

# Huachen Zhu

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

10,373  
citations

87843

38  
h-index

62565

80  
g-index

92  
all docs

92  
docs citations

92  
times ranked

16233  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | <code>ggtree</code> : an R package for visualization and annotation of phylogenetic trees with their covariates and other associated data. <i>Methods in Ecology and Evolution</i> , 2017, 8, 28-36.                                     | 2.2  | 2,998     |
| 2  | Identifying SARS-CoV-2-related coronaviruses in Malayan pangolins. <i>Nature</i> , 2020, 583, 282-285.   | 13.7 | 1,453     |
| 3  | Two Methods for Mapping and Visualizing Associated Data on Phylogeny Using <code>Ggtree</code> . <i>Molecular Biology and Evolution</i> , 2018, 35, 3041-3043.   | 3.5  | 535       |
| 4  | The genesis and source of the H7N9 influenza viruses causing human infections in China. <i>Nature</i> , 2013, 502, 241-244.  | 13.7 | 429       |
| 5  | Co-circulation of three camel coronavirus species and recombination of MERS-CoVs in Saudi Arabia. <i>Science</i> , 2016, 351, 81-84.   | 6.0  | 365       |
| 6  | Treeio: An R Package for Phylogenetic Tree Input and Output with Richly Annotated and Associated Data. <i>Molecular Biology and Evolution</i> , 2020, 37, 599-603.   | 3.5  | 348       |
| 7  | Reassortment of Pandemic H1N1/2009 Influenza A Virus in Swine. <i>Science</i> , 2010, 328, 1529-1529.  | 6.0  | 339       |
| 8  | Nomenclature updates resulting from the evolution of avian influenza A(H5) virus clades 2.1.3.2a, 2.2.1, and 2.3.4 during 2013–2014. <i>Influenza and Other Respiratory Viruses</i> , 2015, 9, 271-276.                                  | 1.5  | 283       |
| 9  | Infectivity, Transmission, and Pathology of Human-Isolated H7N9 Influenza Virus in Ferrets and Pigs. <i>Science</i> , 2013, 341, 183-186.  | 6.0  | 273       |
| 10 | Epidemiology of avian influenza A H7N9 virus in human beings across five epidemics in mainland China, 2013–17: an epidemiological study of laboratory-confirmed case series. <i>Lancet Infectious Diseases</i> , The, 2017, 17, 822-832. | 4.6  | 251       |
| 11 | Long-term evolution and transmission dynamics of swine influenza A virus. <i>Nature</i> , 2011, 473, 519-522.  | 13.7 | 219       |
| 12 | Dissemination, divergence and establishment of H7N9 influenza viruses in China. <i>Nature</i> , 2015, 522, 102-105.  | 13.7 | 201       |
| 13 | Evidence for Antigenic Seniority in Influenza A (H3N2) Antibody Responses in Southern China. <i>PLoS Pathogens</i> , 2012, 8, e1002802.  | 2.1  | 184       |
| 14 | Amino Acid Substitutions in Polymerase Basic Protein 2 Gene Contribute to the Pathogenicity of the Novel A/H7N9 Influenza Virus in Mammalian Hosts. <i>Journal of Virology</i> , 2014, 88, 3568-3576.                                    | 1.5  | 146       |
| 15 | The emergence of pandemic influenza viruses. <i>Protein and Cell</i> , 2010, 1, 9-13.  | 4.8  | 140       |
| 16 | Estimating the Life Course of Influenza A(H3N2) Antibody Responses from Cross-Sectional Data. <i>PLoS Biology</i> , 2015, 13, e1002082.  | 2.6  | 129       |
| 17 | Detection of diverse astroviruses from bats in China. <i>Journal of General Virology</i> , 2009, 90, 883-887.  | 1.3  | 91        |
| 18 | Resistance to Neuraminidase Inhibitors Conferred by an R292K Mutation in a Human Influenza Virus H7N9 Isolate Can Be Masked by a Mixed R/K Viral Population. <i>MBio</i> , 2013, 4, .  | 1.8  | 90        |

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|----|--|-----|-----------|
| 19 | Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. <i>Nature Communications</i> , 2015, 6, 6553.   | 5.8 | 90        |
| 20 | Novel Reassortment of Eurasian Avian-Like and Pandemic/2009 Influenza Viruses in Swine: Infectious Potential for Humans. <i>Journal of Virology</i> , 2011, 85, 10432-10439.                   | 1.5 | 80        |
| 21 | Expansion of Genotypic Diversity and Establishment of 2009 H1N1 Pandemic-Origin Internal Genes in Pigs in China. <i>Journal of Virology</i> , 2014, 88, 10864-10874.                           | 1.5 | 79        |
| 22 | Establishment and Lineage Replacement of H6 Influenza Viruses in Domestic Ducks in Southern China. <i>Journal of Virology</i> , 2012, 86, 6075-6083.   | 1.5 | 77        |
| 23 | Pathogenicity of the Novel A/H7N9 Influenza Virus in Mice. <i>MBio</i> , 2013, 4, .  | 1.8 | 68        |
| 24 | Detection and Phylogenetic Analysis of Group 1 Coronaviruses in South American Bats. <i>Emerging Infectious Diseases</i> , 2008, 14, 1890-1893.  | 2.0 | 66        |
| 25 | Emergence and Evolution of Avian H5N2 Influenza Viruses in Chickens in Taiwan. <i>Journal of Virology</i> , 2014, 88, 5677-5686.   | 1.5 | 66        |
| 26 | Dual E627K and D701N mutations in the PB2 protein of A(H7N9) influenza virus increased its virulence in mammalian models. <i>Scientific Reports</i> , 2015, 5, 14170.                          | 1.6 | 66        |
| 27 | Emergence and Evolution of H10 Subtype Influenza Viruses in Poultry in China. <i>Journal of Virology</i> , 2015, 89, 3534-3541.  | 1.5 | 61        |
| 28 | Reassortment Events among Swine Influenza A Viruses in China: Implications for the Origin of the 2009 Influenza Pandemic. <i>Journal of Virology</i> , 2011, 85, 10279-10285.                  | 1.5 | 57        |
| 29 | A comparison of hemagglutination inhibition and neutralization assays for characterizing immunity to seasonal influenza A. <i>Influenza and Other Respiratory Viruses</i> , 2016, 10, 518-524. | 1.5 | 57        |
| 30 | Gender associates with both susceptibility to infection and pathogenesis of SARS-CoV-2 in Syrian hamster. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 136.                      | 7.1 | 57        |
| 31 | Ferrets as Models for Influenza Virus Transmission Studies and Pandemic Risk Assessments. <i>Emerging Infectious Diseases</i> , 2018, 24, 965-971.   | 2.0 | 56        |
| 32 | A recombinant spike protein subunit vaccine confers protective immunity against SARS-CoV-2 infection and transmission in hamsters. <i>Science Translational Medicine</i> , 2021, 13, .         | 5.8 | 56        |
| 33 | Substitution of lysine at 627 position in PB2 protein does not change virulence of the 2009 pandemic H1N1 virus in mice. <i>Virology</i> , 2010, 401, 1-5.                                     | 1.1 | 55        |
| 34 | Molecular epidemiology of human enterovirus 71 at the origin of an epidemic of fatal hand, foot and mouth disease cases in Cambodia. <i>Emerging Microbes and Infections</i> , 2016, 5, 1-9.   | 3.0 | 54        |
| 35 | Emergence and Dissemination of a Swine H3N2 Reassortant Influenza Virus with 2009 Pandemic H1N1 Genes in Pigs in China. <i>Journal of Virology</i> , 2012, 86, 2375-2378.                      | 1.5 | 52        |
| 36 | Emergence and development of H7N9 influenza viruses in China. <i>Current Opinion in Virology</i> , 2016, 16, 106-113.  | 2.6 | 50        |

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|----|---|-----|-----------|
| 37 | History of Swine Influenza Viruses in Asia. <i>Current Topics in Microbiology and Immunology</i> , 2011, 370, 57-68.  | 0.7 | 47        |
| 38 | H7N9 Incident, immune status, the elderly and a warning of an influenza pandemic. <i>Journal of Infection in Developing Countries</i> , 2013, 7, 302-307.   | 0.5 | 43        |
| 39 | Multiannual patterns of influenza A transmission in Chinese live bird market systems. <i>Influenza and Other Respiratory Viruses</i> , 2013, 7, 97-107.   | 1.5 | 41        |
| 40 | A Combination of HA and PA Mutations Enhances Virulence in a Mouse-Adapted H6N6 Influenza A Virus. <i>Journal of Virology</i> , 2014, 88, 14116-14125.  | 1.5 | 39        |
| 41 | Genomic Analysis of the Emergence, Evolution, and Spread of Human Respiratory RNA Viruses. <i>Annual Review of Genomics and Human Genetics</i> , 2016, 17, 193-218.   | 2.5 | 38        |
| 42 | Location-specific patterns of exposure to recent pre-pandemic strains of influenza A in southern China. <i>Nature Communications</i> , 2011, 2, 423.  | 5.8 | 36        |
| 43 | Possible Role of Songbirds and Parakeets in Transmission of Influenza A(H7N9) Virus to Humans. <i>Emerging Infectious Diseases</i> , 2014, 20, 380-5.   | 2.0 | 32        |
| 44 | Infectivity and Transmissibility of Avian H9N2 Influenza Viruses in Pigs. <i>Journal of Virology</i> , 2016, 90, 3506-3514.   | 1.5 | 29        |
| 45 | Tropism and innate host responses of influenza A/H5N6 virus: an analysis of <i>ex vivo</i> and <i>in vitro</i> cultures of the human respiratory tract. <i>European Respiratory Journal</i> , 2017, 49, 1601710.    | 3.1 | 27        |
| 46 | The recombinant origin of emerging human norovirus GII.4/2008: intra-genotypic exchange of the capsid P2 domain. <i>Journal of General Virology</i> , 2012, 93, 817-822.  | 1.3 | 24        |
| 47 | Insect resistance to <i>Nilaparvata lugens</i> and <i>Cnaphalocrocis medinalis</i> in transgenic indica rice and the inheritance of <i>gna+sbti</i> transgenes. <i>Pest Management Science</i> , 2005, 61, 390-396. | 1.7 | 23        |
| 48 | Quantifying within-host diversity of H5N1 influenza viruses in humans and poultry in Cambodia. <i>PLoS Pathogens</i> , 2020, 16, e1008191.  | 2.1 | 22        |
| 49 | Enhancing disease resistances of Super Hybrid Rice with four antifungal genes. <i>Science in China Series C: Life Sciences</i> , 2007, 50, 31-39.   | 1.3 | 20        |
| 50 | Global and quantitative proteomic analysis of dogs infected by avian-like H3N2 canine influenza virus. <i>Frontiers in Microbiology</i> , 2015, 6, 228.   | 1.5 | 20        |
| 51 | Dexamethasone ameliorates severe pneumonia but slightly enhances viral replication in the lungs of SARS-CoV-2-infected Syrian hamsters. <i>Cellular and Molecular Immunology</i> , 2022, 19, 290-292.               | 4.8 | 17        |
| 52 | Minimizing the threat of pandemic emergence from avian influenza in poultry systems. <i>BMC Infectious Diseases</i> , 2013, 13, 592.  | 1.3 | 16        |
| 53 | Molecular Detection of Human H7N9 Influenza A Virus Causing Outbreaks in China. <i>Clinical Chemistry</i> , 2013, 59, 1062-1067.  | 1.5 | 15        |
| 54 | Genetic characterization of highly pathogenic H5 influenza viruses from poultry in Taiwan, 2015. <i>Infection, Genetics and Evolution</i> , 2016, 38, 96-100.   | 1.0 | 15        |

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|----|---|-----|-----------|
| 55 | Dysregulated T-Helper Type 1 (Th1):Th2 Cytokine Profile and Poor Immune Response in Pregnant Ferrets Infected With 2009 Pandemic Influenza A(H1N1) Virus. <i>Journal of Infectious Diseases</i> , 2018, 217, 438-442.                 | 1.9 | 15        |
| 56 | Inhibition of autophagy enhances adenosine-induced apoptosis in human hepatoblastoma HepG2 cells. <i>Oncology Reports</i> , 2019, 41, 829-838.  | 1.2 | 15        |
| 57 | Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. <i>PLoS Pathogens</i> , 2020, 16, e1008635.  | 2.1 | 15        |
| 58 | Cross-species tropism and antigenic landscapes of circulating SARS-CoV-2 variants. <i>Cell Reports</i> , 2022, 38, 110558.  | 2.9 | 15        |
| 59 | Seroconversion to Pandemic (H1N1) 2009 Virus and Cross-Reactive Immunity to Other Swine Influenza Viruses. <i>Emerging Infectious Diseases</i> , 2011, 17, 1897-1899.   | 2.0 | 14        |
| 60 | Puzzling Origins of the Ebola Outbreak in the Democratic Republic of the Congo, 2014. <i>Journal of Virology</i> , 2015, 89, 10130-10132.   | 1.5 | 14        |
| 61 | The PB2 mutation with lysine at 627 enhances the pathogenicity of avian influenza (H7N9) virus which belongs to a non-zoonotic lineage. <i>Scientific Reports</i> , 2017, 7, 2352.  | 1.6 | 13        |
| 62 | Influenza virus surveillance in migratory ducks and sentinel ducks at Poyang Lake, China. <i>Influenza and Other Respiratory Viruses</i> , 2011, 5, 65-8.   | 1.5 | 12        |
| 63 | Female sex hormone, progesterone, ameliorates the severity of SARS-CoV-2-caused pneumonia in the Syrian hamster model. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 47.   | 7.1 | 12        |
| 64 | Cohort Profile: A study of influenza immunity in the urban and rural Guangzhou region of China: the Fluscape Study. <i>International Journal of Epidemiology</i> , 2017, 46, dyv353.  | 0.9 | 11        |
| 65 | The persistence of multiple strains of avian influenza in live bird markets. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170715.  | 1.2 | 11        |
| 66 | A field-deployable insulated isothermal RT-PCR assay for identification of influenza A (H7N9) shows good performance in the laboratory. <i>Influenza and Other Respiratory Viruses</i> , 2019, 13, 610-617.                           | 1.5 | 10        |
| 67 | SARS-CoV-2 infection and disease outcomes in non-human primate models: advances and implications. <i>Emerging Microbes and Infections</i> , 2021, 10, 1881-1889.  | 3.0 | 10        |
| 68 | Anticipating the Prevalence of Avian Influenza Subtypes H9 and H5 in Live-Bird Markets. <i>PLoS ONE</i> , 2013, 8, e56157.  | 1.1 | 10        |
| 69 | Oncolytic Activity of Wild-type Newcastle Disease Virus HK84 Against Hepatocellular Carcinoma Associated with Activation of Type I Interferon Signaling. <i>Journal of Clinical and Translational Hepatology</i> , 2022, 10, 284-296. | 0.7 | 10        |
| 70 | Specificity, kinetics and longevity of antibody responses to avian influenza A(H7N9) virus infection in humans. <i>Journal of Infection</i> , 2020, 80, 310-319.  | 1.7 | 9         |
| 71 | Genetic diversity of the 2013-14 human isolates of influenza H7N9 in China. <i>BMC Infectious Diseases</i> , 2015, 15, 109.   | 1.3 | 8         |
| 72 | Using serological measures to estimate influenza incidence in the presence of secular trends in exposure and immunomodulation of antibody response. <i>Influenza and Other Respiratory Viruses</i> , 2021, 15, 235-244.               | 1.5 | 8         |

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|----|---|-----|-----------|
| 73 | A SCID mouse-human lung xenograft model of SARS-CoV-2 infection. <i>Theranostics</i> , 2021, 11, 6607-6615.   | 4.6 | 8         |
| 74 | Cohort profile: the China Ageing REspiratory infections Study (CARES), a prospective cohort study in older adults in Eastern China. <i>BMJ Open</i> , 2017, 7, e017503.   | 0.8 | 7         |
| 75 | Safety and immunogenicity of an 8 year interval heterologous prime-boost influenza A/H7N7-H7N9 vaccination. <i>Vaccine</i> , 2019, 37, 2561-2568.   | 1.7 | 6         |
| 76 | Persisting lung pathogenesis and minimum residual virus in hamster after acute COVID-19. <i>Protein and Cell</i> , 2022, 13, 72-77.   | 4.8 | 6         |
| 77 | Pathogenicity and transmissibility of the pandemic H1N1 2009-related influenza viruses in mice, ferrets, and pigs. <i>Influenza and Other Respiratory Viruses</i> , 2011, 5, 82-4.  | 1.5 | 3         |
| 78 | Use of fractional factorial design to study the compatibility of viral ribonucleoprotein gene segments of human H7N9 virus and circulating human influenza subtypes. <i>Influenza and Other Respiratory Viruses</i> , 2014, 8, 580-584. | 1.5 | 2         |
| 79 | A7â€fEvolution of influenza A(H7N9) viruses from waves I to IV. <i>Virus Evolution</i> , 2017, 3, .   | 2.2 | 1         |
| 80 | A24â€fApplication of large-scale sequencing and data analysis to research on emerging infectious diseases. <i>Virus Evolution</i> , 2017, 3, .  | 2.2 | 0         |
| 81 | A38â€fPrevalence and evolution of avian H1 subtype influenza A viruses in Southern China. <i>Virus Evolution</i> , 2018, 4, .   | 2.2 | 0         |
| 82 | Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.  |     | 0         |
| 83 | Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.  |     | 0         |
| 84 | Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.  |     | 0         |
| 85 | Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.  |     | 0         |