机械学院 2021 年发表论文

序号	论文题目	作者	发表刊物	期刊类型
1	Parameter Identification of the Yoshida-Uemori Hardening Model for Remanufacturing	夏绪辉	Metals	SCI
2	Pricing and Coordination of Competitive Recycling and Remanufacturing Supply Chain Considering The Quality of Recycled Products	夏绪辉	Journal of Industrial and Management Optimization	SCI
3	The study of crystal-phase composition and pore structure for Dicaoqing-Zisha compared with porcelain and pottery	王兴东	Ceramics International	SCI
4	Path Synthesis Optimization Model of Planar Five-Bar Metamorphic Mechanism	王兴东	Ceramics International	SCI
5	A Novel CNC Milling Energy Consumption Prediction Method Based on Program Parsing and Parallel Neural Network	夏绪辉	Sustainability	SCI
6	Synchro spline-kernelled chirplet extracting transform: A useful tool for characterizing time-varying features under noisy environments and applications to bearing fault diagnosis	吕　勇	Measurement	SCI
7	High-Order Synchroextracting Chirplet Transform for Accurate Instantaneous Frequency Estimation and Its Application in Fault Diagnosis of Rotary Machinery	吕　勇	IEEE Sensors Journal	SCI
8	Matching Synchroextracting Transform for Mechanical Fault Diagnosis under VariableSpeed Conditions	吕　勇	IEEE Transactions on Instrumentation and Measurement	SCI
9	Longitudinal synchroextracting transform: A useful tool for characterizing signals with strong frequency modulation and application to machine fault diagnosis	吕　勇	Measurement	SCI
10	Multi-objective optimization of self-excited oscillation heat exchange tube based on multiple concepts	汪朝晖	Applied Thermal Engineering	SCI

11	Retinal Vessel Segmentation Algorithm Based on Residual Convolution Neural Network	许　爽	Frontiers in Bioengineering and Biotechnology	SCI
12	Improved tribological behavior of plasma-nitrided AlCrTiV and AlCrTiVSi high-entropy alloy films	蔡召兵	Tribology International	SCI
13	Optimal Remanufacturing Service Resource Allocation for Generalized Growth of Retired Mechanical Products: Maximizing Matching Efficiency	王　蕾	IEEE Access	SCI
14	Efficient image segmentation based on deep learning for mineral image classification	张泽琳	Advanced Powder Technology	SCI
15	Research on Online Defect Detection Method of Solar Cell Component Based on Lightweight Convolutional Neural Network	刘怀广	International Journal of Photoenergy	SCI
16	Controlling wetting properties on nanostructure surfaces by the coupled effect of the structural parameter and roughness factor	卢　艳	Current Nanoscience	SCI
17	Mechanism of heat transfer enhancement by nanochannels copper plate interface wettability: A molecular dynamics study	付　婷	International Journal of Thermal Sciences	SCI
18	Manipulator grabbing position detection with information fusion of color image and depth image using deep learning	李公法	Journal of Ambient Intelligence and Humanized Computing	SCI
19	High-Temperature Friction and Wear Behavior of Varying-C VN Films	蔡召兵	Journal of Materials Engineering and Performance	SCI
20	Local search methods for type I mixed-model two-sided assembly line balancing problems	李梓响	Memetic Computing	SCI
21	Enhanced branch-bound-remember and iterative beam search algorithms for type II assembly line balancing problem	李梓响	Computers & Operations Research	SCI
22	Modelling and solving profit-oriented U-shaped partial disassembly line balancing problem	李梓响	Expert Systems with Applications	SCI
23	Multi-objective migrating bird optimization algorithm for cost-oriented assembly line balancing problem with	李梓响	Neural Computing & Applications	SCI

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24	Application of Design-Based Learning and Outcome-Based Education in Basic Industrial Engineering Teaching: A New Teaching Method	张旭刚	Sustainability	SCI
25	Study on heat transfer in self-excited oscillation with backflow vortex disturbance effect	汪朝晖	Journal of Thermophysics and Heat Transfer	SCI
26	Aerodynamic Performance of the Three-Dimensional Lumped Flexibility Wing Under Wind Fluctuating Condition	朱建阳	International Journal of Aeronautical and Space Sciences	SCI
27	3D reconstruction based on photoelastic fringes	陶　波	Concurrency and Computation: Practice and Experience (CCPE)	SCI
28	Integrated Design of Process-Tolerance for Remanufacturing Based on Failure Feature	江志刚	Applied sciences-basel	SCI
29	Improved fuzzy C-means clustering algorithm based on t-SNE for terahertz spectral recognition	易灿灿	Infrared Physics & Technology	SCI
30	Modeling and Predictive Analysis of Small Internal Leakage of Hydraulic Cylinder Based on Neural Network	郭　媛	Energies	SCI
31	Gesture recognition based on multi-modal feature weight	孙　瑛	Concurrency and Computation: Practice and Experience (CCPE)	SCI
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33	On the room-temperature tensile deformation behavior of a cast dual-phase high-entropy alloy CrFeCoNiAl0.7	王　强	Journal of Materials Science & Technology	SCI
34	An effective and unified method to derive the inverse kinematics formulas of general six-DOF manipulator with simple geometry	李公法	Mechanism and Machine Theory	SCI
35	Fiber Bragg grating based acceleration sensors: a review	郭永兴	Sensor Review	SCI
36	Dynamic Gesture Recognition Algorithm Based on 3D Convolutional Neural Network	李公法	Computational Intelligence and Neuroscience	SCI

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38	A Time Sequence Images Matching Method Based on the Siamese Network	陶　波	Sensors	SCI
39	Multi-objective Q-learning-based hyper-heuristic with Bi-criteria selection for energy-aware mixed shop scheduling	唐秋华	Swarm and Evolutionary Computation	SCI
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41	Fiber Bragg Grating Based Three-Axis Vibration Sensor	郭永兴	IEEE Sensors Journal	SCI
42	Research on pipe crack detection based on image processing algorithm	陶　波	International Journal of Wireless and Mobile Computing	SCI
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44	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints	熊禾根	Computers & Operations Research	SCI
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52	Rotation improvement of vertical axis wind turbine by offsetting pitching angles and changing blade numbers	朱建阳	Energy	SCI
53	In-situ tool wear area evaluation in micro milling with considering the influence of cutting force	李　斯	Mechanical Systems and Signal Processing	SCI
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58	Semantic segmentation for multiscale target based on object recognition using the improved Faster-RCNN model	李公法	Future Generation Computer Systems-The International Journal of eScience	SCI
59	Enhancement ofreal-timegrasp detection by cascaded deep convolutional neural networks	孙　瑛	Concurrency and Computation: Practice and Experience (CCPE)	SCI
60	Double Low-rank Based Matrix Decomposition for Surface Defect Segmentation of Steel Sheet	周诗洋	ISIJ International	SCI
61	Effect of cooperative injection and suction jet on power extraction characteristics of a semi-active flapping airfoil	朱建阳	Acta Mechanica Sinica	SCI
62	Improve the performance of a semi-active flapping airfoil power generator by adjusting both offsetting mass center displacement and changing	朱建阳	Energy Reports	SCI

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63	Geometric Multigrid Method for Isogeometric Analysis	左兵权	Computer Modeling in Engineering & Sciences	SCI
64	Metal-based additive manufacturing condition monitoring methods: From measurement to control	林　昕	ISA Transactions	SCI
65	Articulated 3D model matching using multi-scale histograms of shape features for customized additive manufacturing	林　昕	Computers in Industry	SCI
66	Metal-Based Additive Manufacturing Condition Monitoring: A Review on Machine Learning Based Approaches	林　昕	IEEE/ASME Transactions on Mechatronics	SCI
67	Gesture recognition based on surface electromyography-featureimage	李公法	Concurrency and Computation: Practice and Experience (CCPE)	SCI
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71	Performance evaluation of a deep learning based wet coal image classification	张泽琳	Minerals Engineering	SCI
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74	A Hyper Heuristic Algorithm Based Genetic Programming for Steel Production Scheduling of Cyber-Physical System-ORIENTED	蒋国璋	Mathematics	SCI
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81	Rapid boiling of argon vapor film confined by alternated hydrophobic and hydrophilic structures: Molecular dynamics study	卢 艳	International Communications in Heat and Mass Transfer	SCI
82	An efficient migrating birds optimization algorithm with idle time reduction for Type-I multi-manned assembly line balancing problem	张子凯	Journal of Systems Engineering and Electronics	SCI
83	A robust MILP and gene expression programming based on heuristic rules for mixed-model multi-manned assembly line balancing	张子凯	Applied Soft Computing	SCI
84	Integrating flexible preventive maintenance activities into two-stage assembly flow shop scheduling with multiple assembly machines	张子凯	Computers & Industrial Engineering	SCI
85	Integrating preventive maintenance to two-stage assembly flow shop scheduling: MILP model，constructive heuristics and meta-heuristics	张子凯	Flexible Services and Manufacturing Journal	SCI
86	Integration of balancing and preventive maintenance in straight and U-shaped resource-dependent assembly lines: MILP model and memetic algorithm	张子凯	Applied Soft Computing Journal	SCI

87	Maintenance costs and makespan minimization for assembly permutation flow shop scheduling by considering preventive and corrective maintenance	张子凯	Journal of Manufacturing Systems	SCI
88	Thermal-hydraulic performance in a tube with punched delta winglets inserts in turbulent flow	付 婷	International Journal of Thermal Sciences	SCI
89	Numerical and Experimental Investigations of Micro Thermal Performance in a Tube with Delta Winglet Pairs	付 婷	Micromachines	SCI
90	A new method for isomorphism identification of planetary gear trains	孙 伟	Mechanical Sciences	SCI
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92	Drag reduction mechanism of vapour-assisted liquid membrane lubrication on texture surface with elevated temperature	卢 艳	Lubrication Science	SCI
93	Research on the Method of Coke Optical Tissue Segmentation Based on Adaptive Clustering	刘怀广	International Journal of Photoenergy	SCI
94	A binocular reconstruction method fused with Laplacian image information for pavement texture evaluation	朱 攀	Measurement	SCI
95	Outcome of mitral valve repair or replacement for non-ischemic mitral regurgitation a systematic review and meta-analysis	于普良	Journal of Cardiothoracic Surgery	SCI
96	Fatigue Models Based on Real Load Spectra and Corrected S-N Curve for Estimating the Residual Service Life of the Remanufactured Excavator Beam	赵 刚	Metals	SCI
97	Experiment and simulation investigation of multiple cracks evolution at the weld toe	魏国前	International Journal of Fatigue	SCI
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99	Towards the steel plate defect detection: Multidimensional feature information extraction and fusion	郝志强	Concurrency and Computation: Practice and Experience (CCPE)	SCI
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102	Multi-objective optimization design of lithium-ion battery liquid cooling plate with double-layered dendritic channels	汪朝晖	Applied Thermal Engineering	SCI
103	Self-excited counterflow disturbance and heat transfer characteristics of Al2O3-water nanofluids	汪朝晖	Journal of Thermophysics and Heat Transfer	SCI
104	An Efficient Augmented Lagrange Multiplier Method for Steelmaking and Continuous Casting Production Scheduling	唐秋华	Chemical Engineering Research and Design	SCI
105	Solving multi-objective model of assembly line balancing considering preventive maintenance scenarios using heuristic and grey wolf optimizer algorithm	唐秋华	Engineering Applications of Artificial Intelligence	SCI
106	Mathematical model and enhanced cooperative co-evolutionary algorithm for scheduling energy-efficient manufacturing cell	唐秋华	Journal of Cleaner Production	SCI
107	An improved multi-objective multifactorial evolutionary algorithm for assembly line balancing problem considering regular production and preventive maintenance scenarios	唐秋华	Swarm and Evolutionary Computation	SCI
108	A Review on the Lifecycle Strategies Enhancing Remanufacturing	江志刚	SN Applied Sciences	SCI
109	Microstructure and corrosion behavior of AlCrTiV-X (X = Cu, Mo, CuMo) high-entropy alloy films in 3.5 wt.% NaCl solution	蔡召兵	surfaces and interfaces	SCI
110	Dynamic Gesture Recognition Using Surface EMG Signals Based on	孙　瑛	Frontiers in Bioengineering and	SCI

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111	Comparative study on the fretting wear property of 7075 aluminum alloys under lubricated and dry conditions	张　坡	Wear	SCI
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113	High-temperature tensile behaviors and microstructural evolutions of a directionally solidified Ti–45Al–5Nb–2Mn alloy	王　强	Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing	SCI
114	Improving surface oleophobicity by dual-scale hierarchical structure design	卢　艳	Journal of Dispersion Science and Technology	SCI
115	Microstructure, mechanical and tribological performances of a directionally solidified γ-TiAl alloy	王　强	Materials Characterization	SCI
116	Target localization in local dense mapping using RGBD SLAM and object detection	徐曼曼	Concurrency and Computation: Practice and Experience (CCPE)	SCI
117	Multiscale generative adversarial network for real-world super-resolution	孙　瑛	Concurrency and Computation: Practice and Experience (CCPE)	SCI
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119	An integrated design method for remanufacturing process based on performance demand	江志刚	International Journal of Advanced Manufacturing Technology	SCI
120	Time–frequency analysis via complementary ensemble adaptive local iterative filtering and enhanced maximum correlation kurtosis deconvolution for wind turbine fault diagnosis	吕　勇	Energy Technology	SCI
121	A rolling bearing fault classification scheme based on k-optimized adaptive local iterative filtering and improved multiscale permutation entropy	吕　勇	Entropy	SCI
122	Complementary Ensemble Adaptive Local Iterative Filtering and Its Application to Rolling Bearing Fault	吕　勇	IEEE Access	SCI

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123	A systematic investigation on quaternary NbTiZr-based refractory high entropy alloys using empirical parameters and first principles calculations	段现银	Modelling and Simulation in Materials Science and Engineering	SCI
124	The Thermo-Mechanical Coupling Effect in Selective Laser Melting of Aluminum Alloy Powder	段现银	Materials	SCI
125	A new isomorphism determination method of chemical polymers using distance topological matrix	孙 伟	Journal of Molecular Structure	SCI
126	Research on mathematical model of characteristic curve of surface perception by PVDF array based on Ferguson function	余 震	International Journal of Engineering Systems Modelling and Simulation	EI
127	Research on the method of vision online distance measurement of laser holes in solar base cell	刘怀广	EURASIP Journal on Wireless Communications and Networking	EI
128	Deep learning-based image classification of gas coal	张泽琳	International Journal of Global Energy Issues	EI
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141	Dimensional Optimization of the 3RRR Parallel Manipulator with Specified Workspace	邵 华	The 14th International Conference on Intelligent Robotics and Applications	国际会议
142	Demand Forecasting for Shared Umbrella using BP Neural Network	张利平	11th international conference on information science and technology	国际会议
143	Research on Common Tree Species Recognition by Faster R-CNN Based on Whole Tree Image	汤 勃	2021 6th International Conference on Signal and Image Processing	国际会议
144	Research on Restoration of Color Object in Computational Holography based on Genetic Algorithm	许 爽	China Semiconductor Technology International Conference 2021, CSTIC 2021	国际会议
145	Mask Design Method for Un-Patterned Dark Field Defect Inspection System	许 爽	China Semiconductor Technology International Conference 2021, CSTIC 2021	国际会议
146	A numerical CFD simulation method using static grid based on momentum compensation for screw pumps	严 迪	IOP Conference Series: Materials Science and Engineering	国际会议
147	Position Estimation Based on the Intelligent Optimization Algorithm	汤 勃	2021 6th International Conference on Signal and Image Processing	国际会议
148	Error Analysis of Space Manipulator Joint Module Based on the SDT Theory	唐 伟	14th International Conference on Intelligent Robotics and Applications, ICIRA 2021	国际会议
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173	管道全位置焊缝三维测量研究	余 震	石油机械	中文核心
174	格莱圈动密封性能分析及密封参数优化	郭 媛	润滑与密封	中文核心

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181	基于高斯过程回归的足式机器人触地检测研究	郭永兴	组合机床与自动化加工技术	中文核心
182	基于 PVDF 阵列的微结构表面形貌感测方法研究	余　震	武汉科技大学学报	中文核心
183	融合信赖域的 SLAM 后端优化算法	雷　斌	组合机床与自动化加工技术	中文核心
184	基于深度学习的语义栅格地图构建方法	蒋　林	武汉科技大学学报	中文核心
185	考虑序列相关调整时间的多目标置换流水车间调度算法	唐秋华	武汉科技大学学报	中文核心
186	基于 AMESim 精冲机主缸液压系统的仿真与研究	朱学彪	机床与液压	中文核心
187	多特征提取与 BT_SVM 的焊缝表面缺陷检测	余　震	机械科学与技术	中文核心
188	SLM 成型件表面球化程度表征方法及等级检测	林　昕	激光与红外	中文核心
189	基于 CFD 的钢渣风淬工艺参数分析与设计	刘源泂	炼钢	中文核心
190	集装箱码头船舶多贝位配载与堆场取箱协同优化研究	刘志雄	系统仿真学报	中文核心
191	一种多线激光雷达室外小范围导航算法设计	赵　慧	机械设计与制造	中文核心
192	考虑齿侧间隙的行星齿轮传动动力学研究	邹光明	机械传动	中文核心
193	混流式喷水推进泵压力脉动数值分析	徐增丙	流体机械	中文核心
194	衣物自动包装机折叠机构设计与优化	李　佳	轻工机械	中文核心
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196	基于双向流固耦合的柔性扑翼变形数值研究	侯 宇	飞行力学	中文核心
197	面向大型冶金轴件的激光清洗装备的研发	杨金堂	组合机床与自动化加工技术	中文核心
198	铸造 CrCoNi 中熵合金碳化物析出行为及力学性能	杜 辉	特种铸造及有色合金	中文核心
199	激光切割铜板的温度场数值模拟	付 婷	武汉科技大学学报	中文核心
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205	基于机器视觉的大轴端面锈蚀检测与清洗	杨金堂	煤矿机械	中文核心
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227	一种求解多品种小批量单元划分的布谷鸟算法	张利平	机械设计与制造	中文核心
228	基于图像识别的耐火材料破损率计算方法研究_	王兴东	武汉科技大学学报	中文核心
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