# Jun Cai

## List of Publications by Year in descending order

| 40 papers | 3,189 citations | 394421 | 289244 |
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| | | 19 h-index | 40 g-index |

| 51 all docs | 51 docs citations | 51 times ranked | 4920 citing authors |
| --- | --- | --- | --- |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. BMC Medicine, 2022, 20, 37. | 5.5 | 10 |
| 2 | Assessing the transition of COVID-19 burden towards the young population while vaccines are rolled out in China*. Emerging Microbes and Infections, 2022, 11, 1205-1214. | 6.5 | 5 |
| 3 | AdpA, a developmental regulator, promotesÂÎµ-poly-l-lysine biosynthesis in Streptomyces albulus. Microbial Cell Factories, 2022, 21, 60. | 4.0 | 6 |
| 4 | Modeling transmission of SARS-CoV-2 Omicron in China. Nature Medicine, 2022, 28, 1468-1475. | 30.7 | 177 |
| 5 | NupR Responding to Multiple Signals Is a Nucleoside Permease Regulator in Bacillus thuringiensis BMB171. Microbiology Spectrum, 2022, 10, . | 3.0 | 1 |
| 6 | Despite vaccination, China needs non-pharmaceutical interventions to prevent widespread outbreaks of COVID-19 in 2021. Nature Human Behaviour, 2021, 5, 1009-1020. | 12.0 | 81 |
| 7 | Time-varying optimization of COVID-19 vaccine prioritization in the context of limited vaccination capacity. Nature Communications, 2021, 12, 4673. | 12.8 | 56 |
| 8 | Mechanistic modelling of multiple waves in an influenza epidemic or pandemic. Journal of Theoretical Biology, 2020, 486, 110070. | 1.7 | 7 |
| 9 | Global COVID-19 pandemic demands joint interventions for the suppression of future waves. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26151-26157. | 7.1 | 33 |
| 10 | An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. Science, 2020, 368, 638-642. | 12.6 | 1,554 |
| 11 | The impact of anthropogenic and environmental factors on human rabies cases in China. Transboundary and Emerging Diseases, 2020, 67, 2544-2553. | 3.0 | 8 |
| 12 | Influence of meteorological conditions on PM2.5 concentrations across China: A review of methodology and mechanism. Environment International, 2020, 139, 105558. | 10.0 | 281 |
| 13 | Intrinsic and extrinsic drivers of transmission dynamics of hemorrhagic fever with renal syndrome caused by Seoul hantavirus. PLoS Neglected Tropical Diseases, 2019, 13, e0007757. | 3.0 | 15 |
| 14 | A maximum curvature method for estimating epidemic onset of seasonal influenza in Japan. BMC Infectious Diseases, 2019, 19, 181. | 2.9 | 5 |
| 15 | Soft-Sensor Model for Chemical Processes Based on D-Vine Copula with Rolling Pin Transformation. Industrial &amp; Engineering Chemistry Research, 2019, 58, 18965-18975. | 3.7 | 5 |
| 16 | A single point mutation in hmgA leads to melanin accumulation in Bacillus thuringiensis BMB181. Enzyme and Microbial Technology, 2019, 120, 91-97. | 3.2 | 12 |
| 17 | Size controllable one step synthesis of gold nanoparticles using carboxymethyl chitosan. International Journal of Biological Macromolecules, 2019, 122, 770-783. | 7.5 | 27 |
| 18 | Roles of Different Transport Modes in the Spatial Spread of the 2009 Influenza A(H1N1) Pandemic in Mainland China. International Journal of Environmental Research and Public Health, 2019, 16, 222. | 2.6 | 29 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | Spatial self-aggregation effects and national division of city-level PM2.5 concentrations in China based on spatio-temporal clustering. Journal of Cleaner Production, 2019, 207, 875-881. | 9.3 | 36 |
| 20 | Epidemic curves made easy using the R package incidence. F1000Research, 2019, 8, 139. | 1.6 | 41 |
| 21 | Non-inheritable risk factors during pregnancy for congenital heart defects in offspring: A matched case-control study. International Journal of Cardiology, 2018, 264, 45-52. | 1.7 | 18 |
| 22 | Complete genome sequence of Bacillus thuringiensis L-7601, a wild strain with high production of melanin. Journal of Biotechnology, 2018, 275, 40-43. | 3.8 | 20 |
| 23 | Understanding meteorological influences on PM&amp;lt;sub&amp;gt;2.5&amp;lt;/sub&amp;gt; concentrations across China: a temporal and spatial perspective. Atmospheric Chemistry and Physics, 2018, 18, 5343-5358. | 4.9 | 157 |
| 24 | Understanding the Influence of Crop Residue Burning on PM2.5 and PM10 Concentrations in China from 2013 to 2017 Using MODIS Data. International Journal of Environmental Research and Public Health, 2018, 15, 1504. | 2.6 | 17 |
| 25 | Detecting the causality influence of individual meteorological factors on local PM2.5 concentration in the Jing-Jin-Ji region. Scientific Reports, 2017, 7, 40735. | 3.3 | 99 |
| 26 | Understanding the Rising Phase of the PM2.5 Concentration Evolution in Large China Cities. Scientific Reports, 2017, 7, 46456. | 3.3 | 37 |
| 27 | Daily estimation of ground-level PM2.5 concentrations at 4 km resolution over Beijing-Tianjin-Hebei by fusing MODIS AOD and ground observations. Science of the Total Environment, 2017, 580, 235-244. | 8.0 | 79 |
| 28 | One pot synthesis of gold nanoparticles using chitosan with varying degree of deacetylation and molecular weight. Carbohydrate Polymers, 2017, 178, 105-114. | 10.2 | 51 |
| 29 | Interannual cycles of Hantaan virus outbreaks at the human–animal interface in Central China are controlled by temperature and rainfall. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8041-8046. | 7.1 | 67 |
| 30 | Examining the Influence of Crop Residue Burning on Local PM2.5 Concentrations in Heilongjiang Province Using Ground Observation and Remote Sensing Data. Remote Sensing, 2017, 9, 971. | 4.0 | 8 |
| 31 | Inference and forecast of H7N9 influenza in China, 2013 to 2015. Eurosurveillance, 2017, 22, . | 7.0 | 6 |
| 32 | Meteorological influence on the 2009 influenza a (H1N1) pandemic in mainland China. Environmental Earth Sciences, 2016, 75, 1. | 2.7 | 5 |
| 33 | Preliminary analysis of allelochemicals produced by the diatom Phaeodactylum tricornutum. Chemosphere, 2016, 165, 298-303. | 8.2 | 13 |
| 34 | Vip3Aa induces apoptosis in cultured Spodoptera frugiperda (Sf9) cells. Toxicon, 2016, 120, 49-56. | 1.6 | 44 |
| 35 | Understanding temporal patterns and characteristics of air quality in Beijing: A local and regional perspective. Atmospheric Environment, 2016, 127, 303-315. | 4.1 | 44 |
| 36 | YvoA and CcpA Repress the Expression ofchiBin Bacillus thuringiensis. Applied and Environmental Microbiology, 2015, 81, 6548-6557. | 3.1 | 8 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Consistency and differences between remotely sensed and surface observed total cloud cover over China. International Journal of Remote Sensing, 2015, 36, 4160-4176. | 2.9 | 6 |
| 38 | Estimating regional amount of low clouds over North China plain from multi-source remote sensing data. , 2014, , . | | 0 |
| 39 | Characterization of the Global Spatio-temporal Transmission of the 2009 Pandemic H1N1 Influenza. Geo-information Science, 2012, 14, 794. | 0.1 | 2 |
| 40 | Spectroscopic investigation of the structure of protoxin protein isolated from <i>Bacillus thuringiensis</i> contacted with minerals. Biocontrol Science and Technology, 2010, 20, 841-852. | 1.3 | 1 |