and characterization of hepadnavirus reverse transcriptases. <i>Methods in Enzymology</i> , 1996, 275, 195-208.	1.0	45
40	Alteration of Mature Nucleocapsid and Enhancement of Covalently Closed Circular DNA Formation by Hepatitis B Virus Core Mutants Defective in Complete-Virion Formation. <i>Journal of Virology</i> , 2015, 89, 10064-10072.	3.4	44
41	Regulation of Multiple Stages of Hepadnavirus Replication by the Carboxyl-Terminal Domain of Viral Core Protein in trans. <i>Journal of Virology</i> , 2015, 89, 2918-2930.	3.4	41
42	Role of Hepatitis B virus capsid phosphorylation in nucleocapsid disassembly and covalently closed circular DNA formation. <i>PLoS Pathogens</i> , 2020, 16, e1008459.	4.7	41
43	Noncompetitive Inhibition of Hepatitis B Virus Reverse Transcriptase Protein Priming and DNA Synthesis by the Nucleoside Analog Clevudine. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 4181-4189.	3.2	40
44	Multiple roles of core protein linker in hepatitis B virus replication. <i>PLoS Pathogens</i> , 2018, 14, e1007085.	4.7	39
45	Viral DNA-Dependent Induction of Innate Immune Response to Hepatitis B Virus in Immortalized Mouse Hepatocytes. <i>Journal of Virology</i> , 2016, 90, 486-496.	3.4	38
46	Characterization of Hepatitis B Precore/Core-Related Antigens. <i>Journal of Virology</i> , 2021, 95, .	3.4	37
47	Protein-Primed Terminal Transferase Activity of Hepatitis B Virus Polymerase. <i>Journal of Virology</i> , 2013, 87, 2563-2576.	3.4	36
48	Unveiling the roles of HBV polymerase for new antiviral strategies. <i>Future Virology</i> , 2015, 10, 283-295.	1.8	36
49	Heat Shock Protein 90-Independent Activation of Truncated Hepadnavirus Reverse Transcriptase. <i>Journal of Virology</i> , 2003, 77, 4471-4480.	3.4	35
50	Comparative Analysis of Hepatitis B Virus Polymerase Sequences Required for Viral RNA Binding, RNA Packaging, and Protein Priming. <i>Journal of Virology</i> , 2014, 88, 1564-1572.	3.4	35
51	PAG-YOLO: A Portable Attention-Guided YOLO Network for Small Ship Detection. <i>Remote Sensing</i> , 2021, 13, 3059.	4.0	32
52	Involvement of Host ATR-CHK1 Pathway in Hepatitis B Virus Covalently Closed Circular DNA Formation. <i>MBio</i> , 2020, 11, .	4.1	30
53	An interdomain RNA binding site on the hepadnaviral polymerase that is essential for reverse transcription. <i>Virology</i> , 2009, 390, 130-138.	2.4	27
54	Multiple roles of PP2A binding motif in hepatitis B virus core linker and PP2A in regulating core phosphorylation state and viral replication. <i>PLoS Pathogens</i> , 2021, 17, e1009230.	4.7	27

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55	RNA-protein interactions in hepadnavirus reverse transcription. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1606.	3.0	27
56	Distinct Requirement for Two Stages of Protein-Primed Initiation of Reverse Transcription in Hepadnaviruses. <i>Journal of Virology</i> , 2002, 76, 5857-5865.	3.4	25
57	Minicircle HBV cccDNA with a Gaussia luciferase reporter for investigating HBV cccDNA biology and developing cccDNA-targeting drugs. <i>Scientific Reports</i> , 2016, 6, 36483.	3.3	24
58	Functional and Structural Dynamics of Hepadnavirus Reverse Transcriptase during Protein-Primed Initiation of Reverse Transcription: Effects of Metal Ions. <i>Journal of Virology</i> , 2008, 82, 5703-5714.	3.4	23
59	A Theoretical Model for the Dynamic Structure of Hepatitis B Nucleocapsid. <i>Biophysical Journal</i> , 2011, 101, 2476-2484.	0.5	23
60	RNA Signals That Control DNA Replication in Hepadnaviruses. <i>Seminars in Virology</i> , 1997, 8, 205-211.	3.9	22
61	Phosphorylation State-Dependent Interactions of Hepadnavirus Core Protein with Host Factors. <i>PLoS ONE</i> , 2011, 6, e29566.	2.5	22
62	HIV-1/2/3/4 and HIV-1/2/3/4/HCV Coinfection and Liver Cancer Development. <i>Cancer Treatment and Research</i> , 2007, , 241-252.	0.5	20
63	Characterization and Application of Precore/Core-Related Antigens in Animal Models of Hepatitis B Virus Infection. <i>Hepatology</i> , 2021, 74, 99-115.	7.3	19
64	Regulation of Hepatitis B Virus Replication by Cyclin Docking Motifs in Core Protein. <i>Journal of Virology</i> , 2021, 95, .	3.4	17
65	Cryptic Protein Priming Sites in Two Different Domains of Duck Hepatitis B Virus Reverse Transcriptase for Initiating DNA Synthesis <i>In Vitro</i> . <i>Journal of Virology</i> , 2011, 85, 7754-7765.	3.4	16
66	Hepatitis B Virus Virology and Replication. <i>Molecular and Translational Medicine</i> , 2016, , 1-34.	0.4	16
67	TP-RT Domain Interactions of Duck Hepatitis B Virus Reverse Transcriptase in <i>cis</i> and in <i>trans</i> during Protein-Primed Initiation of DNA Synthesis <i>In Vitro</i> . <i>Journal of Virology</i> , 2012, 86, 6522-6536.	3.4	13
68	Mapping of Functional Subdomains in the Terminal Protein Domain of Hepatitis B Virus Polymerase. <i>Journal of Virology</i> , 2017, 91, .	3.4	13
69	Salient Ship Detection via Background Prior and Foreground Constraint in Remote Sensing Images. <i>Remote Sensing</i> , 2020, 12, 3370.	4.0	12
70	Therapy for chronic hepatitis B: the earlier, the better?. <i>Trends in Microbiology</i> , 2004, 12, 431-433.	7.7	9
71	Secretion of empty or complete hepatitis B virions: envelopment of empty capsids versus mature nucleocapsids. <i>Future Virology</i> , 2019, 14, 95-105.	1.8	9
72	Regulation of Hepatitis B Virus Virion Release and Envelopment Timing by Nucleocapsid and Envelope Interactions. <i>Journal of Virology</i> , 2022, 96, JVI0130521.	3.4	9

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73	Host cell-dependent late entry step as determinant of hepatitis B virus infection. PLoS Pathogens, 2022, 18, e1010633.	4.7	8
74	Global Information Transmission Model-Based Multiobjective Image Inversion Restoration Method for Space Diffractive Membrane Imaging Systems. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	7
75	In Vitro Assays for RNA Binding and Protein Priming of Hepatitis B Virus Polymerase. Methods in Molecular Biology, 2017, 1540, 157-177.	0.9	6
76	Influence of Space Variability on Remote Sensing Image Restoration Performances. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
77	Studying DHBV Polymerase by In Vitro Transcription and Translation. , 2004, 95, 259-270.		5
78	The hepatitis B virus polymerase. The Enzymes, 2021, 50, 195-226.	1.7	5
79	Understanding HBcrAg components improves the interpretation of clinical HBcrAg assay results. Journal of Hepatology, 2021, 75, 997-998.	3.7	4
80	Host-regulated Hepatitis B Virus Capsid Assembly in a Mammalian Cell-free System. Bio-protocol, 2018, 8, .	0.4	4
81	Region-Specific Hepatitis B Virus Genome Exposure from Nucleocapsid Modulated by Capsid Linker Sequence and Inhibitor: Implications for Uncoating. Journal of Virology, 2022, 96, e0039922.	3.4	4
82	Serum HBV RNA composition dynamics as a marker for intrahepatic HBV cccDNA turnover. Journal of Medical Virology, 2020, 92, 935-937.	5.0	3
83	Conserved Lysine Residues of Hepatitis B Virus Core Protein Are Not Required for Covalently Closed Circular DNA Formation. Journal of Virology, 0, .	3.4	3
84	Ship Detection via Dilated Rate Search and Attention-Guided Feature Representation. Remote Sensing, 2021, 13, 4840.	4.0	2
85	trans-Complementation of HBV rtM204I mutant replication by HBV wild-type polymerase. Virology, 2009, 388, 57-67.	2.4	1