Zheng-xin Wang

List of Publications by Citations

42 papers	1,225 citations	17 h-index	34 g-index
44 ext. papers	1,573 ext. citations	5.5 avg, IF	5.8 L-index

#	Paper	IF	Citations
42	Forecasting Chinese carbon emissions from fossil energy consumption using non-linear grey multivariable models. *Journal of Cleaner Production*, **2017**, 142, 600-612	10.3	137
41	Modelling the nonlinear relationship between CO2 emissions and economic growth using a PSO algorithm-based grey Verhulst model. *Journal of Cleaner Production*, **2019**, 207, 214-224	10.3	134
40	A seasonal GM(1,1) model for forecasting the electricity consumption of the primary economic sectors. *Energy*, **2018**, 154, 522-534	7.9	115
39	An improved grey multivariable model for predicting industrial energy consumption in China. *Applied Mathematical Modelling*, **2016**, 40, 5745-5758	4.5	78
38	An optimized NGBM(1,1) model for forecasting the qualified discharge rate of industrial wastewater in China. *Applied Mathematical Modelling*, **2011**, 35, 5524-5532	4.5	71
37	Evaluation of the provincial competitiveness of the Chinese high-tech industry using an improved TOPSIS method. *Expert Systems With Applications*, **2014**, 41, 2824-2831	7.8	70
36	Grey forecasting method of quarterly hydropower production in China based on a data grouping approach. *Applied Mathematical Modelling*, **2017**, 51, 302-316	4.5	70
35	Optimal modeling and forecasting of the energy consumption and production in China. *Energy*, **2014**, 77, 623-634	7.9	60
34	An optimized Nash nonlinear grey Bernoulli model for forecasting the main economic indices of high technology enterprises in China. *Computers and Industrial Engineering*, **2013**, 64, 780-787	6.4	50
33	Unbiased Grey Verhulst Model and Its Application. *Systems Engineering - Theory & Practice*, **2009**, 29, 138-144		35
32	A Predictive Analysis of Clean Energy Consumption, Economic Growth and Environmental Regulation in China Using an Optimized Grey Dynamic Model. *Computational Economics*, **2015**, 46, 437-453	1.4	33
31	Forecasting the industrial solar energy consumption using a novel seasonal GM(1,1) model with dynamic seasonal adjustment factors. *Energy*, **2020**, 200, 117460	7.9	31
30	Model comparison of GM(1,1) and DGM(1,1) based on Monte-Carlo simulation. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 542, 123341	3.3	30
29	Forecasting the residential solar energy consumption of the United States. *Energy*, **2019**, 178, 610-623	7.9	28
28	Decomposition of the factors influencing export fluctuation in China's new energy industry based on a constant market share model. *Energy Policy*, **2017**, 109, 22-35	7.2	25
27	A GM(1,N)-based economic cybernetics model for the high-tech industries in China. *Kybernetes*, **2014**, 43, 672-685	2	24
26	Non-Linear Relationship between Economic Growth and CO2 Emissions in China: An Empirical Study Based on Panel Smooth Transition Regression Models. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	20

25	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. *Applied Soft Computing Journal*, **2020**, 94, 106475	7.5	17
24	Prediction of the Number of Patients Infected with COVID-19 Based on Rolling Grey Verhulst Models. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	17
23	A genetic algorithm-based grey method for forecasting food demand after snow disasters: an empirical study. *Natural Hazards*, **2013**, 68, 675-686	3	17
22	The NLS-based nonlinear grey Bernoulli model with an application to employee demand prediction of high-tech enterprises in China. *Grey Systems Theory and Application*, **2018**, 8, 133-143	1.6	16
21	Predicting the capital intensity of the new energy industry in China using a new hybrid grey model. *Computers and Industrial Engineering*, **2018**, 126, 507-515	6.4	15
20	The External Performance Appraisal of China Energy Regulation: An Empirical Study Using a TOPSIS Method Based on Entropy Weight and Mahalanobis Distance. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	14
19	A non-linear systematic grey model for forecasting the industrial economy-energy-environment system. *Technological Forecasting and Social Change*, **2021**, 167, 120707	9.5	13
18	The influence of market reform on the CO_2 emission efficiency of China. *Journal of Cleaner Production*, **2019**, 225, 236-247	10.3	12
17	An Empirical Study on the Key Factors of Intelligent Upgrade of Small and Medium-sized Enterprises in China. *Sustainability*, **2019**, 11, 619	3.6	11
16	Analysis of the Influence Mechanism of CO_2 Emissions and Verification of the Environmental Kuznets Curve in China. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	11
15	Assessment of the air pollution emission reduction effect of the coal substitution policy in China: an improved grey modelling approach. *Environmental Science and Pollution Research*, **2020**, 27, 34357-34368	5.1	11
14	Measurement and comparison of export sophistication of the new energy industry in 30 countries during 2000-2015. *Renewable and Sustainable Energy Reviews*, **2019**, 108, 140-158	16.2	10
13	Testing the trade relationships between China, Singapore, Malaysia and Thailand using grey Lotka-Volterra competition model. *Kybernetes*, **2016**, 45, 931-945	2	10
12	Assessment of the degree of order in the organisational structure of electricity regulatory institution in China based on shannon entropy. *Energy Policy*, **2019**, 132, 429-439	7.2	8
11	A Fourier residual modified Nash nonlinear grey Bernoulli model for forecasting the international trade of Chinese high-tech products. *Grey Systems Theory and Application*, **2015**, 5, 165-177	1.6	5
10	Estimation of Lorenz curves based on dummy variable regression. *Economics Letters*, **2019**, 177, 69-75	1.3	4
9	An improved gray Bernoulli model for estimating the relationship between economic growth and pollution emissions. *Environmental Science and Pollution Research*, **2020**, 27, 25638-25654	5.1	4
8	The NLS-Based Nonlinear Grey Multivariate Model for Forecasting Pollutant Emissions in China. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	4

7	EVALUATION OF THE BUSINESS ENVIRONMENT OF PARTICIPATING COUNTRIES OF THE BELT AND ROAD INITIATIVE. *Technological and Economic Development of Economy*, **2020**, 26, 1339-1365	4.7	3
6	Forecasting the seasonal natural gas consumption in the US using a gray model with dummy variables. *Applied Soft Computing Journal*, **2021**, 113, 108002	7.5	3
5	Effect evaluation of non-pharmaceutical interventions taken in China to contain the COVID-19 epidemic based on the susceptible-exposed-infected-recovered model. *Technological Forecasting and Social Change*, **2021**, 171, 120987	9.5	3
4	Identifying the factors of China's seasonal retail sales of consumer goods using a data grouping approach-based GRA method. *Grey Systems Theory and Application*, **2020**, 10, 125-143	1.6	2
3	A novel grey prediction model based on quantile regression. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 95, 105617	3.7	2
2	A grey TOPSIS method based on weighted relational coefficient **2013**,		1
1	Measurement Methods for Relative Index of Financial Inclusion. *Applied Economics Letters*,1-7	1	1