

Ying-jie Yang

List of Publications by Year in Descending Order

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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	Research on physical health early warning based on GM(1,1).. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105256	7	1
135	A Supplier Selection Model Using Alternative Ranking Process by Alternatives Stability Scores and the Grey Equilibrium Product. <i>Processes</i> , 2022 , 10, 917	2.9	1
134	Evaluation of High-Quality Development of Manufacturing Industry Using a Novel Grey Dynamic Double Incentive Decision-Making Model. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-10	1.1	
133	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
132	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	1.6	0
131	Risk assessment model of agricultural drought disaster based on grey matter-element analysis theory. <i>Natural Hazards</i> , 2021 , 107, 2693-2707	3	2
130	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	3.1	3
129	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	6.7	10
128	Generalizations of rough sets via topology. <i>Afrika Matematika</i> , 2021 , 32, 41-50	0.7	
127	Just-in-time learning based probabilistic gradient boosting tree for valve failure prognostics. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107253	7.8	5
126	Similarity-based information fusion grey model for remaining useful life prediction of aircraft engines. <i>Grey Systems Theory and Application</i> , 2021 , 11, 463-483	1.6	2
125	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
124	Membership-Function-Dependent Design of L1-Gain Output Feedback Controller for Stabilization of Positive Polynomial Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	1
123	The nonlinear time lag multivariable grey prediction model based on interval grey numbers and its application. <i>Natural Hazards</i> , 2021 , 107, 2517-2531	3	1
122	A Residual-Attention Offline Handwritten Chinese Text Recognition Based on Fully Convolutional Neural Networks. <i>IEEE Access</i> , 2021 , 9, 132301-132310	3.5	2
121	Efficiency Analysis of Scientific and Technological Innovation in Grain Production Based on Improved Grey Incidence Analysis. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1241	3	0
120	Game Analysis on the Evolution of Decision-Making of Vaccine Manufacturing Enterprises under the Government Regulation Model. <i>Vaccines</i> , 2020 , 8,	5.3	4

119	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	5
118	A greyness reduction framework for prediction of grey heterogeneous data. <i>Soft Computing</i> , 2020 , 24, 17913-17929	3.5	2
117	An intelligent diagnostic and prognostic framework for large-scale rotating machinery in the presence of scarce failure data. <i>Structural Health Monitoring</i> , 2020 , 19, 1375-1390	4.4	3
116	A Representation of Business Oriented Cyber Threat Intelligence and the Objects Assembly 2020 ,		1
115	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	6.4	12
114	A novel synthetic index of two counts and mathematical model for researcher evaluation. <i>Grey Systems Theory and Application</i> , 2020 , 10, 85-95	1.6	1
113	Weight Analysis for Multiattribute Group Decision-Making with Interval Grey Numbers Based on Decision-Makers' Psychological Criteria. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-11	1.1	1
112	Grey theoryBased BP-NN co-training for dense sequence long-term tendency prediction. <i>Grey Systems Theory and Application</i> , 2020 , 11, 327-338	1.6	1
111	Multiagent Collaborative Governance for Targeted Poverty Alleviation from the Perspective of Stakeholders. <i>Complexity</i> , 2020 , 2020, 1-21	1.6	3
110	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> , 2020 , 24, 5255-5269	3.5	11
109	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	7.5	14
108	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	10.3	34
107	Canonical variate residuals-based contribution map for slowly evolving faults. <i>Journal of Process Control</i> , 2019 , 76, 87-97	3.9	9
106	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	4.5	19
105	Do not try to evaluate research results in a hurry. <i>Grey Systems Theory and Application</i> , 2019 , 9, 2-4	1.6	2
104	The quantification of subjectivity: The R-fuzzy grey analysis framework. <i>Expert Systems With Applications</i> , 2019 , 136, 201-216	7.8	2
103	Data-based structure selection for unified discrete grey prediction model. <i>Expert Systems With Applications</i> , 2019 , 136, 264-275	7.8	23
102	An Analysis Method of Thermal Interface of Cryogenic Cooling Path. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-2	1.8	

101	Uncertainty and grey data analytics. <i>Marine Economics and Management</i> , 2019 , 2, 73-86	1.5	7
100	The Behavior Mechanism of the Urban Joint Distribution Alliance under Government Supervision from the Perspective of Sustainable Development. <i>Sustainability</i> , 2019 , 11, 6232	3.6	6
99	A Business Process Oriented Dynamic Cyber Threat Intelligence Model 2019 ,		1
98	Green-Oriented Offloading and Resource Allocation by Reinforcement Learning in MEC 2019 ,		5
97	A new method to mitigate data fluctuations for time series prediction. <i>Applied Mathematical Modelling</i> , 2019 , 65, 390-407	4.5	9
96	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
95	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
94	Security risk situation quantification method based on threat prediction for multimedia communication network. <i>Multimedia Tools and Applications</i> , 2018 , 77, 21693-21723	2.5	6
93	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
92	A Retrieval Optimized Surveillance Video Storage System for Campus Application Scenarios. <i>Journal of Electrical and Computer Engineering</i> , 2018 , 2018, 1-10	1.9	3
91	New Insights into Approaches to Evaluating Intention and Path for Network Multistep Attacks. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-13	1.1	3
90	Prediction of air quality indicators for the Beijing-Tianjin-Hebei region. <i>Journal of Cleaner Production</i> , 2018 , 196, 682-687	10.3	68
89	Grey strategies interaction model. <i>Journal of Strategy and Management</i> , 2018 , ahead-of-print,	2.4	6
88	Explanation of terms of Grey models for decision-making. <i>Grey Systems Theory and Application</i> , 2018 , 8, 382-387	1.6	6
87	Using a novel multi-variable grey model to forecast the electricity consumption of Shandong Province in China. <i>Energy</i> , 2018 , 157, 327-335	7.9	105
86	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
85	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	4.7	19
84	Explanation of terms of grey incidence analysis models. <i>Grey Systems Theory and Application</i> , 2017 , 7, 136-142	1.6	18

83	An uncertain programming model for preventive maintenance scheduling. <i>Grey Systems Theory and Application</i> , 2017 , 7, 111-122	1.6	6
82	Explanation of terms of grey forecasting models. <i>Grey Systems Theory and Application</i> , 2017 , 7, 123-128	1.6	9
81	Network Moving Target Defense Technique Based on Self-Adaptive End-Point Hopping. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 3249-3262	2.5	4
80	Network moving target defense technique based on collaborative mutation. <i>Computers and Security</i> , 2017 , 70, 51-71	4.9	21
79	A New Approach for Delivering Customized Security Everywhere: Security Service Chain. <i>Security and Communication Networks</i> , 2017 , 2017, 1-17	1.9	3
78	Explanation of terms of grey clustering evaluation models. <i>Grey Systems Theory and Application</i> , 2017 , 7, 129-135	1.6	7
77	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
76	Grey Data Analysis. <i>Computational Risk Management</i> , 2017 ,	0.4	108
75	Grey Numbers and Their Operations. <i>Computational Risk Management</i> , 2017 , 29-43	0.4	4
74	Several problems need to be studied in grey system theory 2017 ,		3
73	An Intuitionistic Fuzzy Stochastic Decision-Making Method Based on Case-Based Reasoning and Prospect Theory. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-13	1.1	6
72	Introduction to Grey Systems Modeling Software. <i>Computational Risk Management</i> , 2017 , 285-299	0.4	2
71	Improving anytime behavior for traffic signal control optimization based on NSGA-II and local search 2016 ,		5
70	Explanation of terms of grey numbers and its operations. <i>Grey Systems Theory and Application</i> , 2016 , 6, 436-441	1.6	8
69	Irregularity-based image regions saliency identification and evaluation. <i>Multimedia Tools and Applications</i> , 2016 , 75, 25-48	2.5	1
68	On the contribution of defense innovation to China's economic growth. <i>Defence and Peace Economics</i> , 2016 , 27, 820-837	1.3	6
67	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
66	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

65	An optimization model of the acceptable consensus and its economic significance. <i>Kybernetes</i> , 2016 , 45, 181-206	2	7
64	Quantification of R-fuzzy sets. <i>Expert Systems With Applications</i> , 2016 , 55, 374-387	7.8	9
63	2016 ,		7
62	Explanation of terms of sequence operators and grey data mining. <i>Grey Systems Theory and Application</i> , 2016 , 6, 442-447	1.6	6
61	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	3.1	1
60	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
59	Multi-variable weakening buffer operator and its application. <i>Information Sciences</i> , 2016 , 339, 98-107	7.7	21
58	New progress of Grey System Theory in the new millennium. <i>Grey Systems Theory and Application</i> , 2016 , 6, 2-31	1.6	97
57	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
56	Grey System: Thinking, Methods, and Models with Applications 2015 , 153-224		7
55	Grey relational analysis and natural language Processing 2015 ,		1
54	2015 ,		1
53	2015 ,		1
52	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	5.1	99
51	Grey cluster evaluation models based on mixed triangular whitenization weight functions. <i>Grey Systems Theory and Application</i> , 2015 , 5, 410-418	1.6	17
50	A significance measure for R-fuzzy sets 2015 ,		4
49	A Model to Determine OWA Weights and Its Application in Energy Technology Evaluation. <i>International Journal of Intelligent Systems</i> , 2015 , 30, 798-806	8.4	8
48	Four basic models of GM(1, 1) and their suitable sequences. <i>Grey Systems Theory and Application</i> , 2015 , 5, 141-156	1.6	17

47	Development of 2D curve-fitting genetic/gene-expression programming technique for efficient time-series financial forecasting 2015 ,		3
46	A new gaze points agglomerative clustering algorithm and its application in regions of interest extraction 2014 ,		2
45	Uncertainty representation of grey numbers and grey sets. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1508-17	10.2	21
44	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
43	Interval-valued fuzzy decision trees with optimal neighbourhood perimeter. <i>Applied Soft Computing Journal</i> , 2014 , 24, 851-866	7.5	16
42	The interaction between the innovation and the output of China's High-tech industries based on grey relational analysis 2014 ,		2
41	2014 ,		7
40	Research on the quantification method of the operational need based on access purpose and exponential smoothing 2014 ,		1
39	A summary on the research of GRA models. <i>Grey Systems Theory and Application</i> , 2013 , 3, 7-15	1.6	35
38	On novel grey forecasting model based on non-homogeneous index sequence. <i>Applied Mathematical Modelling</i> , 2013 , 37, 5059-5068	4.5	88
37	Irregularity-based saliency identification and evaluation 2013 ,		2
36	A summary of The progress in grey system research 2013 ,		9
35	The optimal group consensus models for 2-tuple linguistic preference relations. <i>Knowledge-Based Systems</i> , 2013 , 37, 427-437	7.3	48
34	A Hybrid Trust Service Architecture for Cloud Computing 2013 ,		2
33	On condition of reaching a high level of consensus when new decision makers join. <i>Kybernetes</i> , 2013 , 42, 999-1015	2	2
32	Grey sets and greyness. <i>Information Sciences</i> , 2012 , 185, 249-264	7.7	58
31	Consistency of 2D and 3D distances of intuitionistic fuzzy sets. <i>Expert Systems With Applications</i> , 2012 , 39, 8665-8670	7.8	65
30	The optimal group consensus deviation measure for multiplicative preference relations. <i>Expert Systems With Applications</i> , 2012 , 39, 11548-11555	7.8	17

29	A brief introduction to grey systems theory. <i>Grey Systems Theory and Application</i> , 2012 , 2, 89-104	1.6	139
28	General grey numbers and their operations. <i>Grey Systems Theory and Application</i> , 2012 , 2, 341-349	1.6	57
27	A DoS attack situation assessment method based on QoS 2011 ,		5
26	Reliability of operations of grey numbers using kernels. <i>Grey Systems Theory and Application</i> , 2011 , 1, 57-71	1.6	27
25	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> , 2011 , 57, 285-296	3.3	7
24	Advance in grey incidence analysis modelling 2011 ,		6
23	A Preliminary Research and Implementation of a Hierarchical High Availability Network Disaster-Tolerant System 2011 ,		1
22	Disaster recovery evaluation PROC model framework based on information flow 2011 ,		1
21	Extended Grey Numbers. <i>Understanding Complex Systems</i> , 2010 , 73-85	0.4	2
20	Interval-valued fuzzy decision trees 2010 ,		4
19	Natural language processing: a prolog perspective. <i>Artificial Intelligence Review</i> , 2010 , 33, 151-173	9.7	1
18	A new extension of fuzzy sets using rough sets: R-fuzzy sets. <i>Information Sciences</i> , 2010 , 180, 354-365	7.7	40
17	Investigation into effectiveness of rough sets in prediction of enzyme and protein structure classes 2009 ,		1
16	Intuitionistic fuzzy sets: Spherical representation and distances. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 399-420	8.4	41
15	Hierarchical Disaster Tolerant Architecture Based on Virtual Storage Technology 2009 ,		1
14	Global roughness of approximation and boundary rough sets 2008 ,		6
13	Research of Applying Information Entropy and Clustering Technique on Network Traffic Analysis 2008 ,		1
12	Airport noise simulation using neural networks 2008 ,		4

11	Particle swarm optimization for SNP haplotype reconstruction problem. <i>Applied Mathematics and Computation</i> , 2008 , 196, 266-272	2.7	14
10	Generalisation of roughness bounds in rough set operations. <i>International Journal of Approximate Reasoning</i> , 2008 , 48, 868-878	3.6	10
9	Extended grey numbers and their operations 2007 ,		15
8	Roughness Bounds in Set-oriented Rough Set Operations 2006 ,		2
7	A conceptual framework for society-oriented decision support. <i>AI and Society</i> , 2005 , 19, 279-291	2.1	2
6	Applying Neural Networks and Geographical Information Systems to Airport Noise Evaluation. <i>Lecture Notes in Computer Science</i> , 2005 , 998-1003	0.9	
5	Mitigating Environmental Constraints at Airports through Long Term Planning: A Decision Support Approach. <i>Air Traffic Control Quarterly</i> , 2004 , 12, 107-124		1
4	A strategic decision support tool for indicating airport sustainability. <i>Environmental Modelling and Software</i> , 2001 , 16, 297-298	5.2	6
3	Improved neural network training using redundant structure		2
2	A new method for explaining neural network reasoning		1
1	Two-stage salient object identification and segmentation based on irregularity. <i>Multimedia Tools and Applications</i> ,1	2.5	1