Lin Li

List of Publications by Year
in descending order

69 papers	2,282 citations	218592 26 h-index	223716 46 g-index
69 all docs	69 docs citations	69 times ranked	1997 citing authors

#	ARTICLE	IF	CITATIONS
1	Energy requirements evaluation of milling machines based on thermal Âequilibrium and empirical modelling. Journal of Cleaner Production, 2013, 52, 113-121.	4.6	178
2	Time-of-use based electricity demand response for sustainable manufacturing systems. Energy, 2013, 63, 233-244.	4.5	172
3	Data driven bottleneck detection of manufacturing systems. International Journal of Production Research, 2009, 47, 5019-5036.	4.9	143
4	A novel 6-axis hybrid additive-subtractive manufacturing process: Design and case studies. Journal of Manufacturing Processes, 2018, 33, 150-160.	2.8	109
5	Cost-effective supply chain for electric vehicle battery remanufacturing. Applied Energy, 2018, 226, 277-286.	5.1	97
6	Time-of-use electricity pricing for industrial customers: A survey of U.S. utilities. Applied Energy, 2015, 149, 89-103.	5.1	91
7	â€œJust-for-Peakâ€•buffer inventory for peak electricity demand reduction of manufacturing systems. International Journal of Production Economics, 2013, 146, 178-184.	5.1	85
8	Mechanical property modeling of photosensitive liquid resin in stereolithography additive manufacturing: Bridging degree of cure with tensile strength and hardness. Materials and Design, 2019, 162, 418-428.	3.3	85
9	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
10	Energy Consumption Modeling of Stereolithographyâ€Based Additive Manufacturing Toward Environmental Sustainability. Journal of Industrial Ecology, 2017, 21, S168.	2.8	67
11	Heterogeneous Redundancy Allocation for Series-Parallel Multi-State Systems Using Hybrid Particle Swarm Optimization and Local Search. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 464-474.	3.4	63
12	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
13	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
14	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
15	Reliability and covariance estimation of weighted k-out-of-n multi-state systems. European Journal of Operational Research, 2012, 221, 138-147.	3.5	43
16	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
17	Critical peak electricity pricing for sustainable manufacturing: Modeling and case studies. Applied Energy, 2016, 175, 40-53.	5.1	41
18	Total volatile organic compound emission evaluation and control for stereolithography additive manufacturing process. Journal of Cleaner Production, 2018, 170, 1268-1278.	4.6	41

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19	Integrated Electricity and Natural Gas Demand Response for Manufacturers in the Smart Grid. IEEE Transactions on Smart Grid, 2019, 10, 4164-4174.	6.2	39
20	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
21	Power consumption estimation for mask image projection stereolithography additive manufacturing using machine learning based approach. Journal of Cleaner Production, 2020, 251, 119710.	4.6	36
22	Time-of-use based electricity cost of manufacturing systems: Modeling and monotonicity analysis. International Journal of Production Economics, 2014, 156, 246-259.	5.1	35
23	A PSO algorithm for constrained redundancy allocation in multi-state systems with bridge topology. Computers and Industrial Engineering, 2014, 68, 13-22.	3.4	34
24	A novel prediction model for thin plate deflections considering milling residual stresses. International Journal of Advanced Manufacturing Technology, 2014, 74, 37-45.	1.5	30
25	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
26	A comprehensive evaluation for different post-curing methods used in stereolithography additive manufacturing. Journal of Manufacturing Processes, 2020, 56, 867-877.	2.8	29
27	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
28	Study of the relationship between dimensional performance and manufacturing cost in fused deposition modeling. Rapid Prototyping Journal, 2018, 24, 395-408.	1.6	26
29	Cost modeling and analysis for Mask Image Projection Stereolithography additive manufacturing: Simultaneous production with mixed geometries. International Journal of Production Economics, 2018, 206, 146-158.	5.1	25
30	Modeling and economic optimization of cellulosic biofuel supply chain considering multiple conversion pathways. Applied Energy, 2021, 281, 116059.	5.1	24
31	System-level energy consumption modeling and optimization for cellulosic biofuel production. Applied Energy, 2018, 226, 935-946.	5.1	23
32	A Novel Modeling Method for Both Steady-State and Transient Analyses of Serial Bernoulli Production Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 97-108.	5.9	21
33	Modeling and characterization of shape memory properties and decays for 4D printed parts using stereolithography. Materials and Design, 2021, 203, 109617.	3.3	20
34	Modeling of Bernoulli production line with the rework loop for transient and steady-state analysis. Journal of Manufacturing Systems, 2017, 44, 22-41.	7.6	19
35	Theoretical modelling and prediction of surface roughness for hybrid additive–subtractive manufacturing processes. IISE Transactions, 2019, 51, 124-135.	1.6	19
36	Demand response for manufacturing systems considering the implications of fast-charging battery powered material handling equipment. Applied Energy, 2022, 310, 118550.	5.1	19

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37	Li-ion battery dynamics model parameter estimation using datasheets and particle swarm optimization. International Journal of Energy Research, 2016, 40, 1050-1061.	2.2	18
38	Demand Response-Driven Production and Maintenance Decision-Making for Cost-Effective Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	18
39	Energy‑efficient scheduling for sustainable manufacturing systems with renewable energy resources. Naval Research Logistics, 2019, 66, 154-173.	1.4	17
40	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
41	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
42	Energy Consumption Modeling of 4D Printing Thermal-responsive Polymers with Integrated Compositional Design for Material. Additive Manufacturing, 2020, 34, 101223.	1.7	15
43	System-level cost evaluation for economic viability of cellulosic biofuel manufacturing. Applied Energy, 2017, 203, 711-722.	5.1	14
44	Experimental and theoretical stress analysis for an interface stress model of single-L adhesive joints between CFRP and aluminum components. International Journal of Adhesion and Adhesives, 2014, 50, 37-44.	1.4	13
45	Manufacturing profit maximization under time-varying electricity and labor pricing. Computers and Industrial Engineering, 2017, 104, 23-34.	3.4	13
46	A game-theoretic approach to optimize the Time-of-Use pricing considering customer behaviors. International Journal of Production Economics, 2018, 201, 75-88.	5.1	13
47	A hybrid physics-based and data-driven approach for characterizing porosity variation and filament bonding in extrusion-based additive manufacturing. Additive Manufacturing, 2020, 36, 101399.	1.7	12
48	CPS-enabled and knowledge-aided demand response strategy for sustainable manufacturing. Advanced Engineering Informatics, 2022, 52, 101534.	4.0	12
49	Real time electricity demand response for sustainable manufacturing systems: Challenges and a case study. , 2012, , .		11
50	Joint Asymmetric Tolerance Design and Manufacturing Decision-Making for Additive Manufacturing Processes. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1259-1270.	3.4	11
51	Towards biofuel generation III+: A sustainable industrial symbiosis design of co-producing algal and cellulosic biofuels. Journal of Cleaner Production, 2021, 306, 127144.	4.6	10
52	A new machine learning based geometry feature extraction approach for energy consumption estimation in mask image projection stereolithography. Procedia CIRP, 2019, 80, 741-745.	1.0	9
53	Simulation-Based Energy Efficiency Improvement for Sustainable Manufacturing Systems. , 2012, , .		8
54	Form Tolerance Evaluation of Toroidal Surfaces Using Particle Swarm Optimization. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	1.3	7

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55	Vehicle-to-manufacturing (V2M) system: A novel approach to improve energy demand flexibility for demand response towards sustainable manufacturing. Applied Energy, 2022, 323, 119552.	5.1	7
56	Order-oriented cooperative sequencing optimisation in multi-mix-model assembly lines. International Journal of Production Research, 2012, 50, 7198-7209.	4.9	6
57	Derivation of Reliability and Variance Estimates for Multi-State Systems With Binary-Capacitated Components. IEEE Transactions on Reliability, 2012, 61, 549-559.	3.5	6
58	Integrated Analytical Modeling for Production Systems Coupled With Material Handling Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1067-1076.	5.9	6
59	Uncertainty Importance Measure of Individual Components in Multi-State Systems. IEEE Transactions on Reliability, 2015, 64, 772-783.	3.5	6
60	Techno-economic modeling of 4D printing with thermo-responsive materials towards desired shape memory performance. IISE Transactions, 2022, 54, 1047-1059.	1.6	6
61	Joint Production and Energy Modeling of Sustainable Manufacturing Systems: Challenges and Methods. , 2014, , .		5
62	Joint Maintenance and Energy Management of Sustainable Manufacturing Systems. , 2015, , .		5
63	A new modeling method for both transient and steady-state analyses of inhomogeneous assembly systems. Journal of Manufacturing Systems, 2018, 49, 46-60.	7.6	5
64	Anvil state identification based on acceleration signals in ultrasonic metal welding of lithium batteries. Journal of Manufacturing Processes, 2021, 70, 67-77.	2.8	4
65	Data driven production runtime energy control of manufacturing systems. , 2015, , .		3
66	Dimensional Performance of As-Built Assemblies in Polyjet Additive Manufacturing Process. , 2017, , .		3
67	Simulation-Based Optimization of Electricity Demand Response for Sustainable Manufacturing Systems. , 2014, , .		1
68	Framework and Sensitivity Analysis of Joint Energy and Maintenance Planning Considering Production Throughput Requirements. , 2017, , .		1
69	Efficiency-aware process planning for mask image projection stereolithography: Leveraging dynamic time of exposure. Additive Manufacturing, 2020, 36, 101407.	1.7	1