

# Ying-jie Yang

## 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.

136  
papers

1,918  
citations

22  
h-index

39  
g-index

171  
ext. papers

2,368  
ext. citations

3.6  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
136	A brief introduction to grey systems theory. <i>Grey Systems Theory and Application</i> , <b>2012</b> , 2, 89-104	1.6	139
135	Grey Data Analysis. <i>Computational Risk Management</i> , <b>2017</b> ,	0.4	108
134	Using a novel multi-variable grey model to forecast the electricity consumption of Shandong Province in China. <i>Energy</i> , <b>2018</b> , 157, 327-335	7.9	105
133	Forecasting China's energy demand and self-sufficiency rate by grey forecasting model and Markov model. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 66, 1-8	5.1	99
132	New progress of Grey System Theory in the new millennium. <i>Grey Systems Theory and Application</i> , <b>2016</b> , 6, 2-31	1.6	97
131	On novel grey forecasting model based on non-homogeneous index sequence. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 5059-5068	4.5	88
130	Prediction of air quality indicators for the Beijing-Tianjin-Hebei region. <i>Journal of Cleaner Production</i> , <b>2018</b> , 196, 682-687	10.3	68
129	Consistency of 2D and 3D distances of intuitionistic fuzzy sets. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 8665-8670	7.8	65
128	Grey double exponential smoothing model and its application on pig price forecasting in China. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 39, 117-123	7.5	62
127	Grey sets and greyness. <i>Information Sciences</i> , <b>2012</b> , 185, 249-264	7.7	58
126	General grey numbers and their operations. <i>Grey Systems Theory and Application</i> , <b>2012</b> , 2, 341-349	1.6	57
125	The optimal group consensus models for 2-tuple linguistic preference relations. <i>Knowledge-Based Systems</i> , <b>2013</b> , 37, 427-437	7.3	48
124	Intuitionistic fuzzy sets: Spherical representation and distances. <i>International Journal of Intelligent Systems</i> , <b>2009</b> , 24, 399-420	8.4	41
123	A new extension of fuzzy sets using rough sets: R-fuzzy sets. <i>Information Sciences</i> , <b>2010</b> , 180, 354-365	7.7	40
122	A multi-variable grey model with a self-memory component and its application on engineering prediction. <i>Engineering Applications of Artificial Intelligence</i> , <b>2015</b> , 42, 82-93	7.2	37
121	A summary on the research of GRA models. <i>Grey Systems Theory and Application</i> , <b>2013</b> , 3, 7-15	1.6	35
120	A novel energy consumption forecasting model combining an optimized DGM (1, 1) model with interval grey numbers. <i>Journal of Cleaner Production</i> , <b>2019</b> , 229, 256-267	10.3	34

119	Reliability of operations of grey numbers using kernels. <i>Grey Systems Theory and Application</i> , <b>2011</b> , 1, 57-71	1.6	27
118	Using grey Holt-Winters model to predict the air quality index for cities in China. <i>Natural Hazards</i> , <b>2017</b> , 88, 1003-1012	3	25
117	An analysis on investment policy effect of China's photovoltaic industry based on feedback model. <i>Applied Energy</i> , <b>2014</b> , 135, 423-428	10.7	24
116	A Gray Model With a Time Varying Weighted Generating Operator. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 46, 427-433	7.3	23
115	Data-based structure selection for unified discrete grey prediction model. <i>Expert Systems With Applications</i> , <b>2019</b> , 136, 264-275	7.8	23
114	Network moving target defense technique based on collaborative mutation. <i>Computers and Security</i> , <b>2017</b> , 70, 51-71	4.9	21
113	Uncertainty representation of grey numbers and grey sets. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 1508-17	10.2	21
112	Multi-variable weakening buffer operator and its application. <i>Information Sciences</i> , <b>2016</b> , 339, 98-107	7.7	21
111	THE SPHERICAL DISTANCE FOR INTUITIONISTIC FUZZY SETS AND ITS APPLICATION IN DECISION ANALYSIS. <i>Technological and Economic Development of Economy</i> , <b>2017</b> , 22, 393-415	4.7	19
110	A novel multi-information fusion grey model and its application in wear trend prediction of wind turbines. <i>Applied Mathematical Modelling</i> , <b>2019</b> , 71, 543-557	4.5	19
109	Explanation of terms of grey incidence analysis models. <i>Grey Systems Theory and Application</i> , <b>2017</b> , 7, 136-142	1.6	18
108	Grey cluster evaluation models based on mixed triangular whitenization weight functions. <i>Grey Systems Theory and Application</i> , <b>2015</b> , 5, 410-418	1.6	17
107	Four basic models of GM(1, 1) and their suitable sequences. <i>Grey Systems Theory and Application</i> , <b>2015</b> , 5, 141-156	1.6	17
106	The optimal group consensus deviation measure for multiplicative preference relations. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 11548-11555	7.8	17
105	Interval-valued fuzzy decision trees with optimal neighbourhood perimeter. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 24, 851-866	7.5	16
104	Extended grey numbers and their operations <b>2007</b> ,		15
103	A novel diagnostic and prognostic framework for incipient fault detection and remaining service life prediction with application to industrial rotating machines. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 82, 105564	7.5	14
102	Particle swarm optimization for SNP haplotype reconstruction problem. <i>Applied Mathematics and Computation</i> , <b>2008</b> , 196, 266-272	2.7	14

101	Evaluation of poverty-stricken families in rural areas using a novel case-based reasoning method for probabilistic linguistic term sets. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 147, 106658	6.4	12
100	Forecasting the multifactorial interval grey number sequences using grey relational model and GM (1, N) model based on effective information transformation. <i>Soft Computing</i> , <b>2020</b> , 24, 5255-5269	3.5	11
99	Generalisation of roughness bounds in rough set operations. <i>International Journal of Approximate Reasoning</i> , <b>2008</b> , 48, 868-878	3.6	10
98	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> , <b>2019</b> , 105, 81-91	7	10
97	Hybrid genetic algorithm based on bin packing strategy for the unrelated parallel workgroup scheduling problem. <i>Journal of Intelligent Manufacturing</i> , <b>2021</b> , 32, 957-969	6.7	10
96	Explanation of terms of grey forecasting models. <i>Grey Systems Theory and Application</i> , <b>2017</b> , 7, 123-128	1.6	9
95	Canonical variate residuals-based contribution map for slowly evolving faults. <i>Journal of Process Control</i> , <b>2019</b> , 76, 87-97	3.9	9
94	Quantification of R-fuzzy sets. <i>Expert Systems With Applications</i> , <b>2016</b> , 55, 374-387	7.8	9
93	A summary of The progress in grey system research <b>2013</b> ,		9
92	A new method to mitigate data fluctuations for time series prediction. <i>Applied Mathematical Modelling</i> , <b>2019</b> , 65, 390-407	4.5	9
91	Comparative analysis of properties of weakening buffer operators in time series prediction models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 68, 257-285	3.7	9
90	Using the fractional order method to generalize strengthening buffer operator and weakening buffer operator. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2018</b> , 5, 1074-1078	7	8
89	Explanation of terms of grey numbers and its operations. <i>Grey Systems Theory and Application</i> , <b>2016</b> , 6, 436-441	1.6	8
88	A Model to Determine OWA Weights and Its Application in Energy Technology Evaluation. <i>International Journal of Intelligent Systems</i> , <b>2015</b> , 30, 798-806	8.4	8
87	Grey System: Thinking, Methods, and Models with Applications <b>2015</b> , 153-224		7
86	An optimization model of the acceptable consensus and its economic significance. <i>Kybernetes</i> , <b>2016</b> , 45, 181-206	2	7
85	Explanation of terms of grey clustering evaluation models. <i>Grey Systems Theory and Application</i> , <b>2017</b> , 7, 129-135	1.6	7
84	<b>2014</b> ,		7

83	Integrating theory of constraints and particle swarm optimization in order planning and scheduling for machine tool production. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2011</b> , 57, 285-296	3.3	7
82	<b>2016</b> ,		7
81	Uncertainty and grey data analytics. <i>Marine Economics and Management</i> , <b>2019</b> , 2, 73-86	1.5	7
80	An uncertain programming model for preventive maintenance scheduling. <i>Grey Systems Theory and Application</i> , <b>2017</b> , 7, 111-122	1.6	6
79	Security risk situation quantification method based on threat prediction for multimedia communication network. <i>Multimedia Tools and Applications</i> , <b>2018</b> , 77, 21693-21723	2.5	6
78	On the contribution of defense innovation to China's economic growth. <i>Defence and Peace Economics</i> , <b>2016</b> , 27, 820-837	1.3	6
77	An Intuitionistic Fuzzy Stochastic Decision-Making Method Based on Case-Based Reasoning and Prospect Theory. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-13	1.1	6
76	Advance in grey incidence analysis modelling <b>2011</b> ,		6
75	Global roughness of approximation and boundary rough sets <b>2008</b> ,		6
74	A strategic decision support tool for indicating airport sustainability. <i>Environmental Modelling and Software</i> , <b>2001</b> , 16, 297-298	5.2	6
73	Explanation of terms of sequence operators and grey data mining. <i>Grey Systems Theory and Application</i> , <b>2016</b> , 6, 442-447	1.6	6
72	The Behavior Mechanism of the Urban Joint Distribution Alliance under Government Supervision from the Perspective of Sustainable Development. <i>Sustainability</i> , <b>2019</b> , 11, 6232	3.6	6
71	Grey strategies interaction model. <i>Journal of Strategy and Management</i> , <b>2018</b> , ahead-of-print,	2.4	6
70	Explanation of terms of Grey models for decision-making. <i>Grey Systems Theory and Application</i> , <b>2018</b> , 8, 382-387	1.6	6
69	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	5
68	Improving anytime behavior for traffic signal control optimization based on NSGA-II and local search <b>2016</b> ,		5
67	A DoS attack situation assessment method based on QoS <b>2011</b> ,		5
66	Green-Oriented Offloading and Resource Allocation by Reinforcement Learning in MEC <b>2019</b> ,		5

65	Just-in-time learning based probabilistic gradient boosting tree for valve failure prognostics. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 150, 107253	7.8	5
64	An investigation into the relationship between China's economic development and carbon dioxide emissions. <i>Climate and Development</i> , <b>2017</b> , 9, 66-79	4.4	4
63	Network Moving Target Defense Technique Based on Self-Adaptive End-Point Hopping. <i>Arabian Journal for Science and Engineering</i> , <b>2017</b> , 42, 3249-3262	2.5	4
62	Game Analysis on the Evolution of Decision-Making of Vaccine Manufacturing Enterprises under the Government Regulation Model. <i>Vaccines</i> , <b>2020</b> , 8,	5.3	4
61	Grey Numbers and Their Operations. <i>Computational Risk Management</i> , <b>2017</b> , 29-43	0.4	4
60	A significance measure for R-fuzzy sets <b>2015</b> ,		4
59	Interval-valued fuzzy decision trees <b>2010</b> ,		4
58	Airport noise simulation using neural networks <b>2008</b> ,		4
57	A New Approach for Delivering Customized Security Everywhere: Security Service Chain. <i>Security and Communication Networks</i> , <b>2017</b> , 2017, 1-17	1.9	3
56	A Retrieval Optimized Surveillance Video Storage System for Campus Application Scenarios. <i>Journal of Electrical and Computer Engineering</i> , <b>2018</b> , 2018, 1-10	1.9	3
55	New Insights into Approaches to Evaluating Intention and Path for Network Multistep Attacks. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-13	1.1	3
54	Several problems need to be studied in grey system theory <b>2017</b> ,		3
53	Development of 2D curve-fitting genetic/gene-expression programming technique for efficient time-series financial forecasting <b>2015</b> ,		3
52	An intelligent diagnostic and prognostic framework for large-scale rotating machinery in the presence of scarce failure data. <i>Structural Health Monitoring</i> , <b>2020</b> , 19, 1375-1390	4.4	3
51	Multiagent Collaborative Governance for Targeted Poverty Alleviation from the Perspective of Stakeholders. <i>Complexity</i> , <b>2020</b> , 2020, 1-21	1.6	3
50	Hyperspectral anomaly detection based on the distinguishing features of a redundant difference-value network. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 5455-5473	3.1	3
49	Do not try to evaluate research results in a hurry. <i>Grey Systems Theory and Application</i> , <b>2019</b> , 9, 2-4	1.6	2
48	The quantification of subjectivity: The R-fuzzy grey analysis framework. <i>Expert Systems With Applications</i> , <b>2019</b> , 136, 201-216	7.8	2

47	A new gaze points agglomerative clustering algorithm and its application in regions of interest extraction <b>2014</b> ,		2
46	The interaction between the innovation and the output of China'S High-tech industries based on grey relational analysis <b>2014</b> ,		2
45	Irregularity-based saliency identification and evaluation <b>2013</b> ,		2
44	A Hybrid Trust Service Architecture for Cloud Computing <b>2013</b> ,		2
43	On condition of reaching a high level of consensus when new decision makers join. <i>Kybernetes</i> , <b>2013</b> , 42, 999-1015	2	2
42	Extended Grey Numbers. <i>Understanding Complex Systems</i> , <b>2010</b> , 73-85	0.4	2
41	Roughness Bounds in Set-oriented Rough Set Operations <b>2006</b> ,		2
40	Improved neural network training using redundant structure		2
39	A conceptual framework for society-oriented decision support. <i>AI and Society</i> , <b>2005</b> , 19, 279-291	2.1	2
38	Introduction to Grey Systems Modeling Software. <i>Computational Risk Management</i> , <b>2017</b> , 285-299	0.4	2
37	A greyiness reduction framework for prediction of grey heterogeneous data. <i>Soft Computing</i> , <b>2020</b> , 24, 17913-17929	3.5	2
36	Risk assessment model of agricultural drought disaster based on grey matter-element analysis theory. <i>Natural Hazards</i> , <b>2021</b> , 107, 2693-2707	3	2
35	Explanation of terms of concepts and fundamental principles of grey systems. <i>Grey Systems Theory and Application</i> , <b>2016</b> , 6, 429-435	1.6	2
34	Similarity-based information fusion grey model for remaining useful life prediction of aircraft engines. <i>Grey Systems Theory and Application</i> , <b>2021</b> , 11, 463-483	1.6	2
33	A Residual-Attention Offline Handwritten Chinese Text Recognition Based on Fully Convolutional Neural Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 132301-132310	3.5	2
32	Grey relational analysis and natural language Processing <b>2015</b> ,		1
31	<b>2015</b> ,		1
30	<b>2015</b> ,		1

29	Irregularity-based image regions saliency identification and evaluation. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 25-48	2.5	1
28	Research on the quantification method of the operational need based on access purpose and exponential smoothing <b>2014</b> ,		1
27	Investigation into effectiveness of rough sets in prediction of enzyme and protein structure classes <b>2009</b> ,		1
26	A Preliminary Research and Implementation of a Hierarchical High Availability Network Disaster-Tolerant System <b>2011</b> ,		1
25	Disaster recovery evaluation PROC model framework based on information flow <b>2011</b> ,		1
24	Hierarchical Disaster Tolerant Architecture Based on Virtual Storage Technology <b>2009</b> ,		1
23	Natural language processing: a prolog perspective. <i>Artificial Intelligence Review</i> , <b>2010</b> , 33, 151-173	9.7	1
22	Research of Applying Information Entropy and Clustering Technique on Network Traffic Analysis <b>2008</b> ,		1
21	A new method for explaining neural network reasoning		1
20	Research on physical health early warning based on GM(1,1).. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105256	7	1
19	Predicting the trend of infectious diseases using grey self-memory system model: a case study of the incidence of tuberculosis. <i>Public Health</i> , <b>2021</b> , 201, 108-114	4	1
18	Mitigating Environmental Constraints at Airports through Long Term Planning: A Decision Support Approach. <i>Air Traffic Control Quarterly</i> , <b>2004</b> , 12, 107-124		1
17	A Representation of Business Oriented Cyber Threat Intelligence and the Objects Assembly <b>2020</b> ,		1
16	A novel synthetic index of two counts and mathematical model for researcher evaluation. <i>Grey Systems Theory and Application</i> , <b>2020</b> , 10, 85-95	1.6	1
15	Weight Analysis for Multiattribute Group Decision-Making with Interval Grey Numbers Based on Decision-Makers' Psychological Criteria. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-11	1.1	1
14	Grey theoryBased BP-NN co-training for dense sequence long-term tendency prediction. <i>Grey Systems Theory and Application</i> , <b>2020</b> , 11, 327-338	1.6	1
13	Relation between China's gasoline prices and international crude oil prices. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , <b>2016</b> , 11, 953-959	3.1	1
12	A Business Process Oriented Dynamic Cyber Threat Intelligence Model <b>2019</b> ,		1



11	Micro-macro dynamics of the online opinion evolution: An asynchronous network model approach. <i>Concurrency Computation Practice and Experience</i> , <b>2021</b> , 33, e5981	1.4	1
10	Membership-Function-Dependent Design of L1-Gain Output Feedback Controller for Stabilization of Positive Polynomial Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	1
9	The nonlinear time lag multivariable grey prediction model based on interval grey numbers and its application. <i>Natural Hazards</i> , <b>2021</b> , 107, 2517-2531	3	1
8	Two-stage salient object identification and segmentation based on irregularity. <i>Multimedia Tools and Applications</i> , 1	2.5	1
7	A Supplier Selection Model Using Alternative Ranking Process by Alternatives Stability Scores and the Grey Equilibrium Product. <i>Processes</i> , <b>2022</b> , 10, 917	2.9	1
6	Forecasting smog in Beijing using a novel time-lag GM(1,N) model based on interval grey number sequences. <i>Grey Systems Theory and Application</i> , <b>2021</b> , 11, 754-778	1.6	0
5	Efficiency Analysis of Scientific and Technological Innovation in Grain Production Based on Improved Grey Incidence Analysis. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 1241	3	0
4	Applying Neural Networks and Geographical Information Systems to Airport Noise Evaluation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 998-1003	0.9	
3	An Analysis Method of Thermal Interface of Cryogenic Cooling Path. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-2	1.8	
2	Generalizations of rough sets via topology. <i>Afrika Matematika</i> , <b>2021</b> , 32, 41-50	0.7	
1	Evaluation of High-Quality Development of Manufacturing Industry Using a Novel Grey Dynamic Double Incentive Decision-Making Model. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-10	1.1	