

Nai-ming Xie

List of Publications by Year in descending order

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91
papers

2,507
citations

257450

24
h-index

214800

47
g-index

91
all docs

91
docs citations

91
times ranked

1187
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete grey forecasting model and its optimization. Applied Mathematical Modelling, 2009, 33, 1173-1186.	4.2	386
2	A novel grey forecasting model and its optimization. Applied Mathematical Modelling, 2013, 37, 4399-4406.	4.2	164
3	New progress of Grey System Theory in the new millennium. Grey Systems Theory and Application, 2016, 6, 2-31.	2.1	126
4	Forecasting China's energy demand and self-sufficiency rate by grey forecasting model and Markov model. International Journal of Electrical Power and Energy Systems, 2015, 66, 1-8.	5.5	123
5	On novel grey forecasting model based on non-homogeneous index sequence. Applied Mathematical Modelling, 2013, 37, 5059-5068.	4.2	120
6	The impact on chinese economic growth and energy consumption of the Global Financial Crisis: An input-output analysis. Energy, 2010, 35, 1805-1812.	8.8	107
7	Forecasting CO2 emissions of China's cement industry using a hybrid Verhulst-GM(1,N) model and emissions' technical conversion. Renewable and Sustainable Energy Reviews, 2020, 130, 109945.	16.4	89
8	Optimal solution for novel grey polynomial prediction model. Applied Mathematical Modelling, 2018, 62, 717-727.	4.2	82
9	A novel time-delay multivariate grey model for impact analysis of CO2 emissions from China's transportation sectors. Applied Mathematical Modelling, 2021, 91, 493-507.	4.2	82
10	Flexible job shop scheduling problem with interval grey processing time. Applied Soft Computing Journal, 2018, 70, 513-524.	7.2	67
11	The relation between Chinese economic development and energy consumption in the different periods. Energy Policy, 2010, 38, 5189-5198.	8.8	66
12	On the properties of small sample of GM(1,1) model. Applied Mathematical Modelling, 2009, 33, 1894-1903.	4.2	65
13	A summary on the research of GRA models. Grey Systems Theory and Application, 2013, 3, 7-15.	2.1	63
14	Novel methods on comparing grey numbers. Applied Mathematical Modelling, 2010, 34, 415-423.	4.2	51
15	Data-based structure selection for unified discrete grey prediction model. Expert Systems With Applications, 2019, 136, 264-275.	7.6	44
16	Interval grey number sequence prediction by using non-homogenous exponential discrete grey forecasting model. Journal of Systems Engineering and Electronics, 2015, 26, 96-102.	2.2	43
17	China's regional meteorological disaster loss analysis and evaluation based on grey cluster model. Natural Hazards, 2014, 71, 1067-1089.	3.4	40
18	A nonlinear grey forecasting model with double shape parameters and its application. Applied Mathematics and Computation, 2019, 360, 203-212.	2.2	38

#	ARTICLE	IF	CITATIONS
19	Key indices of the remanufacturing industry in China using a combined method of grey incidence analysis and grey clustering. <i>Journal of Cleaner Production</i> , 2017, 168, 1348-1357.	9.3	35
20	Exploring Grey Systems Theory-Based Methods and Applications in Sustainability Studies: A Systematic Review Approach. <i>Sustainability</i> , 2020, 12, 4437.	3.2	34
21	Understanding cumulative sum operator in grey prediction model with integral matching. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105076.	3.3	31
22	Prediction model of interval grey number based on DGM (1, 1). <i>Journal of Systems Engineering and Electronics</i> , 2010, 21, 598-603.	2.2	30
23	Optimal pricing for a multi-echelon closed loop supply chain with different power structures and product dual differences. <i>Journal of Cleaner Production</i> , 2020, 257, 120281.	9.3	30
24	Grey cluster evaluation models based on mixed triangular whitenization weight functions. <i>Grey Systems Theory and Application</i> , 2015, 5, 410-418.	2.1	28
25	Four basic models of GM(1, 1) and their suitable sequences. <i>Grey Systems Theory and Application</i> , 2015, 5, 141-156.	2.1	28
26	Measurement of shock effect following change of one-child policy based on grey forecasting approach. <i>Kybernetes</i> , 2018, 47, 559-586.	2.2	26
27	Explanations about grey information and framework of grey system modeling. <i>Grey Systems Theory and Application</i> , 2017, 7, 179-193.	2.1	24
28	On unified framework for discrete-time grey models: Extensions and applications. <i>ISA Transactions</i> , 2020, 107, 1-11.	5.7	23
29	Interval grey numbers based multi-attribute decision making method for supplier selection. <i>Kybernetes</i> , 2014, 43, 1064-1078.	2.2	19
30	Hybrid genetic algorithm based on bin packing strategy for the unrelated parallel workgroup scheduling problem. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 957-969.	7.3	19
31	New axiomatic approach to the concept of grey information. <i>Grey Systems Theory and Application</i> , 2018, 8, 199-209.	2.1	18
32	Coordination and competition in two-echelon supply chain using grey revenue-sharing contracts. <i>Grey Systems Theory and Application</i> , 2020, ahead-of-print, .	2.1	17
33	Pricing and collection decisions of a closed-loop supply chain with fuzzy demand. <i>International Journal of Production Economics</i> , 2022, 245, 108409.	8.9	17
34	Forecasting energy consumption in China following instigation of an energy-saving policy. <i>Natural Hazards</i> , 2014, 74, 639-659.	3.4	16
35	Interval grey number based project scheduling model and algorithm. <i>Grey Systems Theory and Application</i> , 2018, 8, 100-109.	2.1	16
36	Exploring the Philosophical Paradigm of Grey Systems Theory as a Postmodern Theory. <i>Foundations of Science</i> , 2020, 25, 905-925.	0.7	16

#	ARTICLE	IF	CITATIONS
37	On unified framework for continuous-time grey models: An integral matching perspective. <i>Applied Mathematical Modelling</i> , 2022, 101, 432-452.	4.2	16
38	A flexible grey Fourier model based on integral matching for forecasting seasonal PM2.5 time series. <i>Chaos, Solitons and Fractals</i> , 2022, 162, 112417.	5.1	16
39	Research on the evaluation of tourism development potential of tea intangible cultural heritage based on grey clustering. <i>Grey Systems Theory and Application</i> , 2019, 9, 295-304.	2.1	15
40	Parameter estimation for grey system models: A nonlinear least squares perspective. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105653.	3.3	14
41	A hybrid ACS-VTM algorithm for the vehicle routing problem with simultaneous delivery & pickup and real-time traffic condition. <i>Computers and Industrial Engineering</i> , 2021, 162, 107747.	6.3	14
42	Optimal position of supply chain delivery window with risk-averse suppliers: A CVaR optimization approach. <i>International Journal of Production Economics</i> , 2021, 232, 107989.	8.9	13
43	Uncertainty and grey data analytics. <i>Marine Economics and Management</i> , 2019, 2, 73-86.	1.4	12
44	Ranking grey numbers based on dominance grey degrees. <i>Journal of Systems Engineering and Electronics</i> , 2014, 25, 618-626.	2.2	11
45	Research on safety evaluation of civil aircraft based on the grey clustering model. <i>Grey Systems Theory and Application</i> , 2018, 8, 110-120.	2.1	11
46	Exploring the Philosophical Foundations of Grey Systems Theory: Subjective Processes, Information Extraction and Knowledge Formation. <i>Foundations of Science</i> , 2021, 26, 371-404.	0.7	11
47	Grey clustering of the variations in the back-to-front airplane boarding method considering COVID-19 flying restrictions. <i>Grey Systems Theory and Application</i> , 2022, 12, 25-59.	2.1	11
48	Integrated cross-supplier order and logistic scheduling in cloud manufacturing. <i>International Journal of Production Research</i> , 2022, 60, 1633-1649.	7.5	11
49	Explanation of terms of Grey models for decision-making. <i>Grey Systems Theory and Application</i> , 2018, 8, 382-387.	2.1	10
50	Two-dimensional packing algorithm for autoclave molding scheduling of aeronautical composite materials production. <i>Computers and Industrial Engineering</i> , 2020, 146, 106599.	6.3	10
51	Explanation of terms of sequence operators and grey data mining. <i>Grey Systems Theory and Application</i> , 2016, 6, 442-447.	2.1	9
52	Estimating a civil aircraft's development cost with a GM(1, N) model and an MLP neural network. <i>Grey Systems Theory and Application</i> , 2017, 7, 2-18.	2.1	9
53	Uncertainty representation and information measurement of grey numbers. <i>Grey Systems Theory and Application</i> , 2020, 10, 495-512.	2.1	9
54	Expansion modelling of discrete grey model based on multi-factor information aggregation. <i>Journal of Systems Engineering and Electronics</i> , 2014, 25, 833-839.	2.2	8

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55	Estimating civil aircraft's research and manufacture cost by using grey system model and neural network algorithm. <i>Grey Systems Theory and Application</i> , 2015, 5, 89-104.	2.1	8
56	Evaluation of provincial integration degree of "internet + industry" based on matrix grey relational analysis. <i>Grey Systems Theory and Application</i> , 2019, 9, 31-44.	2.1	8
57	On unified framework for nonlinear grey system models: An integro-differential equation perspective. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 108, 106250.	3.3	8
58	Flexible flow shop scheduling with interval grey processing time. <i>Grey Systems Theory and Application</i> , 2021, 11, 779-795.	2.1	7
59	Prediction of China's energy consumption structure. <i>Kybernetes</i> , 2012, 41, 559-567.	2.2	6
60	Forecasting annual foreign tourist arrivals to China by incorporating firefly algorithm into fractional non-homogenous discrete Grey model. <i>Kybernetes</i> , 2021, ahead-of-print, .	2.2	6
61	Day surgery appointment scheduling with patient preferences and stochastic operation duration. <i>Technology and Health Care</i> , 2020, 29, 1-12.	1.2	6
62	Predicting the trend of infectious diseases using grey self-memory system model: a case study of the incidence of tuberculosis. <i>Public Health</i> , 2021, 201, 108-114.	2.9	6
63	On the new model system and framework of grey system theory. , 2015, , .		5
64	Single workgroup scheduling problem with variable processing personnel. <i>Central European Journal of Operations Research</i> , 2020, 28, 671-684.	1.8	5
65	Integral matching-based nonlinear grey Bernoulli model for forecasting the coal consumption in China. <i>Soft Computing</i> , 2021, 25, 5209-5223.	3.6	5
66	IN-GM(0, N) cost forecasting model of commercial aircraft based on interval grey numbers. <i>Kybernetes</i> , 2012, 41, 886-896.	2.2	4
67	Difference-ratio-based NDGM interpolation forecasting algorithm and its application. <i>Grey Systems Theory and Application</i> , 2012, 2, 70-80.	2.1	4
68	Predicting the Population Growth and Structure of China Based on Grey Fractional-Order Models. <i>Journal of Mathematics</i> , 2021, 2021, 1-11.	1.0	4
69	Grey-based approach for estimating Weibull model and its application. <i>Communications in Statistics - Theory and Methods</i> , 2023, 52, 7601-7617.	1.0	4
70	Research on the multiple and parallel properties of several grey relational models. , 2007, , .		3
71	On grey geometrical relational model and its properties. , 2008, , .		3
72	A new approach to the degree of greyness. <i>Grey Systems Theory and Application</i> , 2020, 11, 241-252.	2.1	3

#	ARTICLE	IF	CITATIONS
73	Single batch machine scheduling with dual setup times for autoclave molding manufacturing. Computers and Operations Research, 2021, 133, 105381.	4.0	3
74	Parameter estimation for grey system models: gradient matching versus integral matching. Grey Systems Theory and Application, 2023, 13, 125-140.	2.1	3
75	A method to construct a new type of degree of grey incidence. , 2007, , .		2
76	Multi-variable grey dynamic forecasting model based on complex network. , 2009, , .		2
77	Grey cluster model based approach for selecting international cooperation key-technology projects. Grey Systems Theory and Application, 2014, 4, 463-472.	2.1	2
78	The Discrete Grey Prediction Model Based on Optimized Initial Value. Understanding Complex Systems, 2010, , 385-393.	0.6	2
79	Study on parameters characteristics of NGM(1,1,k) prediction model with multiplication transformation. , 2011, , .		1
80	Cost prediction model of commercial aircraft based on grey incidence weight. , 2011, , .		1
81	Novel DGM model of systematic main variable trend forecasting based on interval grey number sequence. , 2011, , .		1
82	Civil Aircraft Cost Drive Parameters Selecting Method Based on Grey Clustering Model. , 2015, , .		1
83	Grey linear space based grey project scheduling. , 2017, , .		1
84	A study on choosing the sample data of grey forecast model. , 2007, , .		0
85	Progress assessment on energy-saving goal achieving in”11th Five-Year Plan” period and analysis of energy-saving situation. , 2009, , .		0
86	Study on the weakening buffer operator based on the interpolatory Function. , 2010, , .		0
87	A grey multi-stage dynamic multiple attribute decision making method. , 2011, , .		0
88	Difference-ratio-based NDGM interpolation forecasting algorithm and its application. , 2011, , .		0
89	Combined model of GM (0, N) and neural network algorithm for civil aircraft cost estimation. , 2014, , .		0
90	Online single batch machine scheduling with linear setup times and incompatible jobs for autoclave molding manufacturing. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	0

#	ARTICLE	IF	CITATIONS
91	A self-adaptive grey forecasting model and its application. Journal of Systems Engineering and Electronics, 2022, 33, 665-673.	2.2	0