Zeyi Sun

List of Publications by Year
in descending order

48 papers	838 citations	567144 15 h-index	501076 28 g-index
48 all docs	48 docs citations	48 times ranked	759 citing authors

#	Article	IF	Citations
1	"Just-for-Peak" buffer inventory for peak electricity demand reduction of manufacturing systems. International Journal of Production Economics, 2013, 146, 178-184.	5.1	85
2	Dynamic Energy Control for Energy Efficiency Improvement of Sustainable Manufacturing Systems Using Markov Decision Process. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1195-1205.	5.9	71
3	Energy Consumption Modeling of Stereolithography–Based Additive Manufacturing Toward Environmental Sustainability. Journal of Industrial Ecology, 2017, 21, S168.	2.8	67
4	Potential capability estimation for real time electricity demand response of sustainable manufacturing systems using Markov Decision Process. Journal of Cleaner Production, 2014, 65, 184-193.	4.6	60
5	Opportunity Estimation for Real-Time Energy Control of Sustainable Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2013, 10, 38-44.	3.4	58
6	Inventory control for peak electricity demand reduction of manufacturing systems considering the tradeoff between production loss and energy savings. Journal of Cleaner Production, 2014, 82, 84-93.	4.6	47
7	Identification of reservation capacity in critical peak pricing electricity demand response program for sustainable manufacturing systems. International Journal of Energy Research, 2014, 38, 728-736.	2.2	42
8	Moving second generation biofuel manufacturing forward: Investigating economic viability and environmental sustainability considering two strategies for supply chain restructuring. Applied Energy, 2019, 242, 1467-1496.	5.1	39
9	Plant-level electricity demand response for combined manufacturing system and heating, venting, and air-conditioning (HVAC) system. Journal of Cleaner Production, 2016, 135, 1650-1657.	4.6	36
10	Real-time frequency regulation using aggregated electric vehicles in smart grid. Computers and Industrial Engineering, 2019, 134, 11-26.	3.4	34
11	Peak power demand reduction for combined manufacturing and HVAC system considering heat transfer characteristics. International Journal of Production Economics, 2016, 177, 44-52.	5.1	30
12	Customer-side electricity load management for sustainable manufacturing systems utilizing combined heat and power generation system. International Journal of Production Economics, 2015, 165, 112-119.	5.1	27
13	Economic viability and environmental impact investigation for the biofuel supply chain using co-fermentation technology. Applied Energy, 2020, 259, 114235.	5.1	22
14	Optimal sizing and planning of onsite generation system for manufacturing in Critical Peaking Pricing demand response program. International Journal of Production Economics, 2018, 206, 261-267.	5.1	20
15	Biofuel supply chain optimal design considering economic, environmental, and societal aspects towards sustainability. International Journal of Energy Research, 2018, 42, 2169-2198.	2.2	18
16	Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2101-2112.	5.9	16
17	Optimal production scheduling for energy efficiency improvement in biofuel feedstock preprocessing considering work-in-process particle separation. Energy, 2016, 96, 474-481.	4.5	15
18	Optimal scheduling of manufacturing and onsite generation systems in over-generation mitigation oriented electricity demand response program. Computers and Industrial Engineering, 2018, 115, 381-388.	3.4	13

#	Article	IF	Citations
19	Integration of Sustainable Manufacturing Systems into Smart Grids with High Penetration of Renewable Energy Resources. , 2016, , .		12
20	Reward/Penalty Design in Demand Response for Mitigating Overgeneration Considering the Benefits from both Manufacturers and Utility Company. Procedia Computer Science, 2017, 114, 425-432.	1.2	12
21	Onsite generation system sizing for manufacturing plant considering renewable sources towards sustainability. Sustainable Energy Technologies and Assessments, 2019, 32, 1-18.	1.7	12
22	Real time electricity demand response for sustainable manufacturing systems: Challenges and a case study. , 2012, , .		11
23	Energy Consumption Reduction for Sustainable Manufacturing Systems Considering Machines With Multiple-Power States. , 2011, , .		10
24	Idle Duration Prediction for Manufacturing System Using a Gaussian Mixture Model Integrated Neural Network for Energy Efficiency Improvement. IEEE Transactions on Automation Science and Engineering, 2021, 18, 47-55.	3.4	9
25	Simulation-Based Energy Efficiency Improvement for Sustainable Manufacturing Systems. , 2012, , .		8
26	$\mathcal{DBSDA}$: Lowering the Bound of Misclassification Rate for Sparse Linear Discriminant Analysis via Model Debiasing. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 707-717.	7.2	7
27	Design the Capacity of Onsite Generation System with Renewable Sources for Manufacturing Plant. Procedia Computer Science, 2017, 114, 433-440.	1.2	6
28	Joint Manufacturing and Onsite Microgrid System Control Using Markov Decision Process and Neural Network Integrated Reinforcement Learning. Procedia Manufacturing, 2019, 39, 1242-1249.	1.9	6
29	Joint control of manufacturing and onsite microgrid system via novel neural-network integrated reinforcement learning algorithms. Applied Energy, 2022, 315, 118982.	5.1	6
30	Joint Maintenance and Energy Management of Sustainable Manufacturing Systems. , 2015, , .		5
31	Cost-imbalanced hyper parameter learning framework for quality classification. Journal of Cleaner Production, 2020, 242, 118481.	4.6	5
32	Improving covariance-regularized discriminant analysis for EHR-based predictive analytics of diseases. Applied Intelligence, 2021, 51, 377-395.	3.3	5
33	Simulation-Based Electricity Demand Response for Combined Manufacturing and HVAC System Towards Sustainability. , 2015, , .		4
34	Data driven production runtime energy control of manufacturing systems. , 2015, , .		3
35	Flexible energy load identification in intelligent manufacturing for demand response using a neural network integrated particle swarm optimization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 1943-1959.	1.1	3
36	CRLEDD: Regularized Causalities Learning for Early Detection of Diseases Using Electronic Health Record (EHR) Data. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 541-553.	3.4	3

#	Article	IF	Citations
37	Joint Maintenance and Energy Management in Manufacturing Systems: Prospect Discussion, Challenge Analysis, and a Case Study. , 2016, , .		2
38	A Model to Estimate the Lifetime of BESS for the Prosumer Community of Manufacturers with OGS. Procedia Computer Science, 2020, 168, 186-194.	1.2	2
39	Relationship Investigation Between Energy Consumption and Parameters in Size Reduction and Pelleting Processes of Biofuel Manufacturing. , 2014, , .		2
40	Simulation-Based Optimization of Electricity Demand Response for Sustainable Manufacturing Systems. , 2014, , .		1
41	Framework and Sensitivity Analysis of Joint Energy and Maintenance Planning Considering Production Throughput Requirements. , 2017, , .		1
42	Investigation of Relationship Between Sugar Yield and Particle Size in Biofuel Manufacturing. , 2017, , .		1
43	A Case Study Investigating the Environmental Impact of Pelleting in Cellulosic Biofuel Manufacturing. , 2017, , .		1
44	A Framework of Integrating Manufacturing Plants in Smart Grid Operation: Manufacturing Flexible Load Identification. Procedia Manufacturing, 2019, 39, 1232-1241.	1.9	1
45	Learning Curve Analysis Using Intensive Longitudinal and Cluster-Correlated Data. Procedia Computer Science, 2017, 114, 250-257.	1.2	0
46	A General Algorithm for Assessing Product Architecture Performance Considering Architecture Extension in Cyber Manufacturing. Procedia Computer Science, 2017, 114, 384-391.	1.2	0
47	OGM: Online gaussian graphical models on the fly. Applied Intelligence, 0, , 1.	3.3	0
48	Generalising combinatorial discriminant analysis through conditioning truncated Rayleigh flow. Knowledge and Information Systems, 2021, 63, 2189-2208.	2.1	0