

Ying-jie Yang

List of Publications by Year in descending order

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162
papers

2,831
citations

201385

27
h-index

205818

48
g-index

171
all docs

171
docs citations

171
times ranked

1685
citing authors

#	ARTICLE	IF	CITATIONS
1	A brief introduction to grey systems theory. <i>Grey Systems Theory and Application</i> , 2012, 2, 89-104.	1.0	187
2	Using a novel multi-variable grey model to forecast the electricity consumption of Shandong Province in China. <i>Energy</i> , 2018, 157, 327-335.	4.5	169
3	Grey Data Analysis. <i>Computational Risk Management</i> , 2017, , .	0.5	146
4	New progress of Grey System Theory in the new millennium. <i>Grey Systems Theory and Application</i> , 2016, 6, 2-31.	1.0	126
5	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> , 2015, 66, 1-8.	3.3	123
6	On novel grey forecasting model based on non-homogeneous index sequence. <i>Applied Mathematical Modelling</i> , 2013, 37, 5059-5068.	2.2	120
7	Consistency of 2D and 3D distances of intuitionistic fuzzy sets. <i>Expert Systems With Applications</i> , 2012, 39, 8665-8670.	4.4	103
8	Grey double exponential smoothing model and its application on pig price forecasting in China. <i>Applied Soft Computing Journal</i> , 2016, 39, 117-123.	4.1	85
9	Prediction of air quality indicators for the Beijing-Tianjin-Hebei region. <i>Journal of Cleaner Production</i> , 2018, 196, 682-687.	4.6	84
10	General grey numbers and their operations. <i>Grey Systems Theory and Application</i> , 2012, 2, 341-349.	1.0	83
11	Grey sets and greyness. <i>Information Sciences</i> , 2012, 185, 249-264.	4.0	81
12	A summary on the research of GRA models. <i>Grey Systems Theory and Application</i> , 2013, 3, 7-15.	1.0	63
13	Intuitionistic fuzzy sets: Spherical representation and distances. <i>International Journal of Intelligent Systems</i> , 2009, 24, 399-420.	3.3	59
14	A novel energy consumption forecasting model combining an optimized DGM (1, 1) model with interval grey numbers. <i>Journal of Cleaner Production</i> , 2019, 229, 256-267.	4.6	59
15	The optimal group consensus models for 2-tuple linguistic preference relations. <i>Knowledge-Based Systems</i> , 2013, 37, 427-437.	4.0	55
16	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.	4.3	51
17	A new extension of fuzzy sets using rough sets: R-fuzzy sets. <i>Information Sciences</i> , 2010, 180, 354-365.	4.0	49
18	Data-based structure selection for unified discrete grey prediction model. <i>Expert Systems With Applications</i> , 2019, 136, 264-275.	4.4	44

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19	Using grey Holt-Winters model to predict the air quality index for cities in China. <i>Natural Hazards</i> , 2017, 88, 1003-1012.	1.6	37
20	Reliability of operations of grey numbers using kernels. <i>Grey Systems Theory and Application</i> , 2011, 1, 57-71.	1.0	35
21	An analysis on investment policy effect of China's photovoltaic industry based on feedback model. <i>Applied Energy</i> , 2014, 135, 423-428.	5.1	35
22	A Gray Model With a Time Varying Weighted Generating Operator. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016, 46, 427-433.	5.9	31
23	Network moving target defense technique based on collaborative mutation. <i>Computers and Security</i> , 2017, 70, 51-71.	4.0	30
24	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> , 2019, 82, 105564.	4.1	30
25	Grey cluster evaluation models based on mixed triangular whitenization weight functions. <i>Grey Systems Theory and Application</i> , 2015, 5, 410-418.	1.0	28
26	Four basic models of GM(1, 1) and their suitable sequences. <i>Grey Systems Theory and Application</i> , 2015, 5, 141-156.	1.0	28
27	Multi-variable weakening buffer operator and its application. <i>Information Sciences</i> , 2016, 339, 98-107.	4.0	28
28	A novel multi-information fusion grey model and its application in wear trend prediction of wind turbines. <i>Applied Mathematical Modelling</i> , 2019, 71, 543-557.	2.2	28
29	Uncertainty Representation of Grey Numbers and Grey Sets. <i>IEEE Transactions on Cybernetics</i> , 2014, 44, 1508-1517.	6.2	27
30	Explanation of terms of grey incidence analysis models. <i>Grey Systems Theory and Application</i> , 2017, 7, 136-142.	1.0	26
31	THE SPHERICAL DISTANCE FOR INTUITIONISTIC FUZZY SETS AND ITS APPLICATION IN DECISION ANALYSIS. <i>Technological and Economic Development of Economy</i> , 2017, 22, 393-415.	2.3	24
32	Particle swarm optimization for SNP haplotype reconstruction problem. <i>Applied Mathematics and Computation</i> , 2008, 196, 266-272.	1.4	23
33	Interval-valued fuzzy decision trees with optimal neighbourhood perimeter. <i>Applied Soft Computing Journal</i> , 2014, 24, 851-866.	4.1	22
34	Forecasting the multifactorial interval grey number sequences using grey relational model and GM (1, 1). <i>Journal of Grey Systems</i> , 2017, 29, 1-10.	2.1	22
35	Extended grey numbers and their operations. <i>Grey Systems Theory and Application</i> , 2007, 1, 1-10.		19
36	The optimal group consensus deviation measure for multiplicative preference relations. <i>Expert Systems With Applications</i> , 2012, 39, 11548-11555.	4.4	19

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37	Canonical variate residuals-based contribution map for slowly evolving faults. <i>Journal of Process Control</i> , 2019, 76, 87-97.	1.7	19
38	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.	4.4	19
39	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> , 2020, 147, 106658.	3.4	17
40	Just-in-time learning based probabilistic gradient boosting tree for valve failure prognostics. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107253.	4.4	17
41	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.	1.7	15
42	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.	3.9	15
43	Explanation of terms of grey forecasting models. <i>Grey Systems Theory and Application</i> , 2017, 7, 123-128.	1.0	14
44	Filter Design for Positive Tâ€™S Fuzzy Continuous-Time Systems With Time Delay Using Piecewise-Linear Membership Functions. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 2521-2531.	6.5	14
45	Explanation of terms of grey numbers and its operations. <i>Grey Systems Theory and Application</i> , 2016, 6, 436-441.	1.0	13
46	Green-Oriented Offloading and Resource Allocation by Reinforcement Learning in MEC. , 2019, , .		13
47	A new method to mitigate data fluctuations for time series prediction. <i>Applied Mathematical Modelling</i> , 2019, 65, 390-407.	2.2	13
48	Risk assessment model of agricultural drought disaster based on grey matter-element analysis theory. <i>Natural Hazards</i> , 2021, 107, 2693-2707.	1.6	13
49	A Residual-Attention Offline Handwritten Chinese Text Recognition Based on Fully Convolutional Neural Networks. <i>IEEE Access</i> , 2021, 9, 132301-132310.	2.6	13
50	Advance in grey incidence analysis modelling. , 2011, , .		12
51	A summary of The progress in grey system research. , 2013, , .		12
52	Security risk situation quantification method based on threat prediction for multimedia communication network. <i>Multimedia Tools and Applications</i> , 2018, 77, 21693-21723.	2.6	12
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.	8.5	12
54	Uncertainty and grey data analytics. <i>Marine Economics and Management</i> , 2019, 2, 73-86.	0.5	12

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55	Grey strategies interaction model. Journal of Strategy and Management, 2018, ahead-of-print, .	1.9	11
56	Generalisation of roughness bounds in rough set operations. International Journal of Approximate Reasoning, 2008, 48, 868-878.	1.9	10
57	A Model to Determine OWA Weights and Its Application in Energy Technology Evaluation. International Journal of Intelligent Systems, 2015, 30, 798-806.	3.3	10
58	R-fuzzy sets and grey system theory. , 2016, , .		10
59	Improving anytime behavior for traffic signal control optimization based on NSGA-II and local search. , 2016, , .		10
60	Quantification of R-fuzzy sets. Expert Systems With Applications, 2016, 55, 374-387.	4.4	10
61	Explanation of terms of grey clustering evaluation models. Grey Systems Theory and Application, 2017, 7, 129-135.	1.0	10
62	Explanation of terms of Grey models for decision-making. Grey Systems Theory and Application, 2018, 8, 382-387.	1.0	10
63	Natural language processing: a prolog perspective. Artificial Intelligence Review, 2010, 33, 151-173.	9.7	9
64	Explanation of terms of sequence operators and grey data mining. Grey Systems Theory and Application, 2016, 6, 442-447.	1.0	9
65	On the contribution of defense innovation to China's economic growth. Defence and Peace Economics, 2016, 27, 820-837.	1.0	9
66	The Behavior Mechanism of the Urban Joint Distribution Alliance under Government Supervision from the Perspective of Sustainable Development. Sustainability, 2019, 11, 6232.	1.6	9
67	Integrating theory of constraints and particle swarm optimization in order planning and scheduling for machine tool production. International Journal of Advanced Manufacturing Technology, 2011, 57, 285-296.	1.5	8
68	A commentary on some of the intrinsic differences between grey systems and fuzzy systems. , 2014, , .		8
69	An optimization model of the acceptable consensus and its economic significance. Kybernetes, 2016, 45, 181-206.	1.2	8
70	Similarity-based information fusion grey model for remaining useful life prediction of aircraft engines. Grey Systems Theory and Application, 2021, 11, 463-483.	1.0	8
71	A Supplier Selection Model Using Alternative Ranking Process by Alternatives' Stability Scores and the Grey Equilibrium Product. Processes, 2022, 10, 917.	1.3	8
72	Global roughness of approximation and boundary rough sets. , 2008, , .		7

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73	Several problems need to be studied in grey system theory. , 2017, , .		7
74	Membership-Function-Dependent Design of L_1 -Gain Output-Feedback Controller for Stabilization of Positive Polynomial Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 2086-2100.	6.5	7
75	The nonlinear time lag multivariable grey prediction model based on interval grey numbers and its application. Natural Hazards, 2021, 107, 2517-2531.	1.6	7
76	A strategic decision support tool for indicating airport sustainability. Environmental Modelling and Software, 2001, 16, 297-298.	1.9	6
77	Airport noise simulation using neural networks. , 2008, , .		6
78	A DoS attack situation assessment method based on QoS. , 2011, , .		6
79	An uncertain programming model for preventive maintenance scheduling. Grey Systems Theory and Application, 2017, 7, 111-122.	1.0	6
80	Network Moving Target Defense Technique Based on Self-Adaptive End-Point Hopping. Arabian Journal for Science and Engineering, 2017, 42, 3249-3262.	1.7	6
81	An Intuitionistic Fuzzy Stochastic Decision-Making Method Based on Case-Based Reasoning and Prospect Theory. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	6
82	A New Approach for Delivering Customized Security Everywhere: Security Service Chain. Security and Communication Networks, 2017, 2017, 1-17.	1.0	6
83	An intelligent diagnostic and prognostic framework for large-scale rotating machinery in the presence of scarce failure data. Structural Health Monitoring, 2020, 19, 1375-1390.	4.3	6
84	Predicting the trend of infectious diseases using grey self-memory system model: a case study of the incidence of tuberculosis. Public Health, 2021, 201, 108-114.	1.4	6
85	Roughness Bounds in Set-oriented Rough Set Operations. , 2006, , .		5
86	Interval-valued fuzzy decision trees. , 2010, , .		5
87	A significance measure for R-fuzzy sets. , 2015, , .		5
88	On the new model system and framework of grey system theory. , 2015, , .		5
89	An investigation into the relationship between China's economic development and carbon dioxide emissions. Climate and Development, 2017, 9, 66-79.	2.2	5
90	Game Analysis on the Evolution of Decision-Making of Vaccine Manufacturing Enterprises under the Government Regulation Model. Vaccines, 2020, 8, 267.	2.1	5

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91	Hyperspectral anomaly detection based on the distinguishing features of a redundant difference-value network. <i>International Journal of Remote Sensing</i> , 2021, 42, 5455-5473.	1.3	5
92	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> , 2021, 11, 754-778.	1.0	5
93	Research on physical health early warning based on GM(1,1). <i>Computers in Biology and Medicine</i> , 2022, 143, 105256.	3.9	5
94	Efficiency Analysis of Scientific and Technological Innovation in Grain Production Based on Improved Grey Incidence Analysis. <i>Agriculture (Switzerland)</i> , 2021, 11, 1241.	1.4	5
95	Irregularity-based saliency identification and evaluation. , 2013, , .		4
96	A new gaze points agglomerative clustering algorithm and its application in regions of interest extraction. , 2014, , .		4
97	Development of 2D curve-fitting genetic/gene-expression programming technique for efficient time-series financial forecasting. , 2015, , .		4
98	New Insights into Approaches to Evaluating Intention and Path for Network Multistep Attacks. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-13.	0.6	4
99	The quantification of subjectivity: The R-fuzzy grey analysis framework. <i>Expert Systems With Applications</i> , 2019, 136, 201-216.	4.4	4
100	A conceptual framework for society-oriented decision support. <i>AI and Society</i> , 2005, 19, 279-291.	3.1	3
101	Relation between China's gasoline prices and international crude oil prices. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 953-959.	1.8	3
102	Explanation of terms of concepts and fundamental principles of grey systems. <i>Grey Systems Theory and Application</i> , 2016, 6, 429-435.	1.0	3
103	A Retrieval Optimized Surveillance Video Storage System for Campus Application Scenarios. <i>Journal of Electrical and Computer Engineering</i> , 2018, 2018, 1-10.	0.6	3
104	Do not try to evaluate research results in a hurry. <i>Grey Systems Theory and Application</i> , 2019, 9, 2-4.	1.0	3
105	Multiagent Collaborative Governance for Targeted Poverty Alleviation from the Perspective of Stakeholders. <i>Complexity</i> , 2020, 2020, 1-21.	0.9	3
106	A greyness reduction framework for prediction of grey heterogeneous data. <i>Soft Computing</i> , 2020, 24, 17913-17929.	2.1	3
107	Improved neural network training using redundant structure. , 0, , .		2
108	Hierarchical Disaster Tolerant Architecture Based on Virtual Storage Technology. , 2009, , .		2

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109	Extended Grey Numbers. Understanding Complex Systems, 2010, , 73-85.	0.3	2
110	A DoS Attack Situation Visualization Method Based on Parallel Coordinates. , 2012, , .		2
111	A Hybrid Trust Service Architecture for Cloud Computing. , 2013, , .		2
112	On condition of reaching a high level of consensus when new decision makers join. Kybernetes, 2013, 42, 999-1015.	1.2	2
113	Research on the quantification method of the operational need based on access purpose and exponential smoothing. , 2014, , .		2
114	The interaction between the innovation and the output of China'S High-tech industries based on grey relational analysis. , 2014, , .		2
115	Development of a genetic programming-based GA methodology for the prediction of short-to-medium-term stock markets. , 2016, , .		2
116	The Grey Systems Theory Framework. Computational Risk Management, 2017, , 17-28.	0.5	2
117	A Representation of Business Oriented Cyber Threat Intelligence and the Objects Assembly. , 2020, , .		2
118	A novel synthetic index of two counts and mathematical model for researcher evaluation. Grey Systems Theory and Application, 2020, 10, 85-95.	1.0	2
119	Weight Analysis for Multiattribute Group Decision-Making with Interval Grey Numbers Based on Decision-Makersâ€™ Psychological Criteria. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	2
120	Grey theoryâ€‘based BP-NN co-training for dense sequence long-term tendency prediction. Grey Systems Theory and Application, 2020, 11, 327-338.	1.0	2
121	Spectrum analysis of moving average operator and construction of time-frequency hybrid sequence operator. Grey Systems Theory and Application, 2022, 12, 101-116.	1.0	2
122	Index similarity assisted particle filter for early failure time prediction with applications to turbofan engines and compressors. Expert Systems With Applications, 2022, 207, 118008.	4.4	2
123	A new method for explaining neural network reasoning. , 0, , .		1
124	Research of Applying Information Entropy and Clustering Technique on Network Traffic Analysis. , 2008, , .		1
125	Kernels of grey numbers and their operations. , 2008, , .		1
126	Investigation into effectiveness of rough sets in prediction of enzyme and protein structure classes. , 2009, , .		1

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127	A Preliminary Research and Implementation of a Hierarchical High Availability Network Disaster-Tolerant System. , 2011, , .		1
128	Disaster recovery evaluation PROC model framework based on information flow. , 2011, , .		1
129	A New Approach to Improve the Overall Accuracy and the Filter Value Accuracy of the GM (1,1) New-Information and GM (1,1) Metabolic Models. , 2013, , .		1
130	Grey relational analysis and natural language Processing. , 2015, , .		1
131	Human attention-based regions of interest extraction using computational intelligence. , 2015, , .		1
132	Irregularity-based image regions saliency identification and evaluation. Multimedia Tools and Applications, 2016, 75, 25-48.	2.6	1
133	A Business Process Oriented Dynamic Cyber Threat Intelligence Model. , 2019, , .		1
134	Generalizations of rough sets via topology. Afrika Matematika, 2021, 32, 41-50.	0.4	1
135	Micro-macro dynamics of the online opinion evolution: An asynchronous network model approach. Concurrency Computation Practice and Experience, 2021, 33, e5981.	1.4	1
136	Two-stage salient object identification and segmentation based on irregularity. Multimedia Tools and Applications, 0, , 1.	2.6	1
137	Mitigating Environmental Constraints at Airports through Long Term Planning: A Decision Support Approach. Air Traffic Control Quarterly, 2004, 12, 107-124.	0.7	1
138	Series of GM Models. Computational Risk Management, 2017, , 141-181.	0.5	1
139	Grey Incidence Analysis Models. Computational Risk Management, 2017, , 67-103.	0.5	1
140	Applying Neural Networks and Geographical Information Systems to Airport Noise Evaluation. Lecture Notes in Computer Science, 2005, , 998-1003.	1.0	0
141	Acquisition and visualization of sensitive security audit events. , 2008, , .		0
142	A novel meta database for relationships between Bioinformatics databases. , 2009, , .		0
143	A Clustering Analysis Method for Network Traffic Based on Feature Parameter Distribution. , 2009, , .		0
144	Study on Reversibility of Genetic Toxicity of TDI in Mice. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0

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145	Study of algorithms for selecting effective network traffic monitors based on cover ratio. Proceedings of SPIE, 2011, , .	0.8	0
146	Operations of grey sets. , 2011, , .		0
147	Hierarchical index system for crash-stop service failure detection. , 2011, , .		0
148	An Improved Framework of Disaster-Tolerance Oriented Adaptive Failure Detection. , 2011, , .		0
149	A double-layer failure detection algorithm based on weight. , 2012, , .		0
150	A new method for operations of interval numbers. , 2012, , .		0
151	A new decision model to solve the clustering dilemma. , 2016, , .		0
152	Self-Adaptive End-Point Mutation Technique Based on Adversary Strategy Awareness. , 2016, , .		0
153	Customer's 110kV power substations in the large data centers. , 2017, , .		0
154	High Power-density ICT Equipment Calls for Simpler Power Distribution Architecture and Updated Codes. , 2018, , .		0
155	An Analysis Method of Thermal Interface of Cryogenic Cooling Path. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-2.	1.1	0
156	A protocol anomaly detection method based on optimized hidden Markov model. , 2015, , .		0
157	A Security Policy Description Language for Distributed Policy Self-management. , 2015, , .		0
158	Review of Core Support Capabilities of the Equipment SoS Analysis and Evaluation. , 2016, , .		0
159	Combined Grey Models. Computational Risk Management, 2017, , 183-207.	0.5	0
160	Grey Clustering Evaluation Models. Computational Risk Management, 2017, , 105-139.	0.5	0
161	Evaluation of High-Quality Development of Manufacturing Industry Using a Novel Grey Dynamic Double Incentive Decision-Making Model. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	0
162	Analysis on Scientific and Technological Innovation of Grain Production in Henan Province Based on SD-GM Approach. Discrete Dynamics in Nature and Society, 2022, 2022, 1-18.	0.5	0