

Sifeng Liu

List of Publications by Citations

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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.

122
papers

2,968
citations

28
h-index

50
g-index

128
ext. papers

3,768
ext. citations

3.9
avg, IF

6.06
L-index

#	Paper	IF	Citations
122	Grey system model with the fractional order accumulation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 1775-1785	3.7	283
121	Comparison of China's primary energy consumption forecasting by using ARIMA (the autoregressive integrated moving average) model and GM(1,1) model. <i>Energy</i> , 2016 , 100, 384-390	7.9	200
120	Modelling and forecasting CO 2 emissions in the BRICS (Brazil, Russia, India, China, and South Africa) countries using a novel multi-variable grey model. <i>Energy</i> , 2015 , 79, 489-495	7.9	141
119	A brief introduction to grey systems theory. <i>Grey Systems Theory and Application</i> , 2012 , 2, 89-104	1.6	139
118	Grey Data Analysis. <i>Computational Risk Management</i> , 2017 ,	0.4	108
117	New progress of Grey System Theory in the new millennium. <i>Grey Systems Theory and Application</i> , 2016 , 6, 2-31	1.6	97
116	The effect of sample size on the grey system model. <i>Applied Mathematical Modelling</i> , 2013 , 37, 6577-6583	3.5	89
115	The impact on chinese economic growth and energy consumption of the Global Financial Crisis: An input-output analysis. <i>Energy</i> , 2010 , 35, 1805-1812	7.9	81
114	An approach to increase prediction precision of GM(1,1) model based on optimization of the initial condition. <i>Expert Systems With Applications</i> , 2010 , 37, 5640-5644	7.8	75
113	Grey double exponential smoothing model and its application on pig price forecasting in China. <i>Applied Soft Computing Journal</i> , 2016 , 39, 117-123	7.5	62
112	Development of an optimization method for the GM(1,N) model. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 55, 353-362	7.2	57
111	General grey numbers and their operations. <i>Grey Systems Theory and Application</i> , 2012 , 2, 341-349	1.6	57
110	Properties of the GM(1,1) with fractional order accumulation. <i>Applied Mathematics and Computation</i> , 2015 , 252, 287-293	2.7	52
109	Predicting the research output/growth of selected countries: application of Even GM (1, 1) and NDGM models. <i>Scientometrics</i> , 2018 , 115, 395-413	3	52
108	The relation between Chinese economic development and energy consumption in the different periods. <i>Energy Policy</i> , 2010 , 38, 5189-5198	7.2	50
107	A self-adaptive intelligence gray prediction model with the optimal fractional order accumulating operator and its application. <i>Mathematical Methods in the Applied Sciences</i> , 2017 , 40, 7843-7857	2.3	46
106	On the properties of small sample of GM(1,1) model. <i>Applied Mathematical Modelling</i> , 2009 , 33, 1894-1903	3.5	46

105	Research on energy-saving effect of technological progress based on Cobb-Douglas production function. <i>Energy Policy</i> , 2009 , 37, 2842-2846	7.2	45
104	A novel multi-variable grey forecasting model and its application in forecasting the amount of motor vehicles in Beijing. <i>Computers and Industrial Engineering</i> , 2016 , 101, 479-489	6.4	42
103	Using fractional order accumulation to reduce errors from inverse accumulated generating operator of grey model. <i>Soft Computing</i> , 2015 , 19, 483-488	3.5	41
102	Grey Systems. <i>Understanding Complex Systems</i> , 2011 ,	0.4	40
101	Evaluation of outpatient satisfaction and service quality of Pakistani healthcare projects. <i>Grey Systems Theory and Application</i> , 2018 , 8, 462-480	1.6	39
100	Patients' satisfaction and public and private sectors' health care service quality in Pakistan: Application of grey decision analysis approaches. <i>International Journal of Health Planning and Management</i> , 2019 , 34, e168-e182	2.2	39
99	A multi-variable grey model with a self-memory component and its application on engineering prediction. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 42, 82-93	7.2	37
98	. <i>Journal of Systems Engineering and Electronics</i> , 2015 , 26, 96-102	1.3	36
97	A summary on the research of GRA models. <i>Grey Systems Theory and Application</i> , 2013 , 3, 7-15	1.6	35
96	Research on the energy-saving effect of energy policies in China: 1982-2006. <i>Energy Policy</i> , 2009 , 37, 2475-2480	7.2	35
95	Grey Lotka-Volterra model and its application. <i>Technological Forecasting and Social Change</i> , 2012 , 79, 1720-1730	9.5	31
94	. <i>IEEE Access</i> , 2019 , 7, 60885-60896	3.5	26
93	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	10.3	25
92	Using gray model with fractional order accumulation to predict gas emission. <i>Natural Hazards</i> , 2014 , 71, 2231-2236	3	25
91	Using grey Holt-Winters model to predict the air quality index for cities in China. <i>Natural Hazards</i> , 2017 , 88, 1003-1012	3	25
90	A novel method for solving linear programming with grey parameters. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 36, 161-172	1.6	25
89	An analysis on investment policy effect of China's photovoltaic industry based on feedback model. <i>Applied Energy</i> , 2014 , 135, 423-428	10.7	24
88	A Gray Model With a Time Varying Weighted Generating Operator. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 427-433	7.3	23

87	A Critical Review: Shape Optimization of Welded Plate Heat Exchangers based on Grey Correlation Theory. <i>Applied Thermal Engineering</i> , 2018 , 144, 593-599	5.8	23
86	Evaluating remanufacturing industry of China using an improved grey fixed weight clustering method-a case of Jiangsu Province. <i>Journal of Cleaner Production</i> , 2017 , 142, 2006-2020	10.3	22
85	Forecast of biofuel production and consumption in top CO2 emitting countries using a novel grey model. <i>Journal of Cleaner Production</i> , 2020 , 276, 123997	10.3	21
84	Multi-variable weakening buffer operator and its application. <i>Information Sciences</i> , 2016 , 339, 98-107	7.7	21
83	Exploring Grey Systems Theory-Based Methods and Applications in Analyzing Socio-Economic Systems. <i>Sustainability</i> , 2019 , 11, 4192	3.6	20
82	Schedule risk analysis for new-product development: The GERT method extended by a characteristic function. <i>Reliability Engineering and System Safety</i> , 2017 , 167, 464-473	6.3	20
81	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2006 , 36, 53-61		20
80	Suitable computerized maintenance management system selection using grey group TOPSIS and fuzzy group VIKOR: A case study. <i>Decision Science Letters</i> , 2018 , 341-358	1.3	19
79	Explanation of terms of grey incidence analysis models. <i>Grey Systems Theory and Application</i> , 2017 , 7, 136-142	1.6	18
78	Systems Evaluation through New Grey Relational Analysis Approach: An Application on Thermal Conductivity Petrophysical Parameters Relationships. <i>Processes</i> , 2019 , 7, 348	2.9	18
77	DISTINGUISHING COEFFICIENT DRIVEN SENSITIVITY ANALYSIS OF GRA MODEL FOR INTELLIGENT DECISIONS: APPLICATION IN PROJECT MANAGEMENT. <i>Technological and Economic Development of Economy</i> , 2020 , 26, 621-641	4.7	18
76	Grey Absolute Decision Analysis (GADA) Method for Multiple Criteria Group Decision-Making Under Uncertainty. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1073-1090	3.6	18
75	Grey-fuzzy solution for multi-objective linear programming with interval coefficients. <i>Grey Systems Theory and Application</i> , 2018 , 8, 312-327	1.6	18
74	Exploring Grey Systems Theory-Based Methods and Applications in Sustainability Studies: A Systematic Review Approach. <i>Sustainability</i> , 2020 , 12, 4437	3.6	17
73	Reliability modeling and optimal random preventive maintenance policy for parallel systems with damage self-healing. <i>Computers and Industrial Engineering</i> , 2020 , 142, 106359	6.4	17
72	A stochastic network model for ordering analysis in multi-stage supply chain systems. <i>Simulation Modelling Practice and Theory</i> , 2012 , 22, 92-108	3.9	17
71	Dynamic grey target decision making method with grey numbers based on existing state and future development trend of alternatives. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 2159-2168	1.6	17
70	Modeling ageing effects for multi-state systems with multiple components subject to competing and dependent failure processes. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106890	6.3	13

69	Covered solution for a grey linear program based on a general formula for the inverse of a grey matrix. <i>Grey Systems Theory and Application</i> , 2014 , 4, 72-94	1.6	13
68	2017 ,		13
67	Optimal periodic maintenance policies for a parallel redundant system with component dependencies. <i>Computers and Industrial Engineering</i> , 2019 , 138, 106133	6.4	12
66	Reliability variation of multi-state components with inertial effect of deteriorating output performances. <i>Reliability Engineering and System Safety</i> , 2019 , 186, 176-185	6.3	12
65	Exploring the Human Cognitive Capacity in Understanding Systems: A Grey Systems Theory Perspective. <i>Foundations of Science</i> , 2020 , 25, 803-825	0.8	12
64	Reliability modelling for multi-component systems subject to stochastic deterioration and generalized cumulative shock damages. <i>Reliability Engineering and System Safety</i> , 2021 , 205, 107260	6.3	12
63	On uncertain systems and uncertain models. <i>Kybernetes</i> , 2012 , 41, 548-558	2	11
62	Exploring the Philosophical Paradigm of Grey Systems Theory as a Postmodern Theory. <i>Foundations of Science</i> , 2020 , 25, 905-925	0.8	10
61	Forecasting key indicators of China's inbound and outbound tourism: optimisticpessimistic method. <i>Grey Systems Theory and Application</i> , 2020 , 11, 265-287	1.6	10
60	A prediction method for plasma concentration by using a nonlinear grey Bernoulli combined model based on a self-memory algorithm. <i>Computers in Biology and Medicine</i> , 2019 , 105, 81-91	7	10
59	Explanation of terms of grey forecasting models. <i>Grey Systems Theory and Application</i> , 2017 , 7, 123-128	1.6	9
58	A multi-stage imperfect maintenance strategy for multi-state systems with variable user demands. <i>Computers and Industrial Engineering</i> , 2020 , 145, 106508	6.4	9
57	A summary of The progress in grey system research 2013 ,		9
56	A new method to mitigate data fluctuations for time series prediction. <i>Applied Mathematical Modelling</i> , 2019 , 65, 390-407	4.5	9
55	Comparative analysis of properties of weakening buffer operators in time series prediction models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 68, 257-285	3.7	9
54	Reliability Assessment for Uncertain Multi-state Systems: An Extension of Fuzzy Universal Generating Function. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 945-953	3.6	9
53	Using the fractional order method to generalize strengthening buffer operator and weakening buffer operator. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018 , 5, 1074-1078	7	8
52	Explanation of terms of grey numbers and its operations. <i>Grey Systems Theory and Application</i> , 2016 , 6, 436-441	1.6	8

51	Using the GM(1,1) model cluster to forecast global oil consumption. <i>Grey Systems Theory and Application</i> , 2017 , 7, 286-296	1.6	8
50	Study of a discrete grey forecasting model based on the quality cost characteristic curve. <i>Grey Systems Theory and Application</i> , 2017 , 7, 376-384	1.6	8
49	Grey power models based on optimization of initial condition and model parameters. <i>Grey Systems Theory and Application</i> , 2014 , 4, 370-382	1.6	8
48	Balancing reliability and maintenance cost rate of multi-state components with fault interval omission. <i>Eksploracja I Niezawodnosc</i> , 2018 , 21, 37-45	3.5	8
47	A novel grey multi-criteria three-way decisions model and its application. <i>Computers and Industrial Engineering</i> , 2021 , 158, 107405	6.4	8
46	Modeling ageing effects in the context of continuous degradation and random shock. <i>Computers and Industrial Engineering</i> , 2020 , 145, 106539	6.4	7
45	Reliability Improvement Allocation Method Considering Common Cause Failures. <i>IEEE Transactions on Reliability</i> , 2020 , 69, 571-580	4.6	7
44	2016 ,		7
43	Grey relational evaluation of impact and control of malaria in Sub-Saharan Africa. <i>Grey Systems Theory and Application</i> , 2019 , 9, 415-431	1.6	7
42	Uncertainty and grey data analytics. <i>Marine Economics and Management</i> , 2019 , 2, 73-86	1.5	7
41	A comparative analysis of grey ranking approaches. <i>Grey Systems Theory and Application</i> , 2019 , 9, 472-487	1.6	7
40	Exploring the Philosophical Foundations of Grey Systems Theory: Subjective Processes, Information Extraction and Knowledge Formation. <i>Foundations of Science</i> , 2021 , 26, 371-404	0.8	7
39	Optimal due date quoting for a risk-averse decision-maker under CVaR. <i>International Journal of Production Research</i> , 2018 , 56, 1934-1959	7.8	7
38	An agent-based clustering framework for reliable satellite networks. <i>Reliability Engineering and System Safety</i> , 2021 , 212, 107630	6.3	7
37	An optimal delay routing algorithm considering delay variation in the LEO satellite communication network. <i>Computer Networks</i> , 2020 , 173, 107166	5.4	6
36	Time-based replacement policies for a fault tolerant system subject to degradation and two types of shocks. <i>Quality and Reliability Engineering International</i> , 2020 , 36, 2338-2350	2.6	6
35	Advance in grey incidence analysis modelling 2011 ,		6
34	Two-stage ordering decision for a short-life-cycle product. <i>Journal of Systems Science and Systems Engineering</i> , 2006 , 15, 340-358	1.2	6

33	Explanation of terms of sequence operators and grey data mining. <i>Grey Systems Theory and Application</i> , 2016 , 6, 442-447	1.6	6
32	Multi-stage group risk decision making with grey numbers based on grey target and prospect theory. <i>Grey Systems Theory and Application</i> , 2016 , 6, 64-79	1.6	6
31	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	9.3	6
30	Explanation of terms of Grey models for decision-making. <i>Grey Systems Theory and Application</i> , 2018 , 8, 382-387	1.6	6
29	Algorithm rules of interval grey numbers based on different kernel and the degree of greyness of grey numbers. <i>Grey Systems Theory and Application</i> , 2017 , 7, 168-178	1.6	5
28	Grey modeling for thermal spray processing parameter analysis. <i>Grey Systems Theory and Application</i> , 2020 , 10, 265-279	1.6	5
27	An investigation into the relationship between China's economic development and carbon dioxide emissions. <i>Climate and Development</i> , 2017 , 9, 66-79	4.4	4
26	On modeling mechanisms and applicable ranges of grey incidence analysis models. <i>Grey Systems Theory and Application</i> , 2018 , 8, 448-461	1.6	4
25	A model based on hidden graphic evaluation and review technique network to evaluate reliability and lifetime of multi-state systems. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2019 , 233, 369-378	0.8	4
24	Random network models and sensitivity algorithms for the analysis of ordering time and inventory state in multi-stage supply chains. <i>Computers and Industrial Engineering</i> , 2014 , 70, 168-175	6.4	4
23	Application of a novel grey self-memory coupling model to forecast the incidence rates of two notifiable diseases in China: dysentery and gonorrhoea. <i>PLoS ONE</i> , 2014 , 9, e115664	3.7	4
22	A novel approach to three-way conflict analysis and resolution with Pythagorean fuzzy information. <i>Information Sciences</i> , 2021 , 584, 65-65	7.7	4
21	Scheduling optimal replacement policies for a stochastically deteriorating system subject to two types of shocks. <i>ISA Transactions</i> , 2021 , 112, 292-301	5.5	4
20	A grey NGM(1,1, k) self-memory coupling prediction model for energy consumption prediction. <i>Scientific World Journal, The</i> , 2014 , 2014, 301032	2.2	3
19	Grey linear programming: a survey on solving approaches and applications. <i>Grey Systems Theory and Application</i> , 2020 , 11, 110-135	1.6	3
18	Reliability Variation and Optimal Age Replacement Schedule of Compensated Discrete Multi-state Systems 2019 ,		2
17	Control and optimization of quality cost based on discrete grey forecasting model 2017 ,		2
16	A greyness reduction framework for prediction of grey heterogeneous data. <i>Soft Computing</i> , 2020 , 24, 17913-17929	3.5	2

15	Reliability Allocation for Series-Parallel Systems subject to Potential Propagated Failures. <i>Quality and Reliability Engineering International</i> , 2020 , 36, 565-576	2.6	2
14	Explanation of terms of concepts and fundamental principles of grey systems. <i>Grey Systems Theory and Application</i> , 2016 , 6, 429-435	1.6	2
13	A demand-based framework for resilience assessment of multistate networks under disruptions. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108423	6.3	2
12	Dynamic multi-attribute group decision making method based on 4-dimensional matrix grey target model. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 1043-1053	1.6	1
11	2015 ,		1
10	Cost prediction model of commercial aircraft based on grey incidence weight 2011 ,		1
9	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	4	1
8	Study on mechanism and filter efficacy of AGO/IAGO in the frequency domain. <i>Grey Systems Theory and Application</i> , 2020 , 11, 1-21	1.6	1
7	A novel GREY-ASMAA model for reliability growth evaluation in the large civil aircraft test flight phase. <i>Grey Systems Theory and Application</i> , 2019 , 10, 46-55	1.6	1
6	Forecasting cocoa production of six major producers through ARIMA and grey models. <i>Grey Systems Theory and Application</i> , 2021 , 11, 434-462	1.6	1
5	Micro-macro dynamics of the online opinion evolution: An asynchronous network model approach. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e5981	1.4	1
4	Optimal Age Replacement Policies with Multiple Missions for Multi-state Systems. <i>Computers and Industrial Engineering</i> , 2021 , 163, 107777	6.4	0
3	Resilient communication model for satellite networks using clustering technique. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107850	6.3	0
2	A reliable framework for satellite networks achieving energy requirements. <i>Reliability Engineering and System Safety</i> , 2021 , 216, 107939	6.3	0
1	PS-G-GERT effectiveness evaluation model of link-based GEO satellite communication constellation under poor information background. <i>China Communications</i> , 2022 , 1-21	3	