

# Zheng-xin Wang

## List of Publications by Year in descending order

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43  
papers

1,848  
citations

304368

22  
h-index

276539

41  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting Chinese carbon emissions from fossil energy consumption using non-linear grey multivariable models. <i>Journal of Cleaner Production</i> , 2017, 142, 600-612.	4.6	200
2	A seasonal GM(1,1) model for forecasting the electricity consumption of the primary economic sectors. <i>Energy</i> , 2018, 154, 522-534.	4.5	190
3	Modelling the nonlinear relationship between CO2 emissions and economic growth using a PSO algorithm-based grey Verhulst model. <i>Journal of Cleaner Production</i> , 2019, 207, 214-224.	4.6	180
4	Grey forecasting method of quarterly hydropower production in China based on a data grouping approach. <i>Applied Mathematical Modelling</i> , 2017, 51, 302-316.	2.2	107
5	Evaluation of the provincial competitiveness of the Chinese high-tech industry using an improved TOPSIS method. <i>Expert Systems With Applications</i> , 2014, 41, 2824-2831.	4.4	102
6	An improved grey multivariable model for predicting industrial energy consumption in China. <i>Applied Mathematical Modelling</i> , 2016, 40, 5745-5758.	2.2	92
7	An optimized NGBM(1,1) model for forecasting the qualified discharge rate of industrial wastewater in China. <i>Applied Mathematical Modelling</i> , 2011, 35, 5524-5532.	2.2	90
8	Optimal modeling and forecasting of the energy consumption and production in China. <i>Energy</i> , 2014, 77, 623-634.	4.5	89
9	Forecasting the industrial solar energy consumption using a novel seasonal GM(1,1) model with dynamic seasonal adjustment factors. <i>Energy</i> , 2020, 200, 117460.	4.5	66
10	An optimized Nash nonlinear grey Bernoulli model for forecasting the main economic indices of high technology enterprises in China. <i>Computers and Industrial Engineering</i> , 2013, 64, 780-787.	3.4	64
11	Model comparison of GM(1,1) and DGM(1,1) based on Monte-Carlo simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 542, 123341.	1.2	47
12	Unbiased Grey Verhulst Model and Its Application. <i>Systems Engineering - Theory &amp; Practice</i> , 2009, 29, 138-144.	0.3	46
13	Forecasting the residential solar energy consumption of the United States. <i>Energy</i> , 2019, 178, 610-623.	4.5	42
14	Forecasting the monthly iron ore import of China using a model combining empirical mode decomposition, non-linear autoregressive neural network, and autoregressive integrated moving average. <i>Applied Soft Computing Journal</i> , 2020, 94, 106475.	4.1	41
15	A non-linear systematic grey model for forecasting the industrial economy-energy-environment system. <i>Technological Forecasting and Social Change</i> , 2021, 167, 120707.	6.2	41
16	A Predictive Analysis of Clean Energy Consumption, Economic Growth and Environmental Regulation in China Using an Optimized Grey Dynamic Model. <i>Computational Economics</i> , 2015, 46, 437-453.	1.5	38
17	Decomposition of the factors influencing export fluctuation in China's new energy industry based on a constant market share model. <i>Energy Policy</i> , 2017, 109, 22-35.	4.2	37
18	Prediction of the Number of Patients Infected with COVID-19 Based on Rolling Grey Verhulst Models. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4582.	1.2	29

#	ARTICLE	IF	CITATIONS
19	The External Performance Appraisal of China Energy Regulation: An Empirical Study Using a TOPSIS Method Based on Entropy Weight and Mahalanobis Distance. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 236.	1.2	28
20	A GM(1,N)-based economic cybernetics model for the high-tech industries in China. <i>Kybernetes</i> , 2014, 43, 672-685.	1.2	27
21	Predicting the capital intensity of the new energy industry in China using a new hybrid grey model. <i>Computers and Industrial Engineering</i> , 2018, 126, 507-515.	3.4	25
22	Forecasting the seasonal natural gas consumption in the US using a gray model with dummy variables. <i>Applied Soft Computing Journal</i> , 2021, 113, 108002.	4.1	25
23	A genetic algorithm-based grey method for forecasting food demand after snow disasters: an empirical study. <i>Natural Hazards</i> , 2013, 68, 675-686.	1.6	23
24	Non-Linear Relationship between Economic Growth and CO2 Emissions in China: An Empirical Study Based on Panel Smooth Transition Regression Models. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1568.	1.2	22
25	Analysis of the Influence Mechanism of CO2 Emissions and Verification of the Environmental Kuznets Curve in China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 944.	1.2	21
26	Measurement and comparison of export sophistication of the new energy industry in 30 countries during 2000–2015. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 108, 140-158.	8.2	20
27	The NLS-based nonlinear grey Bernoulli model with an application to employee demand prediction of high-tech enterprises in China. <i>Grey Systems Theory and Application</i> , 2018, 8, 133-143.	1.0	19
28	Assessment of the degree of order in the organisational structure of electricity regulatory institution in China based on shannon entropy. <i>Energy Policy</i> , 2019, 132, 429-439.	4.2	17
29	Assessment of the air pollution emission reduction effect of the coal substitution policy in China: an improved grey modelling approach. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34357-34368.	2.7	16
30	The influence of market reform on the CO2 emission efficiency of China. <i>Journal of Cleaner Production</i> , 2019, 225, 236-247.	4.6	15
31	Testing the trade relationships between China, Singapore, Malaysia and Thailand using grey Lotka-Volterra competition model. <i>Kybernetes</i> , 2016, 45, 931-945.	1.2	14
32	An Empirical Study on the Key Factors of Intelligent Upgrade of Small and Medium-sized Enterprises in China. <i>Sustainability</i> , 2019, 11, 619.	1.6	14
33	Effect evaluation of non-pharmaceutical interventions taken in China to contain the COVID-19 epidemic based on the susceptible-exposed-infected-recovered model. <i>Technological Forecasting and Social Change</i> , 2021, 171, 120987.	6.2	11
34	A novel grey prediction model based on quantile regression. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105617.	1.7	10
35	Estimation of Lorenz curves based on dummy variable regression. <i>Economics Letters</i> , 2019, 177, 69-75.	0.9	8
36	An improved gray Bernoulli model for estimating the relationship between economic growth and pollution emissions. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25638-25654.	2.7	8

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37	A Fourier residual modified Nash nonlinear grey Bernoulli model for forecasting the international trade of Chinese high-tech products. <i>Grey Systems Theory and Application</i> , 2015, 5, 165-177.	1.0	5
38	The NLS-Based Nonlinear Grey Multivariate Model for Forecasting Pollutant Emissions in China. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 471.	1.2	5
39	Identifying the factors of China's seasonal retail sales of consumer goods using a data grouping approachâ€”based GRA method. <i>Grey Systems Theory and Application</i> , 2020, 10, 125-143.	1.0	5
40	EVALUATION OF THE BUSINESS ENVIRONMENT OF PARTICIPATING COUNTRIES OF THE BELT AND ROAD INITIATIVE. <i>Technological and Economic Development of Economy</i> , 2020, 26, 1339-1365.	2.3	4
41	Measurement Methods for Relative Index of Financial Inclusion. <i>Applied Economics Letters</i> , 2023, 30, 827-833.	1.0	3
42	A grey TOPSIS method based on weighted relational coefficient. , 2013, , .		2
43	Some kinds of nonlinear strengthening operators for predicting the output value of china's marine electric power industry. , 2015, , .		0