

Zheng-xin Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 the seasonal natural gas consumption in the US using a gray model with dummy variables. <i>Applied Soft Computing Journal</i> , 2021 , 113, 108002	7.5	3
41	A non-linear systematic grey model for forecasting the industrial economy-energy-environment system. <i>Technological Forecasting and Social Change</i> , 2021 , 167, 120707	9.5	13
40	A novel grey prediction model based on quantile regression. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105617	3.7	2
39	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	9.5	3
38	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	5.1	4
37	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	7.5	17
36	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	5.1	11
35	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,	4.6	17
34	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	7.9	31
33	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	4.7	3
32	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	3.3	30
31	Identifying the factors of China's seasonal retail sales of consumer goods using a data grouping approach based GRA method. <i>Grey Systems Theory and Application</i> , 2020 , 10, 125-143	1.6	2
30	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	7.2	8
29	An Empirical Study on the Key Factors of Intelligent Upgrade of Small and Medium-sized Enterprises in China. <i>Sustainability</i> , 2019 , 11, 619	3.6	11
28	Forecasting the residential solar energy consumption of the United States. <i>Energy</i> , 2019 , 178, 610-623	7.9	28
27	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	16.2	10
26	Analysis of the Influence Mechanism of CO ₂ Emissions and Verification of the Environmental Kuznets Curve in China. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	11

25	The influence of market reform on the CO2 emission efficiency of China. <i>Journal of Cleaner Production</i> , 2019 , 225, 236-247	10.3	12
24	Estimation of Lorenz curves based on dummy variable regression. <i>Economics Letters</i> , 2019 , 177, 69-75	1.3	4
23	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	10.3	134
22	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	1.6	16
21	A seasonal GM(1,1) model for forecasting the electricity consumption of the primary economic sectors. <i>Energy</i> , 2018 , 154, 522-534	7.9	115
20	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,	4.6	4
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,	4.6	14
18	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	6.4	15
17	Grey forecasting method of quarterly hydropower production in China based on a data grouping approach. <i>Applied Mathematical Modelling</i> , 2017 , 51, 302-316	4.5	70
16	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	7.2	25
15	Forecasting Chinese carbon emissions from fossil energy consumption using non-linear grey multivariable models. <i>Journal of Cleaner Production</i> , 2017 , 142, 600-612	10.3	137
14	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,	4.6	20
13	Testing the trade relationships between China, Singapore, Malaysia and Thailand using grey Lotka-Volterra competition model. <i>Kybernetes</i> , 2016 , 45, 931-945	2	10
12	An improved grey multivariable model for predicting industrial energy consumption in China. <i>Applied Mathematical Modelling</i> , 2016 , 40, 5745-5758	4.5	78
11	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	1.4	33
10	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	1.6	5
9	Optimal modeling and forecasting of the energy consumption and production in China. <i>Energy</i> , 2014 , 77, 623-634	7.9	60
8	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	7.8	70

7	A GM(1,N)-based economic cybernetics model for the high-tech industries in China. <i>Kybernetes</i> , 2014 , 43, 672-685	2	24
6	A genetic algorithm-based grey method for forecasting food demand after snow disasters: an empirical study. <i>Natural Hazards</i> , 2013 , 68, 675-686	3	17
5	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	6.4	50
4	A grey TOPSIS method based on weighted relational coefficient 2013 ,		1
3	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	4.5	71
2	Unbiased Grey Verhulst Model and Its Application. <i>Systems Engineering - Theory & Practice</i> , 2009 , 29, 138-144		35
1	Measurement Methods for Relative Index of Financial Inclusion. <i>Applied Economics Letters</i> , 1-7	1	1