# Joy Y Feng

List of Publications by Year
in descending order

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|---|---|---|---|
| 56 papers | 10,474 citations | 126907 33 h-index | 161849 54 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 12335 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparative therapeutic efficacy of remdesivir and combination lopinavir, ritonavir, and interferon beta against MERS-CoV. Nature Communications, 2020, 11, 222. | 12.8 | 1,376 |
| 2 | Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. Science Translational Medicine, 2017, 9, . | 12.4 | 1,279 |
| 3 | Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys. Nature, 2016, 531, 381-385. | 27.8 | 1,245 |
| 4 | Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. MBio, 2018, 9, . | 4.1 | 1,142 |
| 5 | Remdesivir is a direct-acting antiviral that inhibits RNA-dependent RNA polymerase from severe acute respiratory syndrome coronavirus 2 with high potency. Journal of Biological Chemistry, 2020, 295, 6785-6797. | 3.4 | 752 |
| 6 | The antiviral compound remdesivir potently inhibits RNA-dependent RNA polymerase from Middle East respiratory syndrome coronavirus. Journal of Biological Chemistry, 2020, 295, 4773-4779. | 3.4 | 659 |
| 7 | Discovery and Synthesis of a Phosphoramidate Prodrug of a Pyrrolo[2,1-f][triazin-4-amino] Adenine C-Nucleoside (GS-5734) for the Treatment of Ebola and Emerging Viruses. Journal of Medicinal Chemistry, 2017, 60, 1648-1661. | 6.4 | 547 |
| 8 | Mechanism of Inhibition of Ebola Virus RNA-Dependent RNA Polymerase by Remdesivir. Viruses, 2019, 11, 326. | 3.3 | 478 |
| 9 | Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. Cell Reports, 2020, 32, 107940. | 6.4 | 412 |
| 10 | Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. Antiviral Research, 2019, 169, 104541. | 4.1 | 398 |
| 11 | Structural basis for RNA replication by the hepatitis C virus polymerase. Science, 2015, 347, 771-775. | 12.6 | 294 |
| 12 | Synthesis and antiviral activity of a series of 1â€²-substituted 4-aza-7,9-dideazaadenosine C-nucleosides. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2705-2707. | 2.2 | 173 |
| 13 | Mechanistic Studies Examining the Efficiency and Fidelity of DNA Synthesis by the 3TC-Resistant Mutant (184V) of HIV-1 Reverse Transcriptaseâ€. Biochemistry, 1999, 38, 9440-9448. | 2.5 | 123 |
| 14 | Template-dependent inhibition of coronavirus RNA-dependent RNA polymerase by remdesivir reveals a second mechanism of action. Journal of Biological Chemistry, 2020, 295, 16156-16165. | 3.4 | 120 |
| 15 | Sensitivity of Mitochondrial Transcription and Resistance of RNA Polymerase II Dependent Nuclear Transcription to Antiviral Ribonucleosides. PLoS Pathogens, 2012, 8, e1003030. | 4.7 | 119 |
| 16 | Discovery of the First C-Nucleoside HCV Polymerase Inhibitor (GS-6620) with Demonstrated Antiviral Response in HCV Infected Patients. Journal of Medicinal Chemistry, 2014, 57, 1812-1825. | 6.4 | 108 |
| 17 | Mechanism of Action of 1-Î²- d -2,6-Diaminopurine Dioxolane, a Prodrug of the Human Immunodeficiency Virus Type 1 Inhibitor 1-Î²- d -Dioxolane Guanosine. Antimicrobial Agents and Chemotherapy, 2001, 45, 158-165. | 3.2 | 81 |
| 18 | Mechanistic Studies Comparing the Incorporation of (+) and (â^') Isomers of 3TCTP by HIV-1 Reverse Transcriptaseâ€. Biochemistry, 1999, 38, 55-63. | 2.5 | 78 |

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|---|---|---|---|
| 19 | Relationship between Antiviral Activity and Host Toxicity: Comparison of the Incorporation Efficiencies of 2â€²,3â€²-Dideoxy-5-Fluoro-3â€²-Thiacytidine-Triphosphate Analogs by Human Immunodeficiency Virus Type 1 Reverse Transcriptase and Human Mitochondrial DNA Polymerase. Antimicrobial Agents and Chemotherapy, 2004, 48, 1300-1306. | 3.2 | 71 |
| 20 | The K65R Reverse Transcriptase Mutation in HIV-1 Reverses the Excision Phenotype of Zidovudine Resistance Mutations. Antiviral Therapy, 2006, 11, 155-163. | 1.0 | 69 |
| 21 | Role of Mitochondrial RNA Polymerase in the Toxicity of Nucleotide Inhibitors of Hepatitis C Virus. Antimicrobial Agents and Chemotherapy, 2016, 60, 806-817. | 3.2 | 68 |
| 22 | Mechanistic studies show that (â˜)â€FTCâ€TP is a better inhibitor of HIVâ€1 reverse transcriptase than 3TCâ€TP. FASEB Journal, 1999, 13, 1511-1517. | 0.5 | 66 |
| 23 | The A62V and S68G Mutations in HIV-1 Reverse Transcriptase Partially Restore the Replication Defect Associated With the K65R Mutation. Journal of Acquired Immune Deficiency Syndromes (1999), 2008, 48, 428-436. | 2.1 | 58 |
| 24 | Biochemical characterization of tirabrutinib and other irreversible inhibitors of Bruton's tyrosine kinase reveals differences in on - and off - target inhibition. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129531. | 2.4 | 57 |
| 25 | The triple combination of tenofovir, emtricitabine and efavirenz shows synergistic anti-HIV-1 activity in vitro: a mechanism of action study. Retrovirology, 2009, 6, 44. | 2.0 | 56 |
| 26 | Therapeutic treatment with an oral prodrug of the remdesivir parental nucleoside is protective against SARS-CoV-2 pathogenesis in mice. Science Translational Medicine, 2022, 14, eabm3410. | 12.4 | 49 |
| 27 | Addressing the selectivity and toxicity of antiviral nucleosides. Antiviral Chemistry and Chemotherapy, 2018, 26, 204020661875852. | 0.6 | 45 |
| 28 | Inhibition of Hepatitis C Virus Replication by GS-6620, a Potent C -Nucleoside Monophosphate Prodrug. Antimicrobial Agents and Chemotherapy, 2014, 58, 1930-1942. | 3.2 | 38 |
| 29 | Off-Target In Vitro Profiling Demonstrates that Remdesivir Is a Highly Selective Antiviral Agent. Antimicrobial Agents and Chemotherapy, 2021, 65, . | 3.2 | 38 |
| 30 | Prevention and therapy of SARS-CoV-2 and the B.1.351 variant in mice. Cell Reports, 2021, 36, 109450. | 6.4 | 38 |
| 31 | Synthesis and characterization of 2â€²-C-Me branched C-nucleosides as HCV polymerase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4127-4132. | 2.2 | 37 |
| 32 | Key Metabolic Enzymes Involved in Remdesivir Activation in Human Lung Cells. Antimicrobial Agents and Chemotherapy, 2021, 65, e0060221. | 3.2 | 37 |
| 33 | In Vitro Combination of Amdoxovir and the Inosine Monophosphate Dehydrogenase Inhibitors Mycophenolic Acid and Ribavirin Demonstrates Potent Activity against Wild-Type and Drug-Resistant Variants of Human Immunodeficiency Virus Type 1. Antimicrobial Agents and Chemotherapy, 2004, 48, 4387-4394. | 3.2 | 35 |
| 34 | The K65R reverse transcriptase mutation in HIV-1 reverses the excision phenotype of zidovudine resistance mutations. Antiviral Therapy, 2006, 11, 155-63. | 1.0 | 34 |
| 35 | Dioxolane Guanosine 5â€²-Triphosphate, an Alternative Substrate Inhibitor of Wild-type and Mutant HIV-1 Reverse Transcriptase. Journal of Biological Chemistry, 2003, 278, 18971-18979. | 3.4 | 32 |
| 36 | Virologic and Enzymatic Studies Revealing the Mechanism of K65R- and Q151M-Associated HIV-1 Drug Resistance Towards Emtricitabine and Lamivudine. Nucleosides, Nucleotides and Nucleic Acids, 2006, 25, 89-107. | 1.1 | 25 |

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|---|---|---|---|
| 37 | Efficient incorporation and template-dependent polymerase inhibition are major determinants for the broad-spectrum antiviral activity of remdesivir. Journal of Biological Chemistry, 2022, 298, 101529. | 3.4 | 25 |
| 38 | Discovery of Î²-d-2â€²-deoxy-2â€²-Î±-fluoro-4â€²-Î±-cyano-5-aza-7,9-dideaza adenosine as a potent nucleoside inhibitor of respiratory syncytial virus with excellent selectivity over mitochondrial RNA and DNA polymerases. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2484-2487. | 2.2 | 23 |
| 39 | Anabolism of amdoxovir: phosphorylation of dioxolane guanosine and its 5â€²-phosphates by mammalian phosphotransferases. Biochemical Pharmacology, 2004, 68, 1879-1888. | 4.4 | 20 |
| 40 | Nucleoside Diphosphate Kinase and the Activation of Antiviral Phosphonate Analogs of Nucleotides: Binding Mode and Phosphorylation of Tenofovir Derivatives. Nucleosides, Nucleotides and Nucleic Acids, 2009, 28, 776-792. | 1.1 | 18 |
| 41 | Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. SSRN Electronic Journal, 0, , . | 0.4 | 15 |
| 42 | Deoxythioguanosine triphosphate impairs HIV replication: a new mechanism for an old drug. FASEB Journal, 2001, 15, 1902-1908. | 0.5 | 13 |
| 43 | Discovery of Potent and Selective MTH1 Inhibitors for Oncology: Enabling Rapid Target (In)Validation. ACS Medicinal Chemistry Letters, 2020, 11, 358-364. | 2.8 | 11 |
| 44 | Biochemical characterization of recombinant influenza A polymerase heterotrimer complex: Polymerase activity and mechanisms of action of nucleotide analogs. PLoS ONE, 2017, 12, e0185998. | 2.5 | 10 |
| 45 | Dead-end complexes contribute to the synergistic inhibition of HIV-1 RT by the combination of rilpivirine, emtricitabine, and tenofovir. Antiviral Research, 2014, 101, 131-135. | 4.1 | 9 |
| 46 | The Nucleoside/Nucleotide Analogs Tenofovir and Emtricitabine Are Inactive against SARS-CoV-2. Molecules, 2022, 27, 4212. | 3.8 | 9 |
| 47 | Effects of HIV Q151M-associated multi-drug resistance mutations on the activities of (â^')-Î²-d-1â€²,3â€²-dioxolan guanine. Antiviral Research, 2005, 66, 153-158. | 4.1 | 7 |
| 48 | Discovery of a 2â€²-fluoro-2â€²- C -methyl C -nucleotide HCV polymerase inhibitor and a phosphoramidate prodrug with favorable properties. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 1840-1847. | 2.2 | 7 |
| 49 | Role of Mitochondrial Toxicity in BMS-986094-Induced Toxicity. Toxicological Sciences, 2017, 155, 2-2. | 3.1 | 7 |
| 50 | Nucleotide Prodrug Containing a Nonproteinogenic Amino Acid To Improve Oral Delivery of a Hepatitis C Virus Treatment. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 3.2 | 6 |
| 51 | HCV RdRp, sofosbuvir and beyond. The Enzymes, 2021, 49, 63-82. | 1.7 | 5 |
| 52 | Biochemical characterization of recombinant influenza A polymerase heterotrimer complex: Endonuclease activity and evaluation of inhibitors. PLoS ONE, 2017, 12, e0181969. | 2.5 | 4 |
| 53 | Reply to Yan and Muller, â€œRemdesivir for COVID-19: Why Not Dose Higher?â€• Antimicrobial Agents and Chemotherapy, 2021, 65, . | 3.2 | 2 |
| 54 | Species-Specific Urothelial Toxicity With an Anti-HIV Noncatalytic Site Integrase Inhibitor (NCINI) Is Related to Unusual pH-Dependent Physicochemical Changes. Toxicological Sciences, 2021, 183, 105-116. | 3.1 | 1 |

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|---|---|---|---|
| 55 | Semiâ€Mechanistic PK/PD Modeling and Simulation of Irreversible BTK Inhibition to Support Dose Selection of Tirabrutinib in Subjects with RA. Clinical Pharmacology and Therapeutics, 2022, 111, 416-424. | 4.7 | 1 |
| 56 | Reply to Yan and Muller, â€œSingle-Cell RNA Sequencing Supports Preferential Bioactivation of Remdesivir in the Liverâ€. Antimicrobial Agents and Chemotherapy, 2021, 65, e0139421. | 3.2 | 0 |