Zheng-xin Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Forecasting Chinese carbon emissions from fossil energy consumption using non-linear grey multivariable models. Journal of Cleaner Production, 2017, 142, 600-612.	9.3	200
2	A seasonal GM(1,1) model for forecasting the electricity consumption of the primary economic sectors. Energy, 2018, 154, 522-534.	8.8	190
3	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.	9.3	180
4	Grey forecasting method of quarterly hydropower production in China based on a data grouping approach. Applied Mathematical Modelling, 2017, 51, 302-316.	4.2	107
5	Evaluation of the provincial competitiveness of the Chinese high-tech industry using an improved TOPSIS method. Expert Systems With Applications, 2014, 41, 2824-2831.	7.6	102
6	An improved grey multivariable model for predicting industrial energy consumption in China. Applied Mathematical Modelling, 2016, 40, 5745-5758.	4.2	92
7	An optimized NGBM(1,1) model for forecasting the qualified discharge rate of industrial wastewater in China. Applied Mathematical Modelling, 2011, 35, 5524-5532.	4.2	90
8	Optimal modeling and forecasting of the energy consumption and production in China. Energy, 2014, 77, 623-634.	8.8	89
9	Forecasting the industrial solar energy consumption using a novel seasonal GM(1,1) model with dynamic seasonal adjustment factors. Energy, 2020, 200, 117460.	8.8	66
10	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.	6.3	64
11	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.	2.6	47
12	Unbiased Grey Verhulst Model and Its Application. Systems Engineering - Theory & Practice, 2009, 29, 138-144.	0.3	46
13	Forecasting the residential solar energy consumption of the United States. Energy, 2019, 178, 610-623.	8.8	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. Applied Soft Computing Journal, 2020, 94, 106475.	7.2	41
15	A non-linear systematic grey model for forecasting the industrial economy-energy-environment system. Technological Forecasting and Social Change, 2021, 167, 120707.	11.6	41
16	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.	2.6	38
17	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.	8.8	37
18	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, 4582.	2.6	29

ZHENG-XIN WANG

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19	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, 236.	2.6	28
20	A GM(1,N)-based economic cybernetics model for the high-tech industries in China. Kybernetes, 2014, 43, 672-685.	2.2	27
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.	6.3	25
22	Forecasting the seasonal natural gas consumption in the US using a gray model with dummy variables. Applied Soft Computing Journal, 2021, 113, 108002.	7.2	25
23	A genetic algorithm-based grey method for forecasting food demand after snow disasters: an empirical study. Natural Hazards, 2013, 68, 675-686.	3.4	23
24	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, 1568.	2.6	22
25	Analysis of the Influence Mechanism of CO2 Emissions and Verification of the Environmental Kuznets Curve in China. International Journal of Environmental Research and Public Health, 2019, 16, 944.	2.6	21
26	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.	16.4	20
27	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.	2.1	19
28	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.	8.8	17
29	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.	5.3	16
30	The influence of market reform on the CO2 emission efficiency of China. Journal of Cleaner Production, 2019, 225, 236-247.	9.3	15
31	Testing the trade relationships between China, Singapore, Malaysia and Thailand using grey Lotka-Volterra competition model. Kybernetes, 2016, 45, 931-945.	2.2	14
32	An Empirical Study on the Key Factors of Intelligent Upgrade of Small and Medium-sized Enterprises in China. Sustainability, 2019, 11, 619.	3.2	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. Technological Forecasting and Social Change, 2021, 171, 120987.	11.6	11
34	A novel grey prediction model based on quantile regression. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105617.	3.3	10
35	Estimation of Lorenz curves based on dummy variable regression. Economics Letters, 2019, 177, 69-75.	1.9	8
36	An improved gray Bernoulli model for estimating the relationship between economic growth and pollution emissions. Environmental Science and Pollution Research, 2020, 27, 25638-25654.	5.3	8

ZHENG-XIN WANG

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37	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.	2.1	5
38	The NLS-Based Nonlinear Grey Multivariate Model for Forecasting Pollutant Emissions in China. International Journal of Environmental Research and Public Health, 2018, 15, 471.	2.6	5
39	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.	2.1	5
40	EVALUATION OF THE BUSINESS ENVIRONMENT OF PARTICIPATING COUNTRIES OF THE BELT AND ROAD INITIATIVE. Technological and Economic Development of Economy, 2020, 26, 1339-1365.	4.6	4
41	Measurement Methods for Relative Index of Financial Inclusion. Applied Economics Letters, 2023, 30, 827-833.	1.8	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