Guo-liang Yang

List of Publications by Year
in descending order

69 papers	2,312 citations	304602 22 h-index	233338 45 g-index
71 all docs	71 docs citations	71 times ranked	1549 citing authors

#	Article	IF	Citations
1	A survey and analysis of the first 40 years of scholarly literature in DEA: 1978–2016. Socio-Economic Planning Sciences, 2018, 61, 4-8.	2.5	749
2	Cross-efficiency evaluation in data envelopment analysis based on prospect theory. European Journal of Operational Research, 2019, 273, 364-375.	3.5	120
3	A framework for measuring global Malmquist–Luenberger productivity index with CO_2 emissions on Chinese manufacturing industries. Energy, 2016, 115, 840-856.	4.5	111
4	CO_2 emissions reduction of Chinese light manufacturing industries: A novel RAM-based global Malmquist–Luenberger productivity index. Energy Policy, 2016, 96, 397-410.	4.2	92
5	Assessing the technological innovation efficiency of China's high-tech industries with a two-stage network DEA approach. Socio-Economic Planning Sciences, 2020, 71, 100810.	2.5	92
6	Measuring the inefficiency of Chinese research universities based on a two-stage network DEA model. Journal of Informetrics, 2018, 12, 10-30.	1.4	91
7	Cross-efficiency aggregation in DEA models using the evidential-reasoning approach. European Journal of Operational Research, 2013, 231, 393-404.	3.5	90
8	A novel inverse DEA model with application to allocate the CO_2 emissions quota to different regions in Chinese manufacturing industries. Journal of the Operational Research Society, 2019, 70, 1079-1090.	2.1	76
9	Corporate social performance and financial performance relationship: A data envelopment analysis approach without explicit input. Finance Research Letters, 2021, 39, 101656.	3.4	43
10	Assessing R&D efficiency using a two-stage dynamic DEA model: A case study of research institutes in the Chinese Academy of Sciences. Journal of Informetrics, 2018, 12, 784-805.	1.4	42
11	Carbon emission abatement quota allocation in Chinese manufacturing industries: An integrated cooperative game data envelopment analysis approach. Journal of the Operational Research Society, 2020, 71, 1259-1288.	2.1	41
12	A three-stage hybrid approach for weight assignment in MADM. Omega, 2017, 71, 93-105.	3.6	40
13	Estimating capacity utilization of Chinese manufacturing industries. Socio-Economic Planning Sciences, 2019, 67, 94-110.	2.5	39
14	A general framework for describing diversity within systems and similarity between systems with applications in informetrics. Scientometrics, 2012, 93, 787-812.	1.6	38
15	Investigating the regional sustainable performance of the Chinese real estate industry: A slack-based DEA approach. Omega, 2019, 84, 141-159.	3.6	37
16	R&D performance assessment of industrial enterprises in China: A two-stage DEA approach. Socio-Economic Planning Sciences, 2020, 71, 100753.	2.5	36
17	Measuring the Chinese regional production potential using a generalized capacity utilization indicator. Omega, 2018, 76, 112-127.	3.6	35
18	Increasing discrimination of DEA evaluation by utilizing distances to anti-efficient frontiers. Computers and Operations Research, 2016, 75, 163-173.	2.4	34

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19	Undesirable and desirable energy congestion measurements for regional coal-fired power generation industry in China. Energy Policy, 2019, 125, 122-134.	4.2	32
20	Negative data in DEA: Recognizing congestion and specifying the least and the most congested decision making units. Computers and Operations Research, 2017, 79, 39-48.	2.4	30
21	Extended utility and DEA models without explicit input. Journal of the Operational Research Society, 2014, 65, 1212-1220.	2.1	28
22	Measuring the capacity utilization of the 48 largest iron and steel enterprises in China. European Journal of Operational Research, 2021, 288, 648-665.	3.5	25
23	Measuring destocking performance of the Chinese real estate industry: A DEA-Malmquist approach. Socio-Economic Planning Sciences, 2020, 69, 100691.	2.5	23
24	A study on directional returns to scale. Journal of Informetrics, 2014, 8, 628-641.	1.4	21
25	Exploring the effect of political borders on university-industry collaborative research performance: Evidence from China's Guangdong province. Technovation, 2019, 82-83, 58-69.	4.2	21
26	Specification of a performance indicator using the evidential-reasoning approach. Knowledge-Based Systems, 2016, 92, 138-150.	4.0	18
27	Using multi-level frontiers in DEA models to grade countries/territories. Journal of Informetrics, 2016, 10, 238-253.	1.4	17
28	Integer data in DEA: Illustrating the drawbacks and recognizing congestion. Computers and Industrial Engineering, 2019, 135, 675-688.	3.4	16
29	Optimizing regional allocation of CO_2 emissions considering output under overall efficiency. Socio-Economic Planning Sciences, 2021, 77, 101012.	2.5	16
30	Institutional change and the optimal size of universities. Scientometrics, 2016, 108, 1129-1153.	1.6	15
31	Performance Management of Supply Chain Sustainability in Small and Medium-Sized Enterprises Using a Combined Structural Equation Modelling and Data Envelopment Analysis. Computational Economics, 2021, 58, 573-613.	1.5	15
32	A parallel DEA-based method for evaluating parallel independent subunits with heterogeneous outputs. Journal of Informetrics, 2020, 14, 101049.	1.4	13
33	Aggregating the DEA prospect cross-efficiency with an application to state key laboratories in China. Socio-Economic Planning Sciences, 2020, 71, 100809.	2.5	13
34	How to allocate multi-period research resources? Centralized resource allocation for public universities in China using a parallel DEA-based approach. Socio-Economic Planning Sciences, 2022, 82, 101317.	2.5	13
35	The Hierarchy and Transition of China's Urban Energy Efficiency. Energy Procedia, 2016, 104, 110-117.	1.8	12
36	Evaluating the higher education productivity of Chinese and European "elite" universities using a meta-frontier approach. Scientometrics, 2021, 126, 5819-5853.	1.6	12

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37	Eco-efficiency of Chinese transportation industry: A DEA approach with non-discretionary input. Socio-Economic Planning Sciences, 2022, 84, 101383.	2.5	11
38	A non-parametric decomposition of the environmental performance-income relationship: evidence from a non-linear model. Annals of Operations Research, 0, , 1.	2.6	10
39	A novel approach for assessing academic journals: Application of integer DEA model for management science and operations research field. Journal of Informetrics, 2021, 15, 101176.	1.4	9
40	Eliminating congestion by increasing inputs in R&D activities of Chinese universities. Omega, 2022, 110, 102618.	3.6	9
41	The network data envelopment analysis models for non-homogenous decision making units based on the sun network structure. Central European Journal of Operations Research, 2019, 27, 1221-1244.	1.1	8
42	Measuring the capacity utilization of China's transportation industry under environmental constraints. Transportation Research, Part D: Transport and Environment, 2020, 85, 102450.	3.2	8
43	Variations effect of intermediate products on the second stage in two-stage processes. Omega, 2019, 85, 35-48.	3.6	7
44	A Framework for Assessing Green Capacity Utilization Considering CO_2 Emissions in China's High-Tech Manufacturing Industry. Sustainability, 2020, 12, 4424.	1.6	7
45	Using a novel DEA-based model to investigate capacity utilization of Chinese firms. Omega, 2022, 106, 102534.	3.6	7
46	Productivity assessment of the real estate industry in China: aÂDEA-Malmquist index. Engineering, Construction and Architectural Management, 2023, 30, 1243-1270.	1.8	7
47	Measuring the productivity evolution of Chinese regional thermal power industries using global Malmquist-Luenberger productivity index. International Journal of Energy Sector Management, 2018, 12, 221-243.	1.2	6
48	Quality and quantity are not always positively correlated: A case study of Chinese economics journals. Journal of Informetrics, 2018, 12, 1178-1181.	1.4	6
49	Assessing the regional sustainability performance in China using the global Malmquist-Luenberger productivity index. International Journal of Energy Sector Management, 2021, 15, 820-854.	1.2	6
50	Directional congestion in the framework of data envelopment analysis. Journal of Management Science and Engineering, 2020, 5, 57-75.	1.9	6
51	PRODUCTIVITY ASSESSMENT OF THE REAL ESTATE INDUSTRY IN CHINA: A TWO-STAGE MALMQUIST PRODUCTIVITY INDEX. International Journal of Strategic Property Management, 2021, 25, 146-168.	0.8	6
52	Data envelopment analysis in the absence of convexity: Specifying efficiency status and estimating returns to scale. Journal of Computational and Applied Mathematics, 2016, 304, 172-200.	1.1	4
53	Measuring Performance Evolution of Academic Journals in Management Science and Operations Research: A DEA-Malmquist Approach. Journal of Management Science and Engineering, 2017, 2, 34-54.	1.9	4
54	Twoâ€‘tuple linguistic utility aggregation operator and its applications to group decisionâ€‘making. International Journal of Intelligent Systems, 2019, 34, 1835-1863.	3.3	4

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55	The other side of the coin: The declining of Chinese social science. Scientometrics, 2022, 127, 127-143.	1.6	4
56	Estimating directional returns to scale in DEA. Infor, 2017, 55, 243-273.	0.5	3
57	DEA models with Russell measures. Annals of Operations Research, 2019, 278, 337-359.	2.6	3
58	Estimating Capacity Utilization of Chinese State Farms. Sustainability, 2019, 11, 4894.	1.6	3
59	Regional efficiency of the real estate industry in 35 large and medium-sized cities in Chinaï¼ša meta-frontier SBM approach. Post-Communist Economies, 0, , 1-33.	1.3	3
60	Measuring Scientific Productivity in China Using Malmquist Productivity Index. Journal of Data and Information Science, 2019, 4, 32-59.	0.5	3
61	A proposed fixed-sum carryovers reallocation DEA approach for social scientific resources of Chinese public universities. Scientometrics, 2022, 127, 4097-4121.	1.6	3
62	An utilities based approach for multi-period dynamic portfolio selection. Journal of Systems Science and Systems Engineering, 2007, 16, 277-286.	0.8	2
63	Developing performance measures and setting their targets for national research institutes based on strategy maps. Journal of Science and Technology Policy Management, 2015, 6, 165-186.	1.7	2
64	A review of DEA methods to identify and measure congestion. Journal of Management Science and Engineering, 2021, 6, 345-362.	1.9	2
65	Does Success Breed Success? A Study on the Correlation between Impact Factor and Quantity in Chinese Academic Journals. Journal of Data and Information Science, 2021, 6, 90-110.	0.5	2
66	Data Envelopment Analysis: Recent Developments and Challenges. , 2022, , 307-350.		2
67	Game Perspectives of DEA Models and Their Duals. Journal of Applied Mathematics, 2013, 2013, 1-7.	0.4	1
68	Reply to 'Comment on "Using multi-level frontiers in DEA models to grade countries/territories"by G.-l. Yang et al. [Journal of Informetrics 10(1) (2016), 238–253]'. Journal of Informetrics, 2017, 11, 647-648.	1.4	0
69	Effects of Locus of Control on Bank's Policy—A Case Study of a Chinese State-Owned Bank. Profiles in Operations Research, 2020, , 311-335.	0.3	0