

Guiping Hu

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,217
citations

236925

25
h-index

243625

44
g-index

75
all docs

75
docs citations

75
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic analysis of biomass to transportation fuels and electricity via fast pyrolysis and hydroprocessing. <i>Fuel</i> , 2013, 106, 463-469.	6.4	166
2	Coupling machine learning and crop modeling improves crop yield prediction in the US Corn Belt. <i>Scientific Reports</i> , 2021, 11, 1606.	3.3	160
3	Maize yield and nitrate loss prediction with machine learning algorithms. <i>Environmental Research Letters</i> , 2019, 14, 124026.	5.2	119
4	Techno-economic analysis of monosaccharide production via fast pyrolysis of lignocellulose. <i>Bioresource Technology</i> , 2013, 127, 358-365.	9.6	101
5	A two-layer feature selection method using Genetic Algorithm and Elastic Net. <i>Expert Systems With Applications</i> , 2021, 166, 114072.	7.6	100
6	Comparative techno-economic analysis of biohydrogen production via bio-oil gasification and bio-oil reforming. <i>Biomass and Bioenergy</i> , 2013, 51, 99-108.	5.7	96
7	Techno-economic analysis of two bio-oil upgrading pathways. <i>Chemical Engineering Journal</i> , 2013, 225, 895-904.	12.7	96
8	Forecasting Corn Yield With Machine Learning Ensembles. <i>Frontiers in Plant Science</i> , 2020, 11, 1120.	3.6	96
9	Techno-economic analysis of biobased chemicals production via integrated catalytic processing. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 73-87.	3.7	89
10	Mild catalytic pyrolysis of biomass for production of transportation fuels: a techno-economic analysis. <i>Green Chemistry</i> , 2014, 16, 627-636.	9.0	81
11	Supply chain design under uncertainty for advanced biofuel production based on bio-oil gasification. <i>Energy</i> , 2014, 74, 576-584.	8.8	66
12	Techno-economic analysis of advanced biofuel production based on bio-oil gasification. <i>Bioresource Technology</i> , 2015, 191, 88-96.	9.6	64
13	Supply chain design and operational planning models for biomass to drop-in fuel production. <i>Biomass and Bioenergy</i> , 2013, 58, 238-250.	5.7	62
14	A two-stage stochastic programming model for lot-sizing and scheduling under uncertainty. <i>International Journal of Production Economics</i> , 2016, 180, 198-207.	8.9	50
15	Life cycle assessment of the production of hydrogen and transportation fuels from corn stover via fast pyrolysis. <i>Environmental Research Letters</i> , 2013, 8, 025001.	5.2	46
16	Optimizing Selection and Mating in Genomic Selection with a Look-Ahead Approach: An Operations Research Framework. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2123-2133.	1.8	46
17	A multi-stage stochastic programming for lot-sizing and scheduling under demand uncertainty. <i>Computers and Industrial Engineering</i> , 2018, 119, 157-166.	6.3	44
18	Improving Response in Genomic Selection with a Population-Based Selection Strategy: Optimal Population Value Selection. <i>Genetics</i> , 2017, 206, 1675-1682.	2.9	43

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19	Improving Image-Based Plant Disease Classification With Generative Adversarial Network Under Limited Training Set. <i>Frontiers in Plant Science</i> , 2020, 11, 583438.	3.6	39
20	Multi-trait Genomic Selection Methods for Crop Improvement. <i>Genetics</i> , 2020, 215, 931-945.	2.9	38
21	Optimization models for biorefinery supply chain network design under uncertainty. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	36
22	An oligopoly model to analyze the market and social welfare for green manufacturing industry. <i>Journal of Cleaner Production</i> , 2014, 85, 94-103.	9.3	33
23	Corn Yield Prediction With Ensemble CNN-DNN. <i>Frontiers in Plant Science</i> , 2021, 12, 709008.	3.6	33
24	Optimizing ensemble weights and hyperparameters of machine learning models for regression problems. <i>Machine Learning With Applications</i> , 2022, 7, 100251.	4.4	31
25	Integrated supply chain design for commodity chemicals production via woody biomass fast pyrolysis and upgrading. <i>Bioresource Technology</i> , 2014, 157, 28-36.	9.6	27
26	Techno-economic analysis of biofuel production considering logistic configurations. <i>Bioresource Technology</i> , 2016, 206, 195-203.	9.6	27
27	Is now a good time for Iowa to invest in cellulosic biofuels? A real options approach considering construction lead times. <i>International Journal of Production Economics</i> , 2015, 167, 97-107.	8.9	25
28	Multi-product pickup and delivery supply chain design with location-routing and direct shipment. <i>International Journal of Production Economics</i> , 2020, 226, 107648.	8.9	24
29	Life cycle assessment of commodity chemical production from forest residue via fast pyrolysis. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 1371-1381.	4.7	23
30	A tri-level optimization model for inventory control with uncertain demand and lead time. <i>International Journal of Production Economics</i> , 2018, 195, 96-105.	8.9	23
31	Interdisciplinary strategies to enable data-driven plant breeding in a changing climate. <i>One Earth</i> , 2021, 4, 372-383.	6.8	20
32	Agent-based modeling of bioenergy crop adoption and farmer decision-making. <i>Energy</i> , 2016, 115, 1188-1201.	8.8	19
33	Hybrid stochastic and robust optimization model for lot-sizing and scheduling problems under uncertainties. <i>European Journal of Operational Research</i> , 2020, 284, 485-497.	5.7	19
34	A two-stage stochastic programming model for multi-period reverse logistics network design with lot-sizing. <i>Computers and Industrial Engineering</i> , 2020, 143, 106397.	6.3	18
35	Shop floor lot-sizing and scheduling with a two-stage stochastic programming model considering uncertain demand and workforce efficiency. <i>Computers and Industrial Engineering</i> , 2017, 111, 263-271.	6.3	16
36	Optimization Model for a Thermochemical Biofuels Supply Network Design. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.9	15

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37	A Gated Recurrent Units (GRU)-Based Model for Early Detection of Soybean Sudden Death Syndrome through Time-Series Satellite Imagery. <i>Remote Sensing</i> , 2020, 12, 3621.	4.0	15
38	Closed-Loop Supply Chain Design with Sustainability Aspects and Network Resilience under Uncertainty: Modelling and Application. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-23.	1.1	15
39	Hub relay network design for daily driver routes. <i>International Journal of Production Research</i> , 2019, 57, 6130-6145.	7.5	13
40	Production planning with a two-stage stochastic programming model in a kitting facility under demand and yield uncertainties. <i>International Journal of Management Science and Engineering Management</i> , 2020, 15, 237-246.	3.1	13
41	A genetic algorithm-assisted deep learning approach for crop yield prediction. <i>Soft Computing</i> , 2021, 25, 10617-10628.	3.6	13
42	A dynamic newsvendor problem with goodwill-dependent demands and minimum commitment. <i>Omega</i> , 2019, 89, 242-256.	5.9	12
43	Technoeconomic Sensitivity of Biobased Hydrocarbon Production via Fast Pyrolysis to Government Incentive Programs. <i>Journal of Energy Engineering - ASCE</i> , 2012, 138, 54-62.	1.9	11
44	Optimizing Ensemble Weights for Machine Learning Models: A Case Study for Housing Price Prediction. <i>Springer Proceedings in Business and Economics</i> , 2020, , 87-97.	0.3	11
45	Machine Learning Methods for Quality Prediction in Production. <i>Logistics</i> , 2020, 4, 35.	4.3	11
46	Complementarity-based selection strategy for genomic selection. <i>Crop Science</i> , 2020, 60, 149-156.	1.8	10
47	An applied deep learning approach for estimating soybean relative maturity from UAV imagery to aid plant breeding decisions. <i>Machine Learning With Applications</i> , 2022, 7, 100233.	4.4	9
48	A farm-level precision land management framework based on integer programming. <i>PLoS ONE</i> , 2017, 12, e0174680.	2.5	7
49	Multistage stochastic programming modeling for farmland irrigation management under uncertainty. <i>PLoS ONE</i> , 2020, 15, e0233723.	2.5	6
50	Improving Manufacturing Supply Chain by Integrating SMED and Production Scheduling. <i>Logistics</i> , 2021, 5, 4.	4.3	6
51	The look ahead trace back optimizer for genomic selection under transparent and opaque simulators. <i>Scientific Reports</i> , 2021, 11, 4124.	3.3	6
52	A reinforcement Learning approach to resource allocation in genomic selection. <i>Intelligent Systems With Applications</i> , 2022, 14, 200076.	3.0	6
53	Biomass supply contract pricing and environmental policy analysis: A simulation approach. <i>Energy</i> , 2018, 145, 557-566.	8.8	5
54	A two-stage stochastic programming model for production lot-sizing and scheduling under demand and raw material quality uncertainties. <i>International Journal of Planning and Scheduling</i> , 2019, 3, 1.	0.1	5

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55	A look-ahead Monte Carlo simulation method for improving parental selection in trait introgression. <i>Scientific Reports</i> , 2021, 11, 3918.	3.3	5
56	Value of the 3D Product Model Use in Assembly Processes: Process Planning, Design, and Shop Floor Execution. <i>Applied System Innovation</i> , 2021, 4, 39.	4.6	5
57	The 3D Product Model Research Evolution and Future Trends: A Systematic Literature Review. <i>Applied System Innovation</i> , 2022, 5, 29.	4.6	5
58	Optimizing Crop Planting Schedule Considering Planting Window and Storage Capacity. <i>Frontiers in Plant Science</i> , 2022, 13, 762446.	3.6	5
59	An optimization model for sequential fast pyrolysis facility location-allocation under renewable fuel standard. <i>Energy</i> , 2015, 93, 1165-1172.	8.8	4
60	A branch and bound algorithm to solve a two-machine no-wait flowshop scheduling problem with truncated learning function. <i>International Journal of Management Science and Engineering Management</i> , 2020, 15, 89-95.	3.1	4
61	Closed-Loop Supply Chain Network Design under Uncertainties Using Fuzzy Decision Making. <i>Logistics</i> , 2021, 5, 15.	4.3	4
62	A Multi-Stage Stochastic Programming Model for the Multi-Echelon Multi-Period Reverse Logistics Problem. <i>Sustainability</i> , 2021, 13, 13596.	3.2	4
63	Analyzing Sustainable, Localized Food Production Systems With a Systematic Optimization Model. <i>Journal of Hunger and Environmental Nutrition</i> , 2011, 6, 220-232.	1.9	3
64	Scheduling algorithm based on follow-up sharing character for post-event response resource distribution in large-scale disasters. <i>Journal of Systems Science and Systems Engineering</i> , 2016, 25, 77-101.	1.6	3
65	Quantitative Model for the Value of the 3D Product Model Use in Production Processes. <i>Applied System Innovation</i> , 2021, 4, 90.	4.6	2
66	Resilient Transportation Network Design under Uncertain Link Capacity Using a Trilevel Optimization Model. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-16.	1.7	2
67	Limited Variation between SARS-CoV-2-Infected Individuals in Domain Specificity and Relative Potency of the Antibody Response against the Spike Glycoprotein. <i>Microbiology Spectrum</i> , 2022, 10, e0267621.	3.0	1
68	Ten simple rules to ruin a collaborative environment. <i>PLoS Computational Biology</i> , 2022, 18, e1009957.	3.2	1
69	The L-shaped selection algorithm for multitrait genomic selection. <i>Genetics</i> , 2022, 221, .	2.9	1
70	Integrating Crop Simulation and Machine Learning Models to Improve Crop Yield Prediction. , 2022, , .		1
71	Toward a More Sustainable, Local Food Production System—From a System Modeling Perspective. <i>Journal of Hunger and Environmental Nutrition</i> , 2011, 6, 125-127.	1.9	0
72	Application of the Two-layer Wrapper-Embedded Feature Selection Method to Improve Genomic Selection. , 2022, , .		0

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73	Machine Learning Prediction of Nitrification From Ammonia- and Nitrite-Oxidizer Community Structure. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	0