

Jun Cai

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,189
citations

394286

19
h-index

289141

40
g-index

51
all docs

51
docs citations

51
times ranked

4920
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. <i>Science</i> , 2020, 368, 638-642.	6.0	1,554
2	Influence of meteorological conditions on PM _{2.5} concentrations across China: A review of methodology and mechanism. <i>Environment International</i> , 2020, 139, 105558.	4.8	281
3	Modeling transmission of SARS-CoV-2 Omicron in China. <i>Nature Medicine</i> , 2022, 28, 1468-1475.	15.2	177
4	Understanding meteorological influences on PM _{2.5} concentrations across China: a temporal and spatial perspective. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5343-5358.	1.9	157
5	Detecting the causality influence of individual meteorological factors on local PM _{2.5} concentration in the Jing-Jin-Ji region. <i>Scientific Reports</i> , 2017, 7, 40735.	1.6	99
6	Despite vaccination, China needs non-pharmaceutical interventions to prevent widespread outbreaks of COVID-19 in 2021. <i>Nature Human Behaviour</i> , 2021, 5, 1009-1020.	6.2	81
7	Daily estimation of ground-level PM _{2.5} concentrations at 4 km resolution over Beijing-Tianjin-Hebei by fusing MODIS AOD and ground observations. <i>Science of the Total Environment</i> , 2017, 580, 235-244.	3.9	79
8	Interannual cycles of Hantaan virus outbreaks at the human-animal interface in Central China are controlled by temperature and rainfall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8041-8046.	3.3	67
9	Time-varying optimization of COVID-19 vaccine prioritization in the context of limited vaccination capacity. <i>Nature Communications</i> , 2021, 12, 4673.	5.8	56
10	One pot synthesis of gold nanoparticles using chitosan with varying degree of deacetylation and molecular weight. <i>Carbohydrate Polymers</i> , 2017, 178, 105-114.	5.1	51
11	Vip3Aa induces apoptosis in cultured <i>Spodoptera frugiperda</i> (Sf9) cells. <i>Toxicon</i> , 2016, 120, 49-56.	0.8	44
12	Understanding temporal patterns and characteristics of air quality in Beijing: A local and regional perspective. <i>Atmospheric Environment</i> , 2016, 127, 303-315.	1.9	44
13	Epidemic curves made easy using the R package incidence. <i>F1000Research</i> , 2019, 8, 139.	0.8	41
14	Understanding the Rising Phase of the PM _{2.5} Concentration Evolution in Large China Cities. <i>Scientific Reports</i> , 2017, 7, 46456.	1.6	37
15	Spatial self-aggregation effects and national division of city-level PM _{2.5} concentrations in China based on spatio-temporal clustering. <i>Journal of Cleaner Production</i> , 2019, 207, 875-881.	4.6	36
16	Global COVID-19 pandemic demands joint interventions for the suppression of future waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26151-26157.	3.3	33
17	Roles of Different Transport Modes in the Spatial Spread of the 2009 Influenza A(H1N1) Pandemic in Mainland China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 222.	1.2	29
18	Size controllable one step synthesis of gold nanoparticles using carboxymethyl chitosan. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 770-783.	3.6	27

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19	Complete genome sequence of <i>Bacillus thuringiensis</i> L-7601, a wild strain with high production of melanin. <i>Journal of Biotechnology</i> , 2018, 275, 40-43.	1.9	20
20	Non-inheritable risk factors during pregnancy for congenital heart defects in offspring: A matched case-control study. <i>International Journal of Cardiology</i> , 2018, 264, 45-52.	0.8	18
21	Understanding the Influence of Crop Residue Burning on PM2.5 and PM10 Concentrations in China from 2013 to 2017 Using MODIS Data. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1504.	1.2	17
22	Intrinsic and extrinsic drivers of transmission dynamics of hemorrhagic fever with renal syndrome caused by Seoul hantavirus. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007757.	1.3	15
23	Preliminary analysis of allelochemicals produced by the diatom <i>Phaeodactylum tricornutum</i> . <i>Chemosphere</i> , 2016, 165, 298-303.	4.2	13
24	A single point mutation in <i>hmgA</i> leads to melanin accumulation in <i>Bacillus thuringiensis</i> BMB181. <i>Enzyme and Microbial Technology</i> , 2019, 120, 91-97.	1.6	12
25	Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. <i>BMC Medicine</i> , 2022, 20, 37.	2.3	10
26	<i>YvoA</i> and <i>CcpA</i> Repress the Expression of <i>chiBin</i> in <i>Bacillus thuringiensis</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 6548-6557.	1.4	8
27	Examining the Influence of Crop Residue Burning on Local PM2.5 Concentrations in Heilongjiang Province Using Ground Observation and Remote Sensing Data. <i>Remote Sensing</i> , 2017, 9, 971.	1.8	8
28	The impact of anthropogenic and environmental factors on human rabies cases in China. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 2544-2553.	1.3	8
29	Mechanistic modelling of multiple waves in an influenza epidemic or pandemic. <i>Journal of Theoretical Biology</i> , 2020, 486, 110070.	0.8	7
30	Consistency and differences between remotely sensed and surface observed total cloud cover over China. <i>International Journal of Remote Sensing</i> , 2015, 36, 4160-4176.	1.3	6
31	Inference and forecast of H7N9 influenza in China, 2013 to 2015. <i>Eurosurveillance</i> , 2017, 22, .	3.9	6
32	<i>AdpA</i> , a developmental regulator, promotes μ -poly-L-lysine biosynthesis in <i>Streptomyces albulus</i> . <i>Microbial Cell Factories</i> , 2022, 21, 60.	1.9	6
33	Meteorological influence on the 2009 influenza A (H1N1) pandemic in mainland China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	5
34	A maximum curvature method for estimating epidemic onset of seasonal influenza in Japan. <i>BMC Infectious Diseases</i> , 2019, 19, 181.	1.3	5
35	Soft-Sensor Model for Chemical Processes Based on D-Vine Copula with Rolling Pin Transformation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18965-18975.	1.8	5
36	Assessing the transition of COVID-19 burden towards the young population while vaccines are rolled out in China*. <i>Emerging Microbes and Infections</i> , 2022, 11, 1205-1214.	3.0	5

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37	Characterization of the Global Spatio-temporal Transmission of the 2009 Pandemic H1N1 Influenza. <i>Geo-information Science</i> , 2012, 14, 794.	0.1	2
38	Spectroscopic investigation of the structure of protoxin protein isolated from <i>Bacillus thuringiensis</i> contacted with minerals. <i>Biocontrol Science and Technology</i> , 2010, 20, 841-852.	0.5	1
39	NupR Responding to Multiple Signals Is a Nucleoside Permease Regulator in <i>Bacillus thuringiensis</i> BMB171. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	1
40	Estimating regional amount of low clouds over North China plain from multi-source remote sensing data. , 2014, , .		0