

# 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  | Global Information Transmission Model-Based Multiobjective Image Inversion Restoration Method for Space Diffractive Membrane Imaging Systems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12. | 6.3 | 7         |
| 2  | 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         |
| 3  | Region-Specific Hepatitis B Virus Genome Exposure from Nucleocapsid Modulated by Capsid Linker Sequence and Inhibitor: Implications for Uncoating. <i>Journal of Virology</i> , 2022, 96, e0039922.                       | 3.4 | 4         |
| 4  | Influence of Space Variability on Remote Sensing Image Restoration Performances. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.   | 3.1 | 6         |
| 5  | Host cell-dependent late entry step as determinant of hepatitis B virus infection. <i>PLoS Pathogens</i> , 2022, 18, e1010633.  | 4.7 | 8         |
| 6  | Characterization of Hepatitis B Precore/Core-Related Antigens. <i>Journal of Virology</i> , 2021, 95, .   | 3.4 | 37        |
| 7  | 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        |
| 8  | Regulation of Hepatitis B Virus Replication by Cyclin Docking Motifs in Core Protein. <i>Journal of Virology</i> , 2021, 95, .  | 3.4 | 17        |
| 9  | 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        |
| 10 | PAG-YOLO: A Portable Attention-Guided YOLO Network for Small Ship Detection. <i>Remote Sensing</i> , 2021, 13, 3059.  | 4.0 | 32        |
| 11 | Understanding HBcrAg components improves the interpretation of clinical HBcrAg assay results. <i>Journal of Hepatology</i> , 2021, 75, 997-998.   | 3.7 | 4         |
| 12 | Ship Detection via Dilated Rate Search and Attention-Guided Feature Representation. <i>Remote Sensing</i> , 2021, 13, 4840.   | 4.0 | 2         |
| 13 | The hepatitis B virus polymerase. <i>The Enzymes</i> , 2021, 50, 195-226.   | 1.7 | 5         |
| 14 | Salient Ship Detection via Background Prior and Foreground Constraint in Remote Sensing Images. <i>Remote Sensing</i> , 2020, 12, 3370.   | 4.0 | 12        |
| 15 | Serum HBV RNA composition dynamics as a marker for intrahepatic HBV cccDNA turnover. <i>Journal of Medical Virology</i> , 2020, 92, 935-937.  | 5.0 | 3         |
| 16 | Involvement of Host ATR-CHK1 Pathway in Hepatitis B Virus Covalently Closed Circular DNA Formation. <i>MBio</i> , 2020, 11, .   | 4.1 | 30        |
| 17 | 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        |
| 18 | Revisiting Hepatitis B Virus: Challenges of Curative Therapies. <i>Journal of Virology</i> , 2019, 93, .  | 3.4 | 92        |

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|----|---|-----|-----------|
| 19 | 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         |
| 20 | A global scientific strategy to cure hepatitis B. <i>The Lancet Gastroenterology and Hepatology</i> , 2019, 4, 545-558.   | 8.1 | 342       |
| 21 | Cell and Animal Models for Studying Hepatitis B Virus Infection and Drug Development. <i>Gastroenterology</i> , 2019, 156, 338-354.   | 1.3 | 76        |
| 22 | HIV and HBV and HIV and HCV Coinfection and Liver Cancer Development. <i>Cancer Treatment and Research</i> , 2019, 177, 231-250.  | 0.5 | 49        |
| 23 | Hepatitis B Virus Core Protein Dephosphorylation Occurs during Pregenomic RNA Encapsidation. <i>Journal of Virology</i> , 2018, 92, .   | 3.4 | 52        |
| 24 | A research agenda for curing chronic hepatitis B virus infection. <i>Hepatology</i> , 2018, 67, 1127-1131.  | 7.3 | 70        |
| 25 | 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        |
| 26 | Multiple roles of core protein linker in hepatitis B virus replication. <i>PLoS Pathogens</i> , 2018, 14, e1007085.   | 4.7 | 39        |
| 27 | Host-regulated Hepatitis B Virus Capsid Assembly in a Mammalian Cell-free System. <i>Bio-protocol</i> , 2018, 8, .  | 0.4 | 4         |
| 28 | Capsid Phosphorylation State and Hepadnavirus Virion Secretion. <i>Journal of Virology</i> , 2017, 91, .  | 3.4 | 48        |
| 29 | In Vitro Assays for RNA Binding and Protein Priming of Hepatitis B Virus Polymerase. <i>Methods in Molecular Biology</i> , 2017, 1540, 157-177.   | 0.9 | 6         |
| 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 | Mapping of Functional Subdomains in the Terminal Protein Domain of Hepatitis B Virus Polymerase. <i>Journal of Virology</i> , 2017, 91, .   | 3.4 | 13        |
| 32 | Complete and Incomplete Hepatitis B Virus Particles: Formation, Function, and Application. <i>Viruses</i> , 2017, 9, 56.  | 3.3 | 207       |
| 33 | 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        |
| 34 | 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        |
| 35 | Hepatitis B Virus Virology and Replication. <i>Molecular and Translational Medicine</i> , 2016, , 1-34.   | 0.4 | 16        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | Does Tyrosyl DNA Phosphodiesterase-2 Play a Role in Hepatitis B Virus Genome Repair?. PLoS ONE, 2015, 10, e0128401.   | 2.5 | 69        |
| 38 | Regulation of Multiple Stages of Hepadnavirus Replication by the Carboxyl-Terminal Domain of Viral Core Protein in trans. Journal of Virology, 2015, 89, 2918-2930.   | 3.4 | 41        |
| 39 | Hepatitis B Virus Covalently Closed Circular DNA Formation in Immortalized Mouse Hepatocytes Associated with Nucleocapsid Destabilization. Journal of Virology, 2015, 89, 9021-9028.                                      | 3.4 | 49        |
| 40 | Alteration of Mature Nucleocapsid and Enhancement of Covalently Closed Circular DNA Formation by Hepatitis B Virus Core Mutants Defective in Complete-Virion Formation. Journal of Virology, 2015, 89, 10064-10072.       | 3.4 | 44        |
| 41 | Hepadnavirus Genome Replication and Persistence. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a021386.   | 6.2 | 108       |
| 42 | Unveiling the roles of HBV polymerase for new antiviral strategies. Future Virology, 2015, 10, 283-295.   | 1.8 | 36        |
| 43 | Hepatitis B virus reverse transcriptase – Target of current antiviral therapy and future drug development. Antiviral Research, 2015, 123, 132-137.  | 4.1 | 70        |
| 44 | Genome-free hepatitis B virion levels in patient sera as a potential marker to monitor response to antiviral therapy. Journal of Viral Hepatitis, 2015, 22, 561-570.  | 2.0 | 69        |
| 45 | Comparative Analysis of Hepatitis B Virus Polymerase Sequences Required for Viral RNA Binding, RNA Packaging, and Protein Priming. Journal of Virology, 2014, 88, 1564-1572.  | 3.4 | 35        |
| 46 | Noncompetitive Inhibition of Hepatitis B Virus Reverse Transcriptase Protein Priming and DNA Synthesis by the Nucleoside Analog Clevudine. Antimicrobial Agents and Chemotherapy, 2013, 57, 4181-4189.                    | 3.2 | 40        |
| 47 | Protein-Primed Terminal Transferase Activity of Hepatitis B Virus Polymerase. Journal of Virology, 2013, 87, 2563-2576.   | 3.4 | 36        |
| 48 | Maturation-Associated Destabilization of Hepatitis B Virus Nucleocapsid. Journal of Virology, 2013, 87, 11494-11503.  | 3.4 | 71        |
| 49 | Hepatitis B virus reverse transcriptase: diverse functions as classical and emerging targets for antiviral intervention. Emerging Microbes and Infections, 2013, 2, 1-11.   | 6.5 | 79        |
| 50 | Cyclin-Dependent Kinase 2 Phosphorylates S/T-P Sites in the Hepadnavirus Core Protein C-Terminal Domain and Is Incorporated into Viral Capsids. Journal of Virology, 2012, 86, 12237-12250.                               | 3.4 | 63        |
| 51 | <i>In Vitro</i> Epsilon RNA-Dependent Protein Priming Activity of Human Hepatitis B Virus Polymerase. Journal of Virology, 2012, 86, 5134-5150.   | 3.4 | 68        |
| 52 | 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> . Journal of Virology, 2012, 86, 6522-6536. | 3.4 | 13        |
| 53 | A Theoretical Model for the Dynamic Structure of Hepatitis B Nucleocapsid. Biophysical Journal, 2011, 101, 2476-2484.   | 0.5 | 23        |
| 54 | Phosphorylation State-Dependent Interactions of Hepadnavirus Core Protein with Host Factors. PLoS ONE, 2011, 6, e29566.   | 2.5 | 22        |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | 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       |
| 57 | trans-Complementation of HBV rtM204I mutant replication by HBV wild-type polymerase. <i>Virology</i> , 2009, 388, 57-67.   | 2.4 | 1         |
| 58 | 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        |
| 59 | RNA-protein interactions in hepadnavirus reverse transcription. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1606.  | 3.0 | 27        |
| 60 | Hepatitis B virus–cell interactions and pathogenesis. <i>Journal of Cellular Physiology</i> , 2008, 216, 289-294.  | 4.1 | 88        |
| 61 | Inhibition of Hepadnavirus Reverse Transcriptase–RNA Interaction by Porphyrin Compounds. <i>Journal of Virology</i> , 2008, 82, 2305-2312.   | 3.4 | 50        |
| 62 | 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        |
| 63 | 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        |
| 64 | Regulation of Hepadnavirus Reverse Transcription by Dynamic Nucleocapsid Phosphorylation. <i>Journal of Virology</i> , 2007, 81, 1641-1649.  | 3.4 | 81        |
| 65 | Deamination-Independent Inhibition of Hepatitis B Virus Reverse Transcription by APOBEC3G. <i>Journal of Virology</i> , 2007, 81, 4465-4472.   | 3.4 | 147       |
| 66 | 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       |
| 67 | HIV–HBV and HIV–HCV Coinfection and Liver Cancer Development. <i>Cancer Treatment and Research</i> , 2007, , 241-252.  | 0.5 | 20        |
| 68 | Hepatitis B Virus Reverse Transcriptase and RNA Sequences Required for Specific Interaction <i>In Vitro</i> . <i>Journal of Virology</i> , 2006, 80, 2141-2150.  | 3.4 | 82        |
| 69 | 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       |
| 70 | Studying DHBV Polymerase by <i>In Vitro</i> Transcription and Translation. , 2004, 95, 259-270.  |     | 5         |
| 71 | 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       |
| 72 | Therapy for chronic hepatitis B: the earlier, the better?. <i>Trends in Microbiology</i> , 2004, 12, 431-433.  | 7.7 | 9         |

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|----|---|-----|-----------|
| 73 | Heat Shock Protein 90-Independent Activation of Truncated Hepadnavirus Reverse Transcriptase. <i>Journal of Virology</i> , 2003, 77, 4471-4480.   | 3.4 | 35        |
| 74 | Conditional Replication of Duck Hepatitis B Virus in Hepatoma Cells. <i>Journal of Virology</i> , 2003, 77, 1885-1893.  | 3.4 | 68        |
| 75 | Duck Hepatitis B Virus Virion Secretion Requires a Double-Stranded DNA Genome. <i>Journal of Virology</i> , 2003, 77, 2287-2294.  | 3.4 | 47        |
| 76 | In Vitro Reconstitution of Functional Hepadnavirus Reverse Transcriptase with Cellular Chaperone Proteins. <i>Journal of Virology</i> , 2002, 76, 269-279.                                      | 3.4 | 107       |
| 77 | Role of p50/CDC37 in Hepadnavirus Assembly and Replication. <i>Journal of Biological Chemistry</i> , 2002, 277, 24361-24367.  | 3.4 | 51        |
| 78 | 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        |
| 79 | 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        |
| 80 | RNA Signals That Control DNA Replication in Hepadnaviruses. <i>Seminars in Virology</i> , 1997, 8, 205-211.   | 3.9 | 22        |
| 81 | 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       |
| 82 | 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       |
| 83 | Mutagenesis of a Hepatitis B Virus Reverse Transcriptase Yields Temperature-Sensitive Virus. <i>Virology</i> , 1996, 222, 430-439.  | 2.4 | 46        |
| 84 | [11] Expression and characterization of hepadnavirus reverse transcriptases. <i>Methods in Enzymology</i> , 1996, 275, 195-208.   | 1.0 | 45        |
| 85 | Conserved Lysine Residues of Hepatitis B Virus Core Protein Are Not Required for Covalently Closed Circular DNA Formation. <i>Journal of Virology</i> , 0, , .                                  | 3.4 | 3         |