

# Liang Gao

## 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.

622  
papers

14,520  
citations

60  
h-index

92  
g-index

668  
ext. papers

18,867  
ext. citations

4.9  
avg, IF

7.79  
L-index

#	Paper	IF	Citations
622	Multiple surrogates and offspring-assisted differential evolution for high-dimensional expensive problems. <i>Information Sciences</i> , <b>2022</b> , 592, 174-191	7.7	1
621	A Graph Guided Convolutional Neural Network for Surface Defect Recognition. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-13	4.9	
620	L2-Norm Shapelet Dictionary Learning-Based Bearing-Fault Diagnosis in Uncertain Working Conditions. <i>IEEE Sensors Journal</i> , <b>2022</b> , 22, 2647-2657	4	1
619	A multiscale topological design method of geometrically asymmetric porous sandwich structures for minimizing dynamic compliance. <i>Materials and Design</i> , <b>2022</b> , 214, 110404	8.1	2
618	Self-regulated bi-partitioning evolution for many-objective optimization. <i>Information Sciences</i> , <b>2022</b> , 589, 827-848	7.7	1
617	Isogeometric topology and shape optimization for composite structures using level-sets and adaptive Gauss quadrature. <i>Composite Structures</i> , <b>2022</b> , 285, 115263	5.3	1
616	An improved genetic algorithm for flexible job shop scheduling problem considering reconfigurable machine tools with limited auxiliary modules. <i>Journal of Manufacturing Systems</i> , <b>2022</b> , 62, 650-667	9.1	4
615	Kriging-assisted design of functionally graded cellular structures with smoothly-varying lattice unit cells. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2022</b> , 390, 114466	5.7	4
614	A Pareto-based collaborative multi-objective optimization algorithm for energy-efficient scheduling of distributed permutation flow-shop with limited buffers. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2022</b> , 74, 102277	9.2	10
613	Lightweight convolutional neural network with knowledge distillation for cervical cells classification. <i>Biomedical Signal Processing and Control</i> , <b>2022</b> , 71, 103177	4.9	1
612	Biologically Inspired Machine Learning-Based Trajectory Analysis in Intelligent Dispatching Energy Storage System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-10	6.1	
611	Knowledge transfer in fault diagnosis of rotary machines. <i>IET Collaborative Intelligent Manufacturing</i> , <b>2022</b> , 4, 17-34	2	6
610	Integrated Production and Transportation Scheduling Method in Hybrid Flow Shop. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2022</b> , 35,	2.5	1
609	Evolutionary topology optimization for continuum structures using isogeometric analysis. <i>Structural and Multidisciplinary Optimization</i> , <b>2022</b> , 65, 1	3.6	0
608	Ultra-broadband edge-state pair for zigzag-interfaced valley Hall insulators. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2022</b> , 65, 1	3.6	0
607	Online Gait Generation Method Based on Neural Network for Humanoid Robot Fast Walking on Uneven Terrain. <i>International Journal of Control, Automation and Systems</i> , <b>2022</b> , 20, 941-955	2.9	0
606	Quantile-based topology optimization under uncertainty using Kriging metamodel. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2022</b> , 393, 114690	5.7	0

605	A hash map-based memetic algorithm for the distributed permutation flowshop scheduling problem with preventive maintenance to minimize total flowtime. <i>Knowledge-Based Systems</i> , <b>2022</b> , 242, 108413	7.3	1
604	An adaptive boosting charging strategy optimization based on thermoelectric-aging model, surrogates and multi-objective optimization. <i>Applied Energy</i> , <b>2022</b> , 312, 118795	10.7	6
603	Design of multiphase auxetic metamaterials by a parametric color level set method. <i>Composite Structures</i> , <b>2022</b> , 287, 115385	5.3	0
602	A novel dual-stream self-attention neural network for remaining useful life estimation of mechanical systems. <i>Reliability Engineering and System Safety</i> , <b>2022</b> , 222, 108444	6.3	4
601	Marching cubes-based isogeometric topology optimization method with parametric level set. <i>Applied Mathematical Modelling</i> , <b>2022</b> , 107, 275-295	4.5	0
600	An efficient critical path based method for permutation flow shop scheduling problem. <i>Journal of Manufacturing Systems</i> , <b>2022</b> , 63, 344-353	9.1	0
599	On the Indispensability of Isogeometric Analysis in Topology Optimization for Smooth or Binary Designs. <i>Symmetry</i> , <b>2022</b> , 14, 845	2.7	0
598	A new structural uncertainty analysis method based on polynomial expansions. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 427, 127122	2.7	
597	A Matheuristic Approach for the No-Wait Flowshop Scheduling Problem with Makespan Criterion. <i>Symmetry</i> , <b>2022</b> , 14, 913	2.7	0
596	Self-organizing Cascade Neural Network Based on Differential Evolution with Better and Nearest Option for System Modeling. <i>International Journal of Control, Automation and Systems</i> , <b>2022</b> , 20, 1706-1722	2.9	
595	A multiobjective memetic algorithm for integrated process planning and scheduling problem in distributed heterogeneous manufacturing systems. <i>Memetic Computing</i> , <b>2022</b> , 14, 193-209	3.4	
594	A Hybrid Algorithm with a New Neighborhood Structure for Job Shop Scheduling Problems. <i>Computers and Industrial Engineering</i> , <b>2022</b> , 108205	6.4	1
593	Graded infill design within free-form surfaces by conformal mapping. <i>International Journal of Mechanical Sciences</i> , <b>2022</b> , 107307	5.5	0
592	A one-class Shapelet dictionary learning method for wind turbine bearing anomaly detection. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 197, 111318	4.6	1
591	An efficient self-adaptive artificial bee colony algorithm for the distributed resource-constrained hybrid flowshop problem. <i>Computers and Industrial Engineering</i> , <b>2022</b> , 169, 108200	6.4	0
590	Informative knowledge distillation for image anomaly segmentation. <i>Knowledge-Based Systems</i> , <b>2022</b> , 248, 108846	7.3	3
589	Intelligent fault diagnosis of machine under noisy environment using ensemble orthogonal contractive auto-encoder. <i>Expert Systems With Applications</i> , <b>2022</b> , 203, 117408	7.8	
588	A Surrogate-Assisted Hybrid Swarm Optimization Algorithm for High-Dimensional Computationally Expensive Problems. <i>Swarm and Evolutionary Computation</i> , <b>2022</b> , 101096	9.8	0

587	A Hierarchical Training-Convolutional Neural Network for Imbalanced Fault Diagnosis in Complex Equipment. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	3
586	An Effective Iterated Greedy Algorithm for a Robust Distributed Permutation Flowshop Problem With Carryover Sequence-Dependent Setup Time. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-12	7.3	2
585	Robustly printable freeform thermal metamaterials. <i>Nature Communications</i> , <b>2021</b> , 12, 7228	17.4	8
584	Optimization for Liquid Cooling Cylindrical Battery Thermal Management System Based on Gaussian Process Model. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2021</b> , 13,	1.9	9
583	A Framework of Optimal Design of Thermal Management System for Lithium-Ion Battery Pack Using Multi-Objectives Optimization. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2021</b> , 18,	2	3
582	A Comprehensive Flowrate Optimization Design for a Novel Air-Liquid Cooling Coupled Battery Thermal Management System. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2021</b> , 18,	2	7
581	A Hybrid Evolutionary Algorithm Using Two Solution Representations for Hybrid Flow-Shop Scheduling Problem. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
580	A Thompson Sampling Efficient Multi-Objective Optimization Algorithm (TSEMO) for Lithium-Ion Battery Liquid-Cooled Thermal Management System: Study of Hydrodynamic, Thermodynamic, and Structural Performance. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2021</b> , 18,	2	1
579	An Evolution Strategy Approach for the Distributed Blocking Flowshop Scheduling Problem. <i>Computers and Industrial Engineering</i> , <b>2021</b> , 107832	6.4	3
578	Exploiting active subspaces of hyperparameters for efficient high-dimensional Kriging modeling. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 108643	7.8	0
577	An Early Fault Detection Method of Rotating Machines Based on Unsupervised Sequence Segmentation Convolutional Neural Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	6
576	A New Semi-Supervised Fault Diagnosis Method via Deep CORAL and Transfer Component Analysis. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-10	4.1	1
575	An effective hybrid collaborative algorithm for energy-efficient distributed permutation flow-shop inverse scheduling. <i>Future Generation Computer Systems</i> , <b>2021</b> ,	7.5	22
574	Deep-learning-based isogeometric inverse design for tetra-chiral auxetics. <i>Composite Structures</i> , <b>2021</b> , 280, 114808	5.3	1
573	A discrete artificial bee colony algorithm for distributed hybrid flowshop scheduling problem with sequence-dependent setup times. <i>International Journal of Production Research</i> , <b>2021</b> , 59, 3880-3899	7.8	22
572	A Modified Genetic Algorithm With New Encoding and Decoding Methods for Integrated Process Planning and Scheduling Problem. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 4429-4438	10.2	15
571	A discrete artificial bee colony algorithm for the distributed heterogeneous no-wait flowshop scheduling problem. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 100, 106946	7.5	11
570	A hybrid level set method for the integrated optimization of structural topology and multicomponent layout. <i>International Journal for Numerical Methods in Engineering</i> , <b>2021</b> , 122, 2802-2828	2.4	0

569	Time Series Classification by Shapelet Dictionary Learning with SVM-Based Ensemble Classifier. <i>Computational Intelligence and Neuroscience</i> , <b>2021</b> , 2021, 1-13	3	0
568	Global and local Kriging limit state approximation for time-dependent reliability-based design optimization through wrong-classification probability. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 208, 107431	6.3	10
567	Design and experimental verification of self-supporting topologies for selective laser melting. <i>Thin-Walled Structures</i> , <b>2021</b> , 161, 107419	4.7	0
566	Energy-efficient distributed heterogeneous welding flow shop scheduling problem using a modified MOEA/D. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 62, 100858	9.8	12
565	Full-scale topology optimization for fiber-reinforced structures with continuous fiber paths. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 377, 113668	5.7	19
564	An Effective Deep Neural Network Method for Prediction of Battery State at Cell and Module Level. <i>Energy Technology</i> , <b>2021</b> , 9, 2100048	3.5	3
563	A new level set based multi-material topology optimization method using alternating active-phase algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 377, 113674	5.7	7
562	Development of the gas puffing imaging diagnostic on J-TEXT tokamak. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 043503	1.7	
561	Progressive design of gradually stiffer metamaterial using surrogate model. <i>Composite Structures</i> , <b>2021</b> , 264, 113715	5.3	2
560	A Review on Recent Advances in Vision-based Defect Recognition towards Industrial Intelligence. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 62, 753-753	9.1	12
559	Failure analysis of bio-inspired corrugated sandwich structures fabricated by laser powder bed fusion under three-point bending. <i>Composite Structures</i> , <b>2021</b> , 263, 113724	5.3	8
558	Development of Admittance Control Method with Parameter Self-optimization for Hydraulic Series Elastic Actuator. <i>International Journal of Control, Automation and Systems</i> , <b>2021</b> , 19, 2357-2372	2.9	1
557	A comparative analysis of the queuing search algorithm, the sine-cosine algorithm, the ant lion algorithm to determine the optimal weight design problem of a spur gear drive system. <i>Materialpruefung/Materials Testing</i> , <b>2021</b> , 63, 442-447	1.9	1
556	A Novel MILP Model Based on the Topology of a Network Graph for Process Planning in an Intelligent Manufacturing System. <i>Engineering</i> , <b>2021</b> , 7, 807-817	9.7	5
555	A Kriging-assisted sampling method for reliability analysis of structures with hybrid uncertainties. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 210, 107552	6.3	3
554	Recent Advancements in Battery Management System for Li-Ion Batteries of Electric Vehicles: Future Role of Digital Twin, Cyber-Physical Systems, Battery Swapping Technology, and Nondestructive Testing. <i>Energy Technology</i> , <b>2021</b> , 9, 2000984	3.5	11
553	An Adaptive Iterated Greedy algorithm for distributed mixed no-idle permutation flowshop scheduling problems. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 63, 100874	9.8	9
552	A hybrid Jaya algorithm for solving flexible job shop scheduling problem considering multiple critical paths. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 60, 298-311	9.1	9

551	Local search-based metaheuristics for the robust distributed permutation flowshop problem. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 105, 107247	7.5	7
550	Disassembly sequence planning based on a modified grey wolf optimizer. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 116, 3731-3750	3.2	0
549	State-of-charge prediction of lithium ion battery through multivariate adaptive recursive spline and principal component analysis. <i>Energy Storage</i> , <b>2021</b> , 3, e147	2.8	3
548	Constrained differential evolution using halfspace partition for optimization problems. <i>Journal of Intelligent Manufacturing</i> , <b>2021</b> , 32, 157-178	6.7	5
547	A New Approach to Solve Uncertain Multidisciplinary Design Optimization Based on Conditional Value at Risk. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 356-368	4.9	9
546	Battery pack recycling challenges for the year 2030: Recommended solutions based on intelligent robotics for safe and efficient disassembly, residual energy detection, and secondary utilization. <i>Energy Storage</i> , <b>2021</b> , 3, e190	2.8	5
545	A Surrogate-Assisted Multiswarm Optimization Algorithm for High-Dimensional Computationally Expensive Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1390-1402	10.2	21
544	Interval Type-2 Fuzzy Logic PID Controller Based on Differential Evolution with Better and Nearest Option for Hydraulic Serial Elastic Actuator. <i>International Journal of Control, Automation and Systems</i> , <b>2021</b> , 19, 1113-1132	2.9	4
543	A new graph-based semi-supervised method for surface defect classification. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2021</b> , 68, 102083	9.2	18
542	An indicator and adaptive region division based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 99, 106872	7.5	4
541	A comparative study of pre-screening strategies within a surrogate-assisted multi-objective algorithm framework for computationally expensive problems. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 4387-4416	4.8	2
540	A Generative Adversarial Network Based Deep Learning Method for Low-Quality Defect Image Reconstruction and Recognition. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3231-3240	11.9	19
539	Two infill criteria driven surrogate-assisted multi-objective evolutionary algorithms for computationally expensive problems with medium dimensions. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 60, 100774	9.8	5
538	An improved simulated annealing algorithm based on residual network for permutation flow shop scheduling. <i>Complex &amp; Intelligent Systems</i> , <b>2021</b> , 7, 1173-1183	7.1	9
537	Effective constructive heuristics and discrete bee colony optimization for distributed flowshop with setup times. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 97, 104016	7.2	35
536	Sustainable scheduling of distributed permutation flow-shop with non-identical factory using a knowledge-based multi-objective memetic optimization algorithm. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 60, 100803	9.8	23
535	Mathematical modeling and a hybrid evolutionary algorithm for process planning. <i>Journal of Intelligent Manufacturing</i> , <b>2021</b> , 32, 781-797	6.7	11
534	An improved iterated greedy algorithm for the distributed assembly permutation flowshop scheduling problem. <i>Computers and Industrial Engineering</i> , <b>2021</b> , 152, 107021	6.4	18

533	Intelligent optimization of bioleaching process for waste lithium-ion batteries: An application of support vector regression approach. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 6152-6162	4.5	2
532	A two-layer surrogate-assisted differential evolution with better and nearest option for optimizing the spring of hydraulic series elastic actuator. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 100, 107001	7.5	0
531	An experimental investigation for a hybrid phase change material-liquid cooling strategy to achieve high-temperature uniformity of Li-ion battery module under fast charging. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 6198-6212	4.5	7
530	An effective multi-start iterated greedy algorithm to minimize makespan for the distributed permutation flowshop scheduling problem with preventive maintenance. <i>Expert Systems With Applications</i> , <b>2021</b> , 169, 114495	7.8	29
529	A Novel MOGA approach for power saving strategy and optimization of maximum temperature and maximum pressure for liquid cooling type battery thermal management system. <i>International Journal of Green Energy</i> , <b>2021</b> , 18, 80-89	3	6
528	A discrete whale swarm algorithm for hybrid flow-shop scheduling problem with limited buffers. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2021</b> , 68, 102081	9.2	9
527	A probability feasible region enhanced important boundary sampling method for reliability-based design optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2021</b> , 63, 341-355	3.6	3
526	Multidisciplinary optimal design of prismatic lithium-ion battery with an improved thermal management system for electric vehicles. <i>Energy Storage</i> , <b>2021</b> , 3, e217	2.8	1
525	A Genetic Algorithm-Based Ensemble Convolutional Neural Networks for Defect Recognition with Small-Scale Samples. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 390-398	0.9	
524	Energy-Efficient Robotic Parallel Disassembly Sequence Planning for End-of-Life Products. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-9	4.9	1
523	An Effective Cooperative Co-Evolutionary Algorithm for Distributed Flowshop Group Scheduling Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	10
522	Industrial Image Anomaly Localization Based on Gaussian Clustering of Pre-trained Feature. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4
521	A Knowledge-Based Multiobjective Memetic Algorithm for Green Job Shop Scheduling With Variable Machining Speeds. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	9
520	Partial Distillation of Deep Feature for Unsupervised Image Anomaly Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 238-250	0.9	
519	A Discrete Artificial Bee Colony Algorithm for Multiobjective Disassembly Line Balancing of End-of-Life Products. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	7
518	An Improved Genetic Algorithm for Distributed Job Shop Scheduling Problem. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 37-47	0.9	0
517	Predictive Modeling With an Adaptive Unsupervised Broad Transfer Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	4
516	Quantum effects of gas flow in nanochannels. <i>Nanotechnology Reviews</i> , <b>2021</b> , 10, 254-263	6.3	0

515	Surrogate model-based heat dissipation optimization of air-cooling battery packs involving herringbone fins. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8508-8523	4.5	9
514	A Deep Lifelong Learning Method for Digital Twin-Driven Defect Recognition With Novel Classes. <i>Journal of Computing and Information Science in Engineering</i> , <b>2021</b> , 21,	2.4	5
513	A Threshold-Control Generative Adversarial Network Method for Intelligent Fault Diagnosis. <i>Complex System Modeling and Simulation</i> , <b>2021</b> , 1, 55-64		3
512	Compliant Bipedal Walking Based on Variable Spring-Loaded Inverted Pendulum Model with Finite-sized Foot <b>2021</b> ,		1
511	A genetic simulated annealing algorithm for parallel partial disassembly line balancing problem. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 107, 107404	7.5	19
510	Ensemble of Dynamic Resource Allocation Strategies for Decomposition-Based Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 710-723	15.6	5
509	IgaTop: an implementation of topology optimization for structures using IGA in MATLAB. <i>Structural and Multidisciplinary Optimization</i> , <b>2021</b> , 64, 1669-1700	3.6	3
508	An Iterative Two-Phase Optimization Method Based on Divide and Conquer Framework for Integrated Scheduling of Multiple UAVs. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 5926-5938	6.1	9
507	A Novel Design Method for Energy Absorption Property of Chiral Mechanical Metamaterials. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
506	A multi-representation-based domain adaptation network for fault diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 182, 109650	4.6	8
505	An isogeometric approach to topological optimization design of auxetic composites with tri-material micro-architectures. <i>Composite Structures</i> , <b>2021</b> , 271, 114163	5.3	4
504	A population-based iterated greedy algorithm to minimize total flowtime for the distributed blocking flowshop scheduling problem. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 104, 104375	7.2	3
503	A Systematic Literature Review on Particle Swarm Optimization Techniques for Medical Diseases Detection. <i>Computational and Mathematical Methods in Medicine</i> , <b>2021</b> , 2021, 5990999	2.8	25
502	Multi-objective design optimization of battery thermal management system for electric vehicles. <i>Applied Thermal Engineering</i> , <b>2021</b> , 196, 117235	5.8	3
501	Design of graded lattice sandwich structures by multiscale topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 384, 113949	5.7	10
500	Mathematical model and discrete artificial Bee Colony algorithm for distributed integrated process planning and scheduling. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 61, 300-310	9.1	3
499	A new Feature-Fusion method based on training dataset prototype for surface defect recognition. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 50, 101392	7.4	2
498	Production scheduling for blocking flowshop in distributed environment using effective heuristics and iterated greedy algorithm. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2021</b> , 71, 102155	9.2	11



497	Heat dissipation analysis and multi-objective optimization of a permanent magnet synchronous motor using surrogate assisted method. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101203	5.6	6
496	Robust topology optimization for fiber-reinforced composite structures under loading uncertainty. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 384, 113935	5.7	6
495	Energy-Efficient Scheduling of Distributed Flow Shop With Heterogeneous Factories: A Real-World Case From Automobile Industry in China. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6687-6696 <sup>11.9</sup>	11.9	25
494	Hyperplane-driven and projection-assisted search for solving many-objective optimization problems. <i>Information Sciences</i> , <b>2021</b> , 574, 394-412	7.7	3
493	An effective iterated greedy algorithm for PCBs grouping problem to minimize setup times. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 112, 107830	7.5	1
492	A New Reinforcement Learning Based Learning Rate Scheduler for Convolutional Neural Network in Fault Classification. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 12890-12900	8.9	20
491	A single-loop Kriging coupled with subset simulation for time-dependent reliability analysis. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 216, 107931	6.3	8
490	Topology optimization of arbitrary-shape multi-phase structure with structured meshes based on a virtual phase method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 387, 114138	5.7	0
489	Convolutional Neural Network With Automatic Learning Rate Scheduler for Fault Classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	14
488	Toward Safe Human-Robot Interaction: A Fast-Response Admittance Control Method for Series Elastic Actuator. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-14	4.9	1
487	A New Graph-Based Method for Class Imbalance in Surface Defect Recognition. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-16	5.2	1
486	A hybrid disassembly framework for disassembly of electric vehicle batteries. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8073-8082	4.5	6
485	Topology optimization of irregular flow domain by parametric level set method in unstructured mesh. <i>Journal of Computational Design and Engineering</i> , <b>2021</b> , 9, 100-113	4.6	
484	A new ensemble convolutional neural network with diversity regularization for fault diagnosis. <i>Journal of Manufacturing Systems</i> , <b>2020</b> ,	9.1	7
483	A Transitional Connection Method for the Design of Functionally Graded Cellular Materials. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7449	2.6	2
482	Chaotic-based grey wolf optimizer for numerical and engineering optimization problems. <i>Memetic Computing</i> , <b>2020</b> , 12, 371-398	3.4	10
481	Numerical and experimental investigation of state of health of Li-ion battery. <i>International Journal of Green Energy</i> , <b>2020</b> , 17, 510-520	3	4
480	A Novel Point Cloud Encoding Method Based on Local Information for 3D Classification and Segmentation. <i>Sensors</i> , <b>2020</b> , 20,	3.8	6

479	Effective Methods for Integrated Process Planning and Scheduling. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> ,	0.2	1
478	Robust topology optimization of thermoelastic metamaterials considering hybrid uncertainties of material property. <i>Composite Structures</i> , <b>2020</b> , 248, 112477	5.3	22
477	A new hybrid reliability-based design optimization method under random and interval uncertainties. <i>International Journal for Numerical Methods in Engineering</i> , <b>2020</b> , 121, 4435-4457	2.4	19
476	Multidisciplinary robust design optimization considering parameter and metamodeling uncertainties. <i>Engineering With Computers</i> , <b>2020</b> , 1	4.5	10
475	A framework based on big data for intelligent monitoring of battery packs. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 463, 012158	0.3	1
474	Topology-optimized lattice structures with simultaneously high stiffness and light weight fabricated by selective laser melting: Design, manufacturing and characterization. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 56, 1166-1177	5	28
473	Modified honey bees mating optimization algorithm for multi-objective uncertain integrated process planning and scheduling problem. <i>International Journal of Advanced Robotic Systems</i> , <b>2020</b> , 17, 172988142092523	1.4	4
472	Ensemble deep contractive auto-encoders for intelligent fault diagnosis of machines under noisy environment. <i>Knowledge-Based Systems</i> , <b>2020</b> , 196, 105764	7.3	24
471	A system active learning Kriging method for system reliability-based design optimization with a multiple response model. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 199, 106935	6.3	71
470	Multi-objective based scheduling algorithm for sudden drinking water contamination incident. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 55, 100674	9.8	17
469	Study on effect of diverse air inlet arrangement on thermal management of cylindrical lithium-ion cells. <i>Heat Transfer</i> , <b>2020</b> , 49, 4626-4656	3.1	1
468	Sampling-based system reliability-based design optimization using composite active learning Kriging. <i>Computers and Structures</i> , <b>2020</b> , 239, 106321	4.5	4
467	An effective discrete artificial bee colony algorithm for multi-AGVs dispatching problem in a matrix manufacturing workshop. <i>Expert Systems With Applications</i> , <b>2020</b> , 161, 113675	7.8	19
466	Explicit topology optimization of novel polyline-based core sandwich structures using surrogate-assisted evolutionary algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 369, 113215	5.7	6
465	Ingeniously introducing of boron to adjust hetero-atoms and their bonding with cobalt for improving the catalysis of oxygen reduction reaction. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 289, 121523 <sup>3-3</sup>		1
464	Surrogate based multi-objective design optimization of lithium-ion battery air-cooled system in electric vehicles. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101645	7.8	21
463	An improved artificial bee colony algorithm for distributed heterogeneous hybrid flowshop scheduling problem with sequence-dependent setup times. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 147, 106638	6.4	33
462	Illustration of experimental, machine learning, and characterization methods for study of performance of Li-ion batteries. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9513-9526	4.5	9

461	EEK-SYS: System reliability analysis through estimation error-guided adaptive Kriging approximation of multiple limit state surfaces. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 198, 106908	6.3	18
460	Ensemble of metaheuristics for energy-efficient hybrid flowshops: Makespan versus total energy consumption. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 54, 100660	9.8	11
459	An adaptive dual-population evolutionary paradigm with adversarial search: Case study on many-objective service consolidation. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 90, 106160	7.5	4
458	Discriminative stacked autoencoder for feature representation and classification. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	1
457	Isogeometric topology optimization for computational design of re-entrant and chiral auxetic composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 362, 112876	5.7	23
456	An experimental investigation of liquid cooling scheduling for a battery module. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3020-3032	4.5	10
455	A NURBS-based Multi-Material Interpolation (N-MMI) for isogeometric topology optimization of structures. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 81, 818-843	4.5	24
454	Maximizing natural frequencies of inhomogeneous cellular structures by Kriging-assisted multiscale topology optimization. <i>Computers and Structures</i> , <b>2020</b> , 230, 106197	4.5	56
453	A multi-objective algorithm for U-shaped disassembly line balancing with partial destructive mode. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12715-12736	4.8	11
452	Optimization of expensive black-box problems via Gradient-enhanced Kriging. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 362, 112861	5.7	12
451	A design framework for gradually stiffer mechanical metamaterial induced by negative Poisson's ratio property. <i>Materials and Design</i> , <b>2020</b> , 192, 108751	8.1	32
450	An energy-efficient bi-objective no-wait permutation flowshop scheduling problem to minimize total tardiness and total energy consumption. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 145, 106431	6.4	23
449	A novel robotic grasp detection method based on region proposal networks. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 65, 101963	9.2	21
448	Intelligent optimization of process conditions for maximum metal recovery from spent zinc-manganese batteries. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 463, 012160	0.3	1
447	Efficient battery thermal management system design to ensure fast charging in extreme cold conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 463, 012161	0.3	
446	A new local update-based method for reliability-based design optimization. <i>Engineering With Computers</i> , <b>2020</b> , 37, 3591	4.5	4
445	Electrochemical Performance Enhancement of Sodium-Ion Batteries Fabricated With NaNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> Cathodes Using Support Vector Regression-Simplex Algorithm Approach. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2020</b> , 17,	2	13
444	A Novel Approach for Enhancing Thermal Performance of Battery Modules Based on Finite Element Modeling and Predictive Modeling Mechanism. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2020</b> , 17,	2	7

443	Battery Thermal Management System Design: Role of Influence of Nanofluids, Flow Directions, and Channels. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2020</b> , 17,	2	3
442	Heat Transfer Efficiency Enhancement of Lithium-Ion Battery Packs by Using Novel Design of Herringbone Fins. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2020</b> , 17,	2	5
441	Anomalies in Special Permutation Flow Shop Scheduling Problems. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2020</b> , 33,	2.5	4
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439	Review for Integrated Process Planning and Scheduling. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 47-59	0.2	0
438	Multi-objective optimisation framework of genetic programming for investigation of bullwhip effect and net stock amplification for three-stage supply chain systems. <i>International Journal of Bio-Inspired Computation</i> , <b>2020</b> , 16, 241	2.9	3
437	A Hybrid Genetic Algorithm with Variable Neighborhood Search for Dynamic IPPS. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 429-453	0.2	
436	A Hybrid Intelligent Algorithm and Rescheduling Technique for Dynamic JSP. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 345-375	0.2	
435	A Modified Genetic Algorithm Based Approach for IPPS. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 209-233	0.2	0
434	Mathematical Modeling and Evolutionary Algorithm-Based Approach for IPPS. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 167-189	0.2	
433	A Multi-objective GA Based on Immune and Entropy Principle for FJSP. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 279-300	0.2	
432	GEP-Based Reactive Scheduling Policies for Dynamic FJSP with Job Release Dates. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 405-428	0.2	1
431	An Agent-Based Approach for IPPS. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 191-208	0.2	2
430	Introduction for Integrated Process Planning and Scheduling. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 1-15	0.2	
429	A feature extraction and classification algorithm based on improved sparse auto-encoder for round steel surface defects. <i>Mathematical Biosciences and Engineering</i> , <b>2020</b> , 17, 5369-5394	2.1	0
428	A Hybrid Algorithm for Job Shop Scheduling Problem. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 107-131	0.2	
427	An Efficient Modified Particle Swarm Optimization Algorithm for Process Planning. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 81-106	0.2	
426	An Effective Genetic Algorithm for Multi-objective IPPS with Various Flexibilities in Process Planning. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 301-322	0.2	

425	Application of Game Theory-Based Hybrid Algorithm for Multi-objective IPPS. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 323-343	0.2	
424	A Hybrid Genetic Algorithm and Tabu Search for Multi-objective Dynamic JSP. <i>Engineering Applications of Computational Methods</i> , <b>2020</b> , 377-403	0.2	2
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419	Multi-objective optimization of lithium-ion battery pack casing for electric vehicles: Key role of materials design and their influence. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9414-9437	4.5	10
418	Multi-objective optimal design of hybrid renewable energy system under multiple scenarios. <i>Renewable Energy</i> , <b>2020</b> , 151, 226-237	8.1	30
417	Clonal selection based intelligent parameter inversion algorithm for prestack seismic data. <i>Information Sciences</i> , <b>2020</b> , 517, 86-99	7.7	12
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413	Multiscale topology optimization for coated structures with multifarious-microstructural infill. <i>Structural and Multidisciplinary Optimization</i> , <b>2020</b> , 61, 1473-1494	3.6	10
412	Evolutionary many-objective assembly of cloud services via angle and adversarial direction driven search. <i>Information Sciences</i> , <b>2020</b> , 513, 143-167	7.7	9
411	Topological design of sandwich structures with graded cellular cores by multiscale optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 361, 112749	5.7	33
410	A Multilevel Information Fusion-Based Deep Learning Method for Vision-Based Defect Recognition. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 3980-3991	5.2	25
409	An effective Iterated Greedy algorithm for the distributed permutation flowshop scheduling with due windows. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 96, 106629	7.5	26
408	A Gait Planning Method for Humanoid Robot to Step Over Discrete Terrain <b>2020</b> ,		1

407	Risk-based design optimization under hybrid uncertainties. <i>Engineering With Computers</i> , <b>2020</b> , 1	4.5	0
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405	Spatial-varying multi-phase infill design using density-based topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 372, 113354	5.7	21
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400	Intelligent optimization methodology of battery pack for electric vehicles: A multidisciplinary perspective. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 9686-9706	4.5	10
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397	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-17	7.3	5
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394	A new automatic machine learning based hyperparameter optimization for workpiece quality prediction. <i>Measurement and Control</i> , <b>2020</b> , 53, 1088-1098	1.5	7
393	Framework of model selection criteria approximated genetic programming for optimization function for renewable energy systems. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 59, 100750	9.8	2
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391	Knowledge Graph-guided Convolutional Neural Network for Surface Defect Recognition <b>2020</b> ,		2
390	Adaptive Delay Compensation for Admittance Control of Hydraulic Series Elastic Actuator <b>2020</b> ,		3

389	Modeling and Balancing for Green Disassembly Line Using Associated Parts Precedence Graph and Multi-objective Genetic Simulated Annealing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2020</b> , 8, 1597	3.8	5
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380	A transfer convolutional neural network for fault diagnosis based on ResNet-50. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 6111-6124	4.8	129
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323	Concurrent topology optimization of multiscale composite structures in Matlab. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 60, 2621-2651	3.6	38
322	A multiobjective evolutionary algorithm based on decomposition for hybrid flowshop green scheduling problem. <i>Computers and Industrial Engineering</i> , <b>2019</b> , 136, 325-344	6.4	48
321	Experimental Combined Grouping Analysis Approach for Robust Battery pack design for Electric Vehicles with Higher Performance. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 268, 012020	0.3	1
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314	Fault Diagnosis Using Unsupervised Transfer Learning Based on Adversarial Network <b>2019</b> ,		2
313	An improved Q-learning based rescheduling method for flexible job-shops with machine failures <b>2019</b> ,		9
312	A Shapelet Dictionary Learning Algorithm for Time Series Classification <b>2019</b> ,		1
311	Conditional Value at Riskbased Multidisciplinary Robust Design Optimization <b>2019</b> ,		2
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307	A Semantic Information Services Framework for Sustainable WEEE Management Toward Cloud-Based Remanufacturing <b>2019</b> , 235-257		0
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295	A Hierarchical Feature Fusion-based Method for Defect Recognition with a Small Sample <b>2019</b> ,		4
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20	An expert system using rough sets theory for aided conceptual design of shipB engine room automation. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 3223-3233	7.8	29
19	Multi-agent based integration of process planning and scheduling <b>2009</b> ,		1
18	Game theory-based Cooperation of Process Planning and Scheduling <b>2008</b> ,		14
17	A Survey and Future Trend of Study on Multi-Objective Scheduling <b>2008</b> ,		10
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