Lin Wang

List of Publications by Year
in descending order

69 papers	8,683 citations	136950 32 h-index	102487 66 g-index
74 all docs	74 docs citations	74 times ranked	11495 citing authors

#	Article	IF	Citations
1	The effect of human mobility and control measures on the COVID-19 epidemic in China. Science, 2020, 368, 493-497.	12.6	2,168
2	Age-specific mortality and immunity patterns of SARS-CoV-2. Nature, 2021, 590, 140-145.	27.8	883
3	Evolutionary games on multilayer networks: a colloquium. European Physical Journal B, 2015, 88, 1.	1.5	604
4	Serial Interval of COVID-19 among Publicly Reported Confirmed Cases. Emerging Infectious Diseases, 2020, 26, 1341-1343.	4.3	546
5	Coupled diseaseâ€“behavior dynamics on complex networks: A review. Physics of Life Reviews, 2015, 15, 1-29.	2.8	385
6	Risk for Transportation of Coronavirus Disease from Wuhan to Other Cities in China. Emerging Infectious Diseases, 2020, 26, 1049-1052.	4.3	323
7	Serial interval of SARS-CoV-2 was shortened over time by nonpharmaceutical interventions. Science, 2020, 369, 1106-1109.	12.6	303
8	The fundamental advantages of temporal networks. Science, 2017, 358, 1042-1046.	12.6	287
9	Epidemiological data from the COVID-19 outbreak, real-time case information. Scientific Data, 2020, 7, 106.	5.3	280
10	Social physics. Physics Reports, 2022, 948, 1-148.	25.6	231
11	Degree mixing in multilayer networks impedes the evolution of cooperation. Physical Review E, 2014, 89, 052813.	2.1	209
12	Open access epidemiological data from the COVID-19 outbreak. Lancet Infectious Diseases, The, 2020, 20, 534.	9.1	205
13	Inferring Reputation Promotes the Evolution of Cooperation in Spatial Social Dilemma Games. PLoS ONE, 2012, 7, e40218.	2.5	174
14	Spatial epidemiology of networked metapopulation: an overview. Science Bulletin, 2014, 59, 3511-3522.	1.7	169
15	Evolutionary Prisoner's Dilemma on heterogeneous Newman-Watts small-world network. European Physical Journal B, 2007, 56, 367-372.	1.5	156
16	Spontaneous Symmetry Breaking in Interdependent Networked Game. Scientific Reports, 2014, 4, 4095.	3.3	151
17	Characterizing the dynamics underlying global spread of epidemics. Nature Communications, 2018, 9, 218.	12.8	118
18	Immunization of Epidemics in Multiplex Networks. PLoS ONE, 2014, 9, e112018.	2.5	107

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19	Optimization of identifiability for efficient community detection. New Journal of Physics, 2020, 22, 063035.	2.9	103
20	Reconstruction of Transmission Pairs for Novel Coronavirus Disease 2019 (COVID-19) in Mainland China: Estimation of Superspreading Events, Serial Interval, and Hazard of Infection. Clinical Infectious Diseases, 2020, 71, 3163-3167.	5.8	91
21	How human location-specific contact patterns impact spatial transmission between populations?. Scientific Reports, 2013, 3, 1468.	3.3	84
22	Immunity of multiplex networks via acquaintance vaccination. Europhysics Letters, 2015, 112, 48002.	2.0	82
23	Measuring the effects of COVID-19-related disruption on dengue transmission in southeast Asia and Latin America: a statistical modelling study. Lancet Infectious Diseases, The, 2022, 22, 657-667.	9.1	68
24	Evolution of Scaling Emergence in Large-Scale Spatial Epidemic Spreading. PLoS ONE, 2011, 6, e21197.	2.5	65
25	Multi-scale asynchronous belief percolation model on multiplex networks. New Journal of Physics, 2019, 21, 015005.	2.9	63
26	Identifying Spatial Invasion of Pandemics on Metapopulation Networks Via Anatomizing Arrival History. IEEE Transactions on Cybernetics, 2016, 46, 2782-2795.	9.5	61
27	Noise-induced enhancement of network reciprocity in social dilemmas. Chaos, Solitons and Fractals, 2013, 51, 31-35.	5.1	57
28	Impacts of subsidy policies on vaccination decisions in contact networks. Physical Review E, 2013, 88, 012813.	2.1	57
29	Global Spatio-temporal Patterns of Influenza in the Post-pandemic Era. Scientific Reports, 2015, 5, 11013.	3.3	55
30	Effects of Proactive Social Distancing on COVID-19 Outbreaks in 58 Cities, China. Emerging Infectious Diseases, 2020, 26, 2267-2269.	4.3	55
31	Towards a temporal network analysis of interactive WiFi users. Europhysics Letters, 2012, 98, 68002.	2.0	52
32	Freezing period strongly impacts the emergence of a global consensus in the voter model. Scientific Reports, 2014, 4, 3597.	3.3	40
33	Reproduction Number of the Omicron Variant Triples That of the Delta Variant. Viruses, 2022, 14, 821.	3.3	38
34	Estimating the value of containment strategies in delaying the arrival time of an influenza pandemic: A case study of travel restriction and patient isolation. Physical Review E, 2012, 86, 032901.	2.1	36
35	THE IMPACT OF HUMAN LOCATION-SPECIFIC CONTACT PATTERN ON THE SIR EPIDEMIC TRANSMISSION BETWEEN POPULATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350095.	1.7	32
36	Modeling comparative cost-effectiveness of SARS-CoV-2 vaccine dose fractionation in India. Nature Medicine, 2022, 28, 934-938.	30.7	27

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37	Reproduction Numbers of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Variants: A Systematic Review and Meta-analysis. Clinical Infectious Diseases, 2022, 75, e293-e295.	5.8	20
38	Self organized criticality in a modified Olami-Feder-Christensen model. European Physical Journal B, 2011, 82, 83-89.	1.5	18
39	Measuring the Network Vulnerability Based on Markov Criticality. ACM Transactions on Knowledge Discovery From Data, 2022, 16, 1-24.	3.5	18
40	Rapid impact assessments of COVID-19 control measures against the Delta variant and short-term projections of new confirmed cases in Vietnam. Journal of Global Health, 2021, 11, 03118.	2.7	18
41	Analysis of self-organized criticality in weighted coupled systems. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1249-1256.	2.6	17
42	Locating the source node of diffusion process in cyber-physical networks via minimum observers. Chaos, 2019, 29, 063117.	2.5	17
43	Serial Intervals and Case Isolation Delays for Coronavirus Disease 2019: A Systematic Review and Meta-Analysis. Clinical Infectious Diseases, 2021, , .	5.8	17
44	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
45	Assessing the role of multiple mechanisms increasing the age of dengue cases in Thailand. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115790119.	7.1	16
46	Risk for International Importations of Variant SARS-CoV-2 Originating in the United Kingdom. Emerging Infectious Diseases, 2021, 27, 1527-1529.	4.3	14
47	A new propagation model coupling the offline and online social networks. Nonlinear Dynamics, 2019, 98, 2171-2183.	5.2	13
48	Urban-Rural Disparities for COVID-19: Evidence from 10 Countries and Areas in the Western Pacific. Health Data Science, 2021, 2021, .	2.3	12
49	Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study. The Lancet Regional Health Americas, 2022, 8, 100182.	2.6	10
50	An extensive weight-driven network with non-linear growth information. Europhysics Letters, 2008, 84, 58006.	2.0	9
51	Multiscale mobility explains differential associations between the gross domestic product and COVID-19 transmission in Chinese cities. Journal of Travel Medicine, 2021, 28, .	3.0	7
52	Systematic review and metaâ€analyses of superspreading of SARSâ€CoVâ€2 infections. Transboundary and Emerging Diseases, 2022, 69, .	3.0	7
53	SELF-ORGANIZED CRITICALITY IN A WEIGHTED EARTHQUAKE MODEL. International Journal of Modern Physics C, 2009, 20, 351-360.	1.7	6
54	Spatial coupled diseaseâ€“behavior framework as a dynamic and adaptive system. Physics of Life Reviews, 2015, 15, 57-60.	2.8	6

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55	Beneath the surface: Amino acid variation underlying two decades of dengue virus antigenic dynamics in Bangkok, Thailand. PLoS Pathogens, 2022, 18, e1010500.	4.7	5
56	A Mixed Mechanism of Weighted-Driven and Inner Selection in Networks. Communications in Theoretical Physics, 2009, 51, 947-953.	2.5	4
57	Inferring spatial transmission of epidemics in networked metapopulations. , 2015, , .		4
58	The spatial dissemination of COVID-19 and associated socio-economic consequences. Journal of the Royal Society Interface, 2022, 19, 20210662.	3.4	4
59	Self-Organized Criticality Analysis of Earthquake Model Based on Heterogeneous Networks. Communications in Theoretical Physics, 2011, 55, 89-94.	2.5	3
60	Understanding spatial spread of emerging infectious diseases in contemporary populations. Physics of Life Reviews, 2016, 19, 95-97.	2.8	3
61	What can AI learn from bionic algorithms?. Physics of Life Reviews, 2019, 29, 41-43.	2.8	3
62	Editorial: Mathematical Modelling of the Pandemic of 2019 Novel Coronavirus (COVID-19): Patterns, Dynamics, Prediction, and Control. Frontiers in Physics, 2021, 9, .	2.1	3
63	Assessing the spread risk of COVID-19 associated with multi-mode transportation networks in China. Fundamental Research, 2023, 3, 305-310.	3.3	3
64	Is the universal scaling for the dilemma strength still available in populations with heterogeneous connectivity or activities?. Physics of Life Reviews, 2015, 14, 43-44.	2.8	2
65	Avalanche dynamics of a generalized earthquake model. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1463-1471.	2.6	2
66	COVID-19 Importation Risk From Olympic Athletes Prior to the Tokyo 2020 Olympics. Frontiers in Physics, 2021, 9, .	2.1	2
67	Optimizing COVID-19 surveillance using historical electronic health records of influenza infections. , 0, , .		2
68	Editorial: Interference of COVID-19 and Influenza Infections. Frontiers in Public Health, 2021, 9, 818199.	2.7	1
69	Pithy burnout prevention. Science, 2019, 365, 22-23.	12.6	0