## 智能信息

边杰,霍常青,王平,等. IITD算法在滑油管路模态参数辨识中的应用[J]. 郑州大学学报（工学版）,2018,39(1):84-89.

BIAN J, HUO CQ, WANG PING, et al. Application of IITD algorithm in identification of slide parameters [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 84-89.

王依乔,张伟. 基于非结构化月面复杂环境下SLAM技术研究进展[J]. 郑州大学学报（工学版）,2018,39(3):45-50.

WANG YIQIAO, ZHANG WEI. Research progress of SLAM technology based on the complex environment of unstructured lunar surface [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 45-50.

彭金柱,卞英楠,周树亮. 基于DRNN网络的轮式机器人鲁棒H∞ 控制[J]. 郑州大学学报（工学版）,2018,39(4):64-69.

PENG JINZHU, BIAN YINGNAN, ZHOU SHULIANG. Rorobust H Control based on DRNN network [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 64-69.

蒋慧琴,徐玉风,马岭,等. 一种自适应低剂量CT图像质量改善算法[J]. 郑州大学学报（工学版）,2018,39(4):75-80.

JIANG HUIQIN, XU YUFENG, MA LING, et al. An adaptive low-dose CT image quality improvement algorithm [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 75-80.

方洁,杜海明,刘娜. 变时滞耦合不确定复杂网络修正函数投影同步[J]. 郑州大学学报（工学版）,2018,39(4):81-85,91.

FANG J, DU HM, LIU N. Time-delayed coupling Correction function projection synchronization of uncertain complex networks [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 81-85,91.

滕志军,郭力文,吕金玲,等.基于时序信息分析的WSN贝叶斯信誉评价模型[J].郑州大学学报(工学版),2019,40(1):38-43.

TENG Z J,GUO L W,LV J L ,et al. WSN bayes reputation evaluation model based on time series information analysis[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):38-43.

穆晓敏,刘亚丽,张建康,等.基于PARAFAC分解的大规模MU-MIMO稀疏信道估计[J].郑州大学学报(工学版),2019,40(1):44-49.

MU X M,LIU Y L,ZHANG J K, et al. Massive MU-MIMO sparse channel estimation based on PARAFAC decomposition[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):44-49.

李章晓,宋微,田野.基于深度学习和进化计算的外汇预测与投资组合优化[J].郑州大学学报(工学版),2019,40(1):92-96.

LI Z X,SONG W,TIAN Y. Exchange rate forecasting and portfolio optimization based on deep learning and evolutionary computation[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):92-96.

郝志峰,申策,蔡瑞初,等.融合社交信息的跨域时序兴趣预测方法[J].郑州大学学报(工学版),2019,40(2):48-54.

HAO Zhifeng, SHEN Ce, CAI Ruichu, et al. A cross-domain temporal interest prediction method by integrating social Information[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):48-54.

黄云辉,刘笑寒,姚俊峰,等.自助三维导诊系统的研究与实现[J].郑州大学学报(工学版), 2019,40(2):55-58+81.

HUANG Y H,LIU X H,YAO J F, et al. Research and implementation of self-Help 3D consultation system[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(2):55-58+81.

穆晓敏,徐茹茹,张松伟,等.干扰约束下基于用户需求的多信道频谱接入机制[J].郑州大学学报(工学版),2019,40(3):26-30.

MU X M,XU R R,ZHANG S W, et al. Demand-aware multichannel opportunistic spectrum access mechanism under interference constraint[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):26-30.

刘帅奇,王洁,安彦玲,等.基于CNN的非下采样剪切波域多聚焦图像融合[J].郑州大学学报(工学版),2019,40(4):36-41.

LIU S Q，WANG J，AN Y L, el at. Multi-focus image fusion based on CNN in non-sampled shearlet domain[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(4): 36-41.

胡春鹤,王依帆,朱书豪,等.基于鸽群优化算法的图像分割方法研究[J].郑州大学学报(工学版),2019,40(4):42-47.

HU C H，WANG Y F，ZHU S H, el at. Research on image segmentation method based on pigeon group optimization lgorithm[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):42-47.

汪慎文,杨锋,徐亮,等.离散差分进化算法求解共享单车调度问题[J].郑州大学学报(工学版),2019,40(4):48-53.

WANG S W，YANG F，XU L ,el at. Discrete differential evolution algorithm for solving free-floating bike-sharing system scheduling problem[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):9.

牛莹,张勋才.基于Duffing映射与遗传操作的图像加密方法[J].郑州大学学报(工学版),2019,40(4):48-53.

NIU Y，ZHANG X C. Image encryption algorithm based on duffing map and genetic operators [J].Journal of Zhengzhou University (Engineering Science),2019,40(4):11.

刘可,巩敦卫.用于指尖定位的多目标分布估计算法[J].郑州大学学报(工学版),2019,40(4): 68-72+79.

LIU K，GONG D W. A multi-objective estimation of distribution algorithm for fingertip localization[J]. Journal of Zhengzhou University (Engineering Science),2019, 40(4): 68-72+79.

朱春峰,刘琦,李东坤,等.一种基于ODDT的FDES复合因果链层次化解耦方法[J].郑州大学学报(工学版),2019,40(4):73-79.

ZHU C F，LIU Q，LI D K, el at. A hierar chical decoupling method of FDES complex causality chain based on ODDT[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):73-79.

黄文锋,徐珊珊,孙燚,等.基于多分辨率卷积神经网络的火焰检测[J].郑州大学学报(工学版),2019,40(5):80-84.

HUANG W F，XU S S，SUN Y ,el at. Fire detection based on multi-resolution convolution neural network[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):80-84.

蔡婉贞,黄翰.基于BP-RBF神经网络的组合模型预测港口物流需求研究[J].郑州大学学报(工学版),2019,40(5):85-91.

CAI W Z，HUANG H .A model based on the combination of BP and RBF neural network for port logistic demand forecasting[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):85-91.

杨忠明,李子龙,胡音文,等.一种前景提取的行人模式识别检测算法[J].郑州大学学报(工学版),2019,40(5):92-97.

YANG Z M，LI Z L，HU Y W, el at. A pedestrian model recognition detection algorithm based on foreground extraction[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(5):92-97.

王杰,王禹博,朱晓东,等.融合人眼掩蔽效应和图像梯度的块效应评价方法[J].郑州大学学报(工学版),2019,40(3):7-12.

WANG J,WANG Y B,ZHU X D, et al. A blocking artifacts evaluation method integrating human eye masking effect and image gradient[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):7-12

郭一楠,程伟,杨欢,等.锚杆钻机转速的头脑风暴最优自抗扰控制[J].郑州大学学报(工学版),2019,40(3):13-18+25.

GUO Y N,CHENG W,YANG H,et al. An optimal active-disturbance-rejection controller for the rotary speed of an anchor-hole drill based on brain storm optimization algorithm[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):13-18+25.

李娜娜,黄琨强,张秋闻,等.基于自适应量化器选择的编码率失真优化判决算法[J].郑州大学学报(工学版),2019,40(3):19-25.

LI N N,HUANG K Q,ZHANG Qi W, et al. Rate distortion optimization decision algorithm of coding based on adaptive quantizer selection[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):19-25.

张勇,高光辉,郭一楠,等.融合差分进化和Taylor级数的超宽带定位解算方法[J].郑州大学学报(工学版),2020,41(1):70-74+82.

ZHANG Y,GAO G H,GUO Y N,et al. Ultra-wideband positioning solution method based on differential evolution and taylor series[J].Journal of Zhengzhou University (Engineering Science),2020,41(1):70-74+82.

王华,何晓宇,徐静,等.融合交通心理学的车辆群组运动仿真研究综述[J].郑州大学学报(工学版),2020,41(1):83-90.

WANG H,HE X Y,XU J,et al.Survey of psychology based traffic simulation[J].Journal of Zhengzhou University (Engineering Science),2020,41(01):83-90.

尚志刚,沈晓阳,李蒙蒙,等.基于格兰杰因果的效应性连接分析方法综述[J].郑州大学学报(工学版),2020,41(3):1-7+13.

SHANG Z G,SHEN X Y,LI M M,et al. Review of the analysis methods of effective connectivity based on granger causality[J].Journal of Zhengzhou University (Engineering Science),2020,41(3):1-7+13.

左敏,徐泽龙,张青川,等.基于双维度中文语义分析的食品领域知识库问答[J].郑州大学学报(工学版),2020,41(3):8-13.

ZUO M,XU Z L,ZHANG Q C,et al. A Question answering model of food domain knowledge bases with two-dimension chinese semantic analysis[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):8-13.

李水佳,龚文引.基于自适应差分演化算法的光伏模型参数提取[J].郑州大学学报(工学版),2020,41(3):14-19.

LI S J,GONG W Y. Parameter Extraction of photovoltaic models based on adaptive differential evolution algorithm[J].Journal of Zhengzhou University (Engineering Science), 2020, 41(3):14-19.

张成才,李飞,王艳梅,等.MKFCM算法在遥感影像分类中的应用研究[J].郑州大学学报(工学版),2020,41(3):20-25.

ZHANG C C,LI? F,WANG Y M,et al. Remote sensing image classification based on multi-core fuzzy c-means clustering[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):20-25.

张端金,郭璐.具有双边丢包和混合时延的Delta算子系统H∞滤波[J].郑州大学学报(工学版),2020,41(3):26-31+46.

ZHANG D J,GUO L. H∞ filtering for delta operator systems with two-channel packet dropouts and mixed delays[J].Journal of Zhengzhou University (Engineering Science), 2020,41(3):26-31+46.

陈丽萍,王铭羽,杨文柱,等.基于改进核相关滤波的长时目标跟踪算法[J].郑州大学学报(工学版),2020,41(3):32-36.

CHEN L P,WANG M Z,YANG W Z,et al. An Improved kernelized correlation filter for long-term target tracking[J].Journal of Zhengzhou University (Engineering Science),2020, 41(3):32-36.

张茂清,汪镭,崔志华,等.基于混合策略的快速非支配排序算法Ⅱ[J].郑州大学学报(工学版),2020,41(4):23-27.

ZHANG M Q,WANG L,CUI Z H, et al. Fast non-dominated sorting genetic algorithm II based on hybrid strategies[J].Journal of Zhengzhou University (Engineering Science),2020, 41(4):23-27.

孙国栋,江亚杰,徐亮,等.BP网络预测阈值的仪表重影字符识别方法研究[J].郑州大学学报(工学版),2020,41(4):28-33.

SUN G D,JIANG Y J,XU L,.et al. Study on Instrument ghosting character recognition method for predicting binarization threshold by BP network[J].Journal of Zhengzhou University (Engineering Science),2020,41(4):28-33.

欧阳海滨,全永彬,高立群,等.基于混合遗传粒子群优化算法的层次路径规划方法[J].郑州大学学报(工学版),2020,41(4):34-40.

OUYANG H B,QUAN Y B,GAO L Q,et al. Hierarchical path planning method for mobile robots based on hybrid genetic particle swarm optimization algorithm[J].Journal of Zhengzhou University (Engineering Science),2020,41(04):34-40.

王丙琛,司怀伟,谭国真.基于深度强化学习的自动驾驶车控制算法研究[J].郑州大学学报(工学版),2020,41(4):41-45+80.

WANG B C,SI H W,TAN G Z. Research on autopilot control algorithm based on deep reinforcement learning[J].Journal of Zhengzhou University (Engineering Science),2020, 41(4):41-45+80.

高岳林,武少华.基于自适应粒子群算法的机器人路径规划[J].郑州大学学报(工学版),2020,41(4):46-51.

GAO Y L,WU S H. Robot path planning based on adaptive particle swarm algorithm[J].Journal of Zhengzhou University (Engineering Science),2020,41(04):46-51.

朱晓东,王鼎.求解双目标VRPTW的改进混合蚁群算法[J].郑州大学学报(工学版), 2020,41(4):52-58.

ZHU X D,WANG D.An Improved hybrid ant colony algorithm for Bi-objective VRPTW[J]. Journal of Zhengzhou University (Engineering Science),2020,41(04):52-58.

范勤勤,柳缔西子,王筱薇,等.基于反向学习的微种群教与学优化算法及其应用[J].郑州大学学报(工学版),2020,41(4):59-67.

FAN Q Q,LIU D X Z,WANG X W,et al. Opposition-based learning teaching-learning-based optimization algorithm with a micro population and its application[J].Journal of Zhengzhou University (Engineering Science),2020,41(4):59-67.

韩俊璇,孙伟峰,赵瑞莲,等.基于模板挖掘的程序自动修复方法[J].郑州大学学报(工学版),2021,42(2):61-66.

HAN J X，SUN W F，ZHAO R L ,et al.Automatic program repair method based on template mining[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):61-66.

彭金柱,董梦超,杨扬.基于视觉和肌电信息融合的手势识别方法[J].郑州大学学报(工学版),2021,42(2):67-73.

PENG J Z，DONG M C，YANG Y.Human gesture recognition method based on vision and EMG signal information[J].Journal of Zhengzhou University (Engineering Science),2021, 42(2):67-73.

王华,马亚丹,李绅绅,等.三维场景中基于模板的个性化蒙版擦除动画[J].郑州大学学报(工学版),2021,42(2):74-79.

WANG H，MA Y D，LI S S, et al.Template-based and personalized erasure animation in three-dimensional scenes[J].Journal of Zhengzhou University (Engineering Science),2021, 42(2): 74-79.

陈义飞,郭胜,潘文安,等.基于多源传感器数据融合的三维场景重建[J].郑州大学学报(工学版),2021,42(2):80-86.

CHEN Y F，GUO S，PUN Man-on et al.3D scene reconstruction based on multi-source sensor data fusion[J].Journal of Zhengzhou University (Engineering Science),2021,42(2): 80-86.

赵旭阳,张延彬,王忠勇,等.基于SVM的声磁标签检测系统设计及其FPGA实现[J].郑州大学学报(工学版),2021,42(3):13-18.

ZHAO X Y，ZHANG Y B，WANG Zhongyong, et al. Design of acoustic magnetic label detection system based on SVM and FPGA implementation[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):13-18.

刘振鹏,王鑫鹏,李明,等.基于时延和负载均衡的多控制器部署策略[J].郑州大学学报(工学版),2021,42(3):19-25+32.

LIU Z P，WANG X P，LI M, et al.Multi-controller deployment strategy based on delay and load balancing[J].Journal of Zhengzhou University (Engineering Science),2021,42(3): 19-25+32.

陈梦婷,王兴刚,刘文予.基于密集深度插值的3D人体姿态估计方法[J].郑州大学学报(工学版),2021,42(3):26-32.

CHEN M T，WANG X G，LIU W Y. Dense depth interpolation for 3D human pose estimation[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):26-32.

万文博,祖兰晶,薛泽颖,等.自适应参数与边缘点引导的深度图像超分辨[J].郑州大学学报(工学版),2021,42(3):33-38.

WAN W B，ZU L J，XUE Z Y, et al. Adaptive parameters and edge point guided depth image super-resolution[J].Journal of Zhengzhou University (Engineering Science),2021,42(3): 33-38.

樊娇,雷涛,韩伟,等.无人机航迹规划技术研究综述[J].郑州大学学报(工学版),2021,42(3):39-46.

 FAN Jiao，LEI Tao，HAN Wei ,et al.A survey of UAV path planning[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):39-4

黄宇达,王迤冉,牛四杰.引入细节约束因子的半耦合字典学习超分辨率重构模型[J].郑州大学学报(工学版),2021,42(3):59-64.

HUANG Y D，WANG Y R，NIU S J. Semi-coupled dictionary learning super-resolution reconstruction model with detail constraint factor[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):59-64.

费克雄,王雅文,宫云战.基于软件度量的集成测试序列生成方法[J].郑州大学学报(工学版),2021,42(4):1-6.

FEI K X，WANG Y W，GONG Y Z.An integrated trest sequence generation method based on software metrics[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):1-6.

李润川,张行进,陈刚,等.基于多特征融合的心搏类型识别研究[J].郑州大学学报(工学版),2021,42(4):7-12.

LI R C，ZHANG X J，CHEN G ,et al. Research on heartbeat type recognition based on multi-feature fusion[J].Journal of Zhengzhou University (Engineering Science),2021, 42(4): 7-12.

易茂祥,宋晨钰,于金星,等.基于随机森林的集成电路适应性测试方法研究[J].郑州大学学报(工学版),2021,42(4):13-18.

YI M X，SONG C Y，YU J X et al. An adaptive test method of IC based on random forest[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):13-18.

南姣芬,孟攀婷,童志航,等.基于大脑磁共振成像的多模态多层次信息融合方法[J].郑州大学学报(工学版),2021,42(4):26-32.

NAN J F，MENG P T，TONG Z H, et al. A multi-level information fusion method based on multimodal magnetic resonance imaging of human brain[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):26-32.

张三川,明珠.基于主动安全的改进人工势场局部路径规划研究[J].郑州大学学报(工学版),2021,42(5):32-36+55.

ZHANG S C，MING Z. Research on improved local path planning of artificial potential field based on active safety[J].Journal of Zhengzhou University (Engineering Science),2021,42(5): 32-36+55.

于芳星,姬波,CHENG Quanrun,等.双腔光反馈干涉激光系统中Lang-Kobayashi方程的六阶龙格-库塔算法[J].郑州大学学报(工学版),2021,42(5):37-43.

YU F X，JI B，CHENG Q R et al.Sixth order runge-Kutta algorithm for lang-kobayashi equation of dual-cavity optical feedback interference laser system[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):37-43.

黄茜,王书勤,邓少鸿,等.不确定环境下救灾部队驻地选址及搜救路径优化[J].郑州大学学报(工学版),2021,42(5):44-49.

HUANG Q，WANG S Q，DENG S H et al.Study on location-routing problem of earthquake relief troops in uncertain environment[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):44-49.

马丁,费选,慕小武.一种基于业务感知和可调节跳数的虚拟化层构建算法[J].郑州大学学报(工学版),2021,42(5):50-55.

MA D，FEI X，MU X W.A VNF-aware virtualization layer constructing algorithm based on adjustable hop count[J].Journal of Zhengzhou University (Engineering Science),2021,42(5): 50-55.

逯鹏,王汉章,毛晓波,等.基于卷积自编码器网络的脉搏波分类模型[J].郑州大学学报(工学版),2021,42(5):56-61.

LU P，WANG H Z，MAO X B et al. Pulse wave classification model based on convolutional autoencoder[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):56-61.

马歌,贾遂民.认知车联网频谱分配的免疫优化实现[J].郑州大学学报(工学版),2021,42(5):62-67.

MA G，JIA S M.Immune Optimization Based on spectrum allocation of cognitive vehicular network[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):62-67

张端金,王钟堃.具有丢包的未知转移概率Markov跳变系统鲁棒H\_∞滤波[J].郑州大学学报(工学版),2021,42(6):1-6+41.

ZHANG D J，WANG Z K. Robust H∞ filtering for markov jump systems with unknown transition probabilities and packet dropouts[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):1-6+41.

王东署,杨凯.基于状态转移学习的机器人行为决策认知模型[J].郑州大学学报(工学版),2021,42(6):7-13.

WANG D S，YANG K.Behavior decision-making cognitive model of mobile robot based on state transfer learning[J].Journal of Zhengzhou University (Engineering Science),2021,42(6): 7-13.

卜佑军,张桥,陈博,等.基于CNN和BiLSTM的钓鱼URL检测技术研究[J].郑州大学学报(工学版),2021,42(6):14-20.

BU Y，ZHANG Q，CHEN B, et al. Research on phishing UＲL detection technology based on CNN-BiLSTM[J].Journal of Zhengzhou University (Engineering Science),2021, 42(6): 14-20.

王金鑫,秦子龙,曹泽宁,等.基于八叉树的修正克里金空间插值算法[J].郑州大学学报(工学版),2021,42(6):21-27.
WANG J X，QIN Z L，CAO Zening ,et al.Modified kriging spatial interpolation algorithm based on octree mechanism[J].Journal of Zhengzhou University (Engineering Science),2021, 42(6):21-27.

薛均晓,黄世博,王亚博,等.基于时空特征的语音情感识别模型TSTNet[J].郑州大学学报(工学版),2021,42(6):28-33.
XUE J X，HUANG S B，WANG Yabo, et al. Speech emotion recognition TSTNet based on spatial-temporal features[J].Journal of Zhengzhou University (Engineering Science),2021, 42(6):28-33.

毛晓波,徐向阳,李楠,等.基于改进SSD和Jetson Nano的口罩佩戴检测门禁系统[J].郑州大学学报(工学版),2021,42(6):85-92.
MAO X B，XU X Y，LI N ,et al.A mask wear detection access control system based on improved SSD and jetson nano[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):85-92.

张震,李浩方,李孟洲,等.改进YOLOv3算法与人体信息数据融合的视频监控检测方法[J].郑州大学学报(工学版),2021,42(1):28-34.
ZHANG Z，LI H F，LI M Z ,et al.Video surveillance detection method based on improved YOLOv3 algorithm and human body information data Fusion[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):28-34.

姚莉,杜俊康,李长顺.针对伪影改善的图像拼接方法[J].郑州大学学报(工学版),2021,42(1):35-41.
YAO L，DU J K，LI Changshun.Image stitching method for improvement of artifact[J]. Journal of Zhengzhou University (Engineering Science),2021,42(1):35-41.

孙宁,王龙玉,刘佶鑫,等.结合特权信息与注意力机制的场景识别[J].郑州大学学报(工学版),2021,42(1):42-49.
SUN N，WANG L Y，LIU J X ,et al.Scene recognition based on privilege information and attention mechanism[J].Journal of Zhengzhou University (Engineering Science),2021,42(1): 42-49.

赵俊杰,王金伟.基于SmsGAN的对抗样本修复[J].郑州大学学报(工学版),2021, 42(1):50-55.
ZHAO J J，WANG J W.Recovery of adversarial examples based on sms GAN[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):50-55.

刘宇翔,张茂军,颜深,等.基于多任务学习的初始图像对选取方法[J].郑州大学学报(工学版),2021,42(1):56-62.
LIU Y X，ZHANG M J，YAN S, et al.Selecting initial image pairs based on multi-task learning[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):56-62.

李学相,曹淇,刘成明.基于无配对生成对抗网络的图像超分辨率重建[J].郑州大学学报(工学版),2021,42(5):1-6.
LI X X，CAO Q，LIU C M.Image super-resolution based on no match generative adversarial network[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):1-6.

叶继华,郭祺玥,江爱文,等.基于特征子空间直和的跨年龄人脸识别方法[J].郑州大学学报(工学版),2021,42(5):7-12.
YE J H，GUO Q Y，JIANG A W, et al. Cross-age face recognition method based on feature subspace direct sum[J].Journal of Zhengzhou University (Engineering Science),2021,42(5): 7-12.

张坚鑫,郭四稳,张国兰,等.基于多尺度特征融合的火灾检测模型[J].郑州大学学报(工学版),2021,42(5):13-18.
ZHANG J X，GUO S W，ZHANG G L, et al.Fire detection model based on multi-scale feature fusion[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):13-18.

王希鹏,李永,李智,等.融合图像深度的抗遮挡目标跟踪算法[J].郑州大学学报(工学版),2021,42(5):19-24+31.
WANG X P，LI Y，LI Z, et al.Anti-occlusion trarget tracking algorithm based on image depth[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):19-24+31.

吕璐璐,陈树越,王利平,等.水体微纤维图像识别的改进MobileNetV2算法[J].郑州大学学报(工学版),2021,42(5):25-31.
LYU L L，CHEN S Y，WANG L P ,et al.An improved mobileNetV2 algorithm for image recognition of microfibers in water[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):25-31.

卢晨辉,冯硕,易爱华,等.基于深度学习的加油站销量预测与营销策略应用研究[J].郑州大学学报(工学版),2022,43(1):1-6.
LU C H，FENG S，YI A H, et al. Gasoline station sales prediction method based on deep learning and its application of promotion strategy[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):1-6.

潘用科,贺紫平,夏克文,等.改进的协同训练半监督 SVM 在油层识别中的应用[J].郑州大学学报(工学版),2022,43(1):14-19.
PAN Y K，HE Z P，XIA K W, et al. Improved co-training semi-supervised SVM and its application in oil Layer recognition[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):14-19.

肖斌,张恒宾,刘宏伟.改进PS0-BPNN算法在管道腐蚀预测中的应用[J].郑州大学学报(工学版),2022,43(1):27-33.
XIAO B，ZHANG H B，LIU H W .Application of improved PSO-BPNN algorithm in corroded pipelines prediction[J].Journal of Zhengzhou University (Engineering Science), 2022,43(1):27-33.

周文进,李凡,薛峰.基于YOLOv3和注意力机制的野外蝴蝶种类识别[J].郑州大学学报(工学版),2022,43(1):34-40.
ZHOU W J，LI F，XUE F. Identification of butterfly species in the wild based on YOLOv3 and attention mechanism[J].Journal of Zhengzhou University (Engineering Science),2022, 43(1):34-40.

张方方,张文丽,王婷婷.基于速度补偿算法的多机器人编队控制研究[J].郑州大学学报(工学版),2022,43(2):1-6.
ZHANG F F, ZHANG W L, WANG T T .Research on multi-robot formation control based on speed compensation algorithm[J].Journal of Zhengzhou University (Engineering Science), 2022, 43(2):1-6.

华蓓,陈前,黄汝维.基于特征匹配的图像真伪检测方法的研究[J].郑州大学学报(工学版),2022,43(2):22-27.
HUA B, CHEN Q, HUANG R W. Research of image authenticity detection method based on feature matching[J].Journal of Zhengzhou University (Engineering Science),2022,43(2): 22-27.

黄华娟,韦修喜,周永权.光滑栾生参数化不敏感支持向量回归机[J].郑州大学学报(工学版),2022,43(2):28-34.
HUANG H J, WEI X X, ZHOU Y Q. mooth twin parametric insensitive support vector regression [J].Journal of Zhengzhou University (Engineering Science),2022,43(2):28-34.

田旭,彭飞,刘飞.基于金字塔特征与边缘优化的显著性对象检测[J].郑州大学学报(工学版),2022,43(2):35-43.
TIAN X, PENG F, LIU F. Salient object detection based on pyramid features and edge optimization[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):35-43.

郑建兴,郭彤彤,申利华.基于评论文本情感注意力的推荐方法研究[J].郑州大学学报(工学版),2022,43(2):44-50.
ZHENG J X, GUO T T, SHEN L H. Research on recommendation method based on sentimental attention of review text[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):44-50.

张大龙,余刚,李致远,等.考虑杆臂误差的组合导航分离协方差交叉算法[J].郑州大学学报(工学版),2022,43(3):8-14.
ZHANG D L, YU G, LI Z Y, et al. Split covariance intersection algorithm for inte grated navigation system considering lever arm error[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):8-14.

马栋榉,李敏,张端金. 基于波形边缘检测的Wi-Fi室内定位信号TOA估计[J].郑州大学学报 (工学版), 2022,43(3):15-20.
MA D J, LI M, ZHANG D J.TOA estimation of wi-Fi based on indoor localization signal by waveform edge detection[J].Journal of Zhengzhou University (Engineering Science),2022, 43(3):15-20.

曲思霖,王从庆,李建亮,等.基于小波变换共空间模式的脑电信号解码[J].郑州大学学报(工学版),2022,43(3):31-36.
QU S L, WANG C Q, LI J L, et al. EEG decoding based on wavelet transform and common space pattern[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):31-36.

刘海洋,董亮辉,高金峰,等.LCL型并网逆变器电流谐波抑制策略研究[J].郑州大学学报(工学版),2022,43(1):97-102.
LIU H Y，DONG L H，GAO J F, et al. Research on current harmonic suppression strategy of the LCL grid-connected inverter[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):97-102.

曾庆山, 周亚帅, 陶长春, et al. 电驱动机械臂的自抗扰鲁棒哈密顿跟踪控制[J]. 郑州大学学报(工学版), 2022, 43(04): 1-7+15.
ZENG Q S, ZHOU Y S, TAO C C, et al. Active Disturbance Rejection Robust Hamiltonian Tracking Control of Electrically Driven Manipulator[J]. Journal of Zhengzhou University (Engineering Science), 2022, 43(04): 1-7+15.

万红,贾上坤,崔恩泽,张俊明.基于人体姿态估计的站桩数字化表达与评估[J].郑州大学学报(工学版),2022,43(04):8-15.
WAN H, JIA S K, CUI E Z, ZHANG Z M. Digital Expression and Evaluation of Standing Stake Based on Human Pose Estimation[J] Journal of Zhengzhou University (Engineering Science),2022,43(04):8-15.

彭金柱,张建新,曾庆山.基于改进差分进化的3-RPS机器人逆运动学参数标定[J].郑州大学学报(工学版),2022,43(05):1-7+38.
PENG J Z, ZHANG J X, ZENG Q S. Inverse Kinematic Parameters Calibration of 3-RPS Parallel Robot Based on Modified Differential Evolution[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):1-7+38.

轩华,李海云,李冰.具有机器可利用性的双目标置换流水车间调度[J].郑州大学学报(工学版),2022,43(05):17-23.
XUAN H, LI H Y, LI B. Bi-objective Permutation Flow Shop Scheduling with Machine Availability[J].Journal of Zhengzhou University (Engineering Science), 2022,43(05):17-23.

尹毅峰,杨显哲,甘勇,等.基于LightGBM算法的漏洞利用预测研究[J].郑州大学学报(工学版),2022,43(05):24-30.
YIN Y F, YANG X Z, GAN Y, et al. Research on Prediction of Vulnerability Exploitation Based on LightGBM Algorithm[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):24-30.

冯皓楠,何智勇,马良荔.基于图文注意力融合的主题标签推荐[J].郑州大学学报(工学版),2022,43(06):30-5.
FENG H N, HE Z Y, MA L L. Multimodal Hashtag Recommendation Based on Image and Text Attention Fusion[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):30-5.

黄万伟,袁博,王苏南,等.基于非零和信号博弈的主动防御模型[J].郑州大学学报(工学版),2022,43(1):90-96.
HUANG W W，YUAN B，WANG S N, et al. Proactive defense model based on Non-Zero-Sum signal game[J].Journal of Zhengzhou University (Engineering Science),2022, 43(1):90-96.

李永强,刘兆伟.基于区块链的车联网安全信息共享机制设计[J].郑州大学学报(工学版),2022,43(1):103-110.
LI Y Q，LIU Z W. Blockchain-based secure data sharing mechanism design in the vehicular networks[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):103-110.

吴小燕,刘强,朱成璋.社交网络中协同舆论欺诈检测方法应用研究[J].郑州大学学报(工学版),2022,43(2):7-14.
WU X Y, LIU Q, ZHU C Z. Research on application of collaborative public opinion fraud detection method in social network[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):7-14.

张安琳,张启坤,黄道颖,等.基于CNN与BiGRU 融合神经网络的人侵检测模型[J].郑州大学学报(工学版),2022,43(3):37-43.
ZHANG A L, ZHANG Q K, HUANG D Y, et al. Intrusion detection model based on CNN and BiGRU fusing neural network[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):37-43.

汪祖民,王冬昊,梁霞,等.基于DBSCAN \_ GAN \_ XGBoost 的网络人侵检测方法[J].郑州大学学报(工学版),2022,43(3):44-51.
WANG Z M, WANG D H, LIANG X, et al. Network intrusion detection method based on DBSCAN\_GAN\_XGBoost[J].Journal of Zhengzhou University (Engineering Science),2022, 43(3): 44-51.

张建华,杨延钧,吕彦鹏,等.微秒脉冲电场联合EPA对A-549细胞活性的影响[J].郑州大学学报(工学版),2022,43(05):98-103.
ZHANG J H, YANG Y J, LYU Y P, et al. Effects of Microsecond Pulsed Electric Field Combined with EPA on the Viability of A-549 Cells[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):98-103.

刘昊,张景超,毛万登,等.智慧换流站云边协同数据交互方法[J].郑州大学学报(工学版),2022,43(05):104-10.
LIU H, ZHANG J C, MAO W D, et al. Cloud Edge Collaboration Data Interaction Method of Intelligent Converter Station[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):104-10.

刘强, 王世元, 黄雪微,等. 混沌时间序列的核自适应滤波预测算法[J]. 郑州大学学报(工学版) ,2023,44(1) : 24-30.

Liu Qiang, Wang Shiyuan, and Huang Xuewei, et al. Kernel adaptive filtering prediction algorithm of chaotic time series [J]. Journal of Zhengzhou university(engineering science) ,2023,44(1) :24-30.

杨指政, 杜子东, 文渊博. 基于国产 PuDianNao 芯片的向量函数库优化[J]. 郑州大学学报(工学版) ,2023,44 (1) :31-37.

Yang Zhizheng, Du Zidong, Wen Bo. Optimization of vector function library based on domestic PuDianNao chip[J]. Journal of Zhengzhou university(engineering science) ,2023,44(1) :31-37.

孙超, 李世杰, 张鹏,等. 出行系统最优配置下共享停车选择及泊位分配[J]. 郑州大学学报(工学版) ,2023,44 (1) :38-43.

Sun Chao, Li Shijie, and Zhang Peng, et al. Shared parking selection and berth allocation for optimal configuration of travel system[J]. Journal of Zhengzhou university(engineering science) ,2023,44(1) :38-43.

黄万伟, 郑向雨, 张超钦,等. 基于深度强化学习的智能路由技术研究[J]. 郑州大学学报(工学版) ,2023,44 (1) :44-51.

Huang Wanwei, Zheng Xiangyu, Zhang Chaoqin, et al. Research on intelligent routing technology based on deep reinforcement learning[J]. Journal of Zhengzhou university(engineering science) ,2023,44(1) :44-51.

范文兵,常正泰,艾璐琳,等. 基于 PUF 的高安全性轻量级 RFID 三方认证协议[J]. 郑州大学学报(工学版) , 2023,44(2) :46-52.

Fan Wenbing, Chang Zhengtai, Ai Lulin,et al. High-security lightweight RFID triple authentication protocol based on PUF[J]. Journal of Zhengzhou University(Engineering Science) , 2023, 44(2) : 46-52.

邓秀勤,郑丽苹,张逸群,等. 基于新的距离度量的异构属性数据子空间聚类 [J]. 郑州大学学报(工学版) , 2023,44(2) :53-60.

Deng Xiuqin, Zheng Liping, Zhang Yiqun, et al. Subspace clustering of heterogeneous-attribute data based on a new distance metric [J ] . Journal of Zhengzhou University(Engineering Science ) , 2023, 44 (2) :53-60.

李明辉,马文凯,周翊民,等. 基于多传感器融合的无人机生命搜寻方法[J]. 郑州大学学报(工学版) , 2023, 44(2) : 61-67.

Li Minghui, Ma Wenkai, Zhou Yimin, et al J. UAV life search method based on multi-sensor fusion[J]. Journal of Zhengzhou University(Engineering Science) , 2023, 44(2) : 61-67.

逯泽锟,于千城,王晓峰,等. 基于双重注意力机制的符号网络节点嵌入[J]. 郑州大学学报(工学版) ,2023,44(2) :68-74.

Lu Zekun, Yu Qiancheng, Wang Xiaofeng,et al. Learning signed network node embedding via dual attention mechanism[J]. Journal of Zhengzhou University(Engineering Science) , 2023,44(2) :68-74.

]刘艳红,张宽,霍本岩,等. 肌腱/绳驱动连续体机器人研究现状与展望. 郑州大学学报（工学版）,2023,44(3):1-11.

Liu Yanhong, Zhang Kuan, Huo Benyan, et al Research status and prospects of tendon/rope driven continuous robots[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 1-11.

张端金,刘孟凯,杜峥. 量化误差下具有多丢包的信息物理系统H∞滤波. 郑州大学学报（工学版）,2023,44(3):28-34.

Zhang Duanjin, Liu Mengkai, Du Zheng H ∞ filtering for information physics systems with multiple packet losses under quantization errors[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 28-34.

院老虎,常玉坤,刘家夫. 基于改进YOLOv5s的雾天场景车辆检测方法. 郑州大学学报（工学版）,2023,44(3):35-41.

Yuan Hu, Chang Yukun, Liu Jiafu A vehicle detection method for foggy scenes based on improved YOLOv5s[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 35-41.

韩刚涛,马瑞鹏,吴迪. 基于时频图切割的宽带信号智能检测与识别. 郑州大学学报（工学版）,2023,44(3):42-49.

Han Gangtao, Ma Ruipeng, Wu Di Intelligent detection and recognition of broadband signals based on time-frequency graph cutting[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 42-49.

朱春华,杨锦民. 一种基于加权质心的TOF与TDOA联合定位算法. 郑州大学学报（工学版）,2023,44(3):50-55.

Zhu Chunhua, Yang Jinmin A weighted centroid based TOF and TDOA joint localization algorithm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 50-55.

汪烨,周思源,翁知远,等. 一种面向用户反馈的智能分析与服务设计方法. 郑州大学学报（工学版）,2023,44(3):56-61.

Wang Ye, Zhou Siyuan, Weng Zhiyuan, et al An Intelligent Analysis and Service Design Method for User Feedback[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 56-61.

向飒. 用户画像下学术期刊智能出版的融合发展及系统构建. 郑州大学学报（工学版）,2023,44(3):121-127.

Xiang Sa The Integrated Development and System Construction of Intelligent Publishing of Academic Journals under User Profile[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 121-127.

屈丹,杨绪魁,闫红刚,等. 低资源少样本连续语音识别最新进展. 郑州大学学报（工学版）,2023,44(4):1-9.

Qu Dan, Yang Xukui, Yan Honggang, et al The latest progress in low resource and few sample continuous speech recognition[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 1-9.

张涛,葛育伟,韩旭,等. 基于对抗机制的彩色图像隐写分析算法. 郑州大学学报（工学版）,2023,44(4):10-15.

Zhang Tao, Ge Yuwei, Han Xu, et al Color image steganography analysis algorithm based on adversarial mechanism[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 10-15.

张震,晋志华,陈可鑫. 改进YOLOv5算法在停车场火灾检测中的应用. 郑州大学学报（工学版）,2023,44(4):16-21.

Zhang Zhen, Jin Zhihua, Chen Kexin Application of Improved YOLOv5 Algorithm in Parking Lot Fire Detection[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 16-21.

田鸿朋,张震,张思源,等. 复合可靠性分析下的不平衡数据证据分类. 郑州大学学报（工学版）,2023,44(4):22-28.

Tian Hongpeng, Zhang Zhen, Zhang Siyuan, et al Evidence classification of imbalanced data under composite reliability analysis[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 22-28.

常青,杨程伟,罗彬杰,等. 基于小波变换的扩散焊超声C图像融合算法. 郑州大学学报（工学版）,2023,44(4):54-59,87.

Chang Qing, Yang Chengwei, Luo Binjie, etc Diffusion welding ultrasonic C image fusion algorithm based on wavelet transform[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 54-59,87.

毛玲,赵联文,孟华,等. 基于信源信息熵最小的单通道盲源数估计算法. 郑州大学学报（工学版）,2023,44(4):60-66.

Mao Ling, Zhao Lianwen, Meng Hua, et al Single channel blind source estimation algorithm based on minimizing source information entropy[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 60-66.

赵坤,随旭东,梁静,等. 双无人飞行平台的多传感器规划调度. 郑州大学学报（工学版）,2023,44(4):67-73.

Zhao Kun, Sui Xudong, Liang Jing, et al Multi sensor planning and scheduling for dual unmanned aerial platforms[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 67-73.

于坤杰,杨振宇,乔康加,等. 自适应两阶段大规模约束多目标进化算法. 郑州大学学报（工学版）,2023,44(5):1-9.

Yu Kunjie, Yang Zhenyu, Qiao Kangjia, et al Adaptive two-stage large-scale constrained multi-objective evolutionary algorithm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 1-9.

欧阳聪,关静,杨鸣. 基于资源分配和动态分组的合作协同演化算法. 郑州大学学报（工学版）,2023,44(5):10-16.

Ouyang Cong, Guan Jing, Yang Ming Collaborative Collaborative Evolution Algorithm Based on Resource Allocation and Dynamic Grouping[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 10-16.

申晓宁,毛鸣健,沈如一,等. 基于深度强化学习的大规模敏捷软件项目调度. 郑州大学学报（工学版）,2023,44(5):17-23.

Shen Xiaoning, Mao Mingjian, Shen Ruyi, et al Large scale agile software project scheduling based on deep reinforcement learning[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 17-23.

李晰,李帅,冯艳红,等. 基于联合分布适配的单向迁移差分进化算法. 郑州大学学报（工学版）,2023,44(5):24-31.

Li Xi, Li Shuai, Feng Yanhong, et al Unidirectional Migration Differential Evolution Algorithm Based on Joint Distribution Adaptation[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 24-31.

邓传义,孙超利,刘晓彤,等. 惯性分组和重叠特征选择辅助的昂贵大规模优化算法. 郑州大学学报（工学版）,2023,44(5):32-39.

Deng Chuanyi, Sun Chaoli, Liu Xiaotong, et al An expensive large-scale optimization algorithm assisted by inertial grouping and overlapping feature selection[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 32-39.

张震,陈可鑫,陈云飞. 优化聚类和引入CBAM的YOLOv5管制刀具检测. 郑州大学学报（工学版）,2023,44(5):40-45,61.

Zhang Zhen, Chen Kexin, Chen Yunfei Optimizing Clustering and Introducing CBAM for YOLOv5 Controlled Tool Detection[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 40-45,61.

黄紫娟,涂娟,代尊翔. 基于频率密度的局部离群因子的工频自适应抑制方法. 郑州大学学报（工学版）,2023,44(5):46-52.

Huang Zijuan, Tu Juan, Dai Zunxiang Power frequency adaptive suppression method based on local outlier factor of frequency density[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 46-52.

崔建明,蔺繁荣,张迪,等. 基于有向图的强化学习自动驾驶轨迹预测. 郑州大学学报（工学版）,2023,44(5):53-61.

Cui Jianming, Lin Fanrong, Zhang Di, et al Reinforcement learning for autonomous driving trajectory prediction based on directed graph[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 53-61.

王捷,葛丽娜,张桂芬. 区块链的激励机制权益证明共识算法改进方案. 郑州大学学报（工学版）,2023,44(5):62-68.

Wang Jie, Ge Lina, Zhang Guifen Improvement Scheme for the Equity Proof Consensus Algorithm of Blockchain Incentive Mechanism[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 62-68.

贲可荣，杨佳辉，张献，赵翀. 基于Transformer和卷积神经网络的代码克隆检测. 郑州大学学报(工学版), 2023,44(7):12-18.

Ben Kerong, Yang Jiahui, Zhang Xian, Zhao Chong Code Clone Detection Based on Transformer and Convolutional Neural Networks[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (7): 12-18.

葛丽娜，陈园园，王捷，玉哲. 改进的密度峰值聚类算法的差分隐私保护方案. 郑州大学学报(工学版), 2023,44(8):19-24.

Ge Lina, Chen Yuanyuan, Wang Jie, Yu Zhe Differential privacy protection scheme for improved density peak clustering algorithm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (8): 19-24.

武继刚，李妙君，赵淑平. 基于低秩稀疏表达的弹性最小二乘回归学习. 郑州大学学报(工学版), 2023,44(9):25-32.

Wu Jigang, Li Miaojun, Zhao Shuping Elastic Least Squares Regression Learning Based on Low Rank Sparse Representation[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (9): 25-32.

郑忠龙，曾心，刘华文. 两阶段的近邻密度投票模拟离群点检测算法. 郑州大学学报(工学版), 2023,44(10):33-39.

Zheng Zhonglong, Zeng Xin, Liu Huawen A two-stage nearest neighbor density voting simulation outlier detection algorithm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (10): 33-39.

王晓峰，庞立超，莫淳惠，杨易，赵星宇，杨澜. 可满足性问题的结构特征进展综述. 郑州大学学报(工学版), 2023,44(11):40-47.

Wang Xiaofeng, Pang Lichao, Mo Chunhui, Yang Yi, Zhao Xingyu, Yang Lan A Review of the Structural Characteristics of Satisfiability Problems[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (11): 40-47.

## 智能计算

1. 毛晓波,周晓东,刘艳红. 基于FAST特征点改进的TLD目标跟踪算法[J]. 郑州大学学报（工学版）,2018,39(2):1-5,17.

MAO XB, ZHOU XD, LIU YH. TLD target tracking algorithm based on FAST feature points [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 1-5,17.

1. 曾庆山,冯珊珊. 一种基于改进适应度的多机器人协作策略[J]. 郑州大学学报（工学版）,2018,39(2):6-10.

ZENG QS, F S. A multi-robot collaboration strategy based on improved fitness [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 6-10.

1. 杨文柱,刘晴,王思乐,等. 基于深度卷积神经网络的羽绒图像识别[J]. 郑州大学学报（工学版）,2018,39(2):11-17.

YANG WENZHU, LIU QING, WANG SILI, et al. Down image recognition based on a deep convolutional neural network [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 11-17.

1. 逯鹏,张微,李亚萍,等. 基于网络的视觉皮层演化博弈研究[J]. 郑州大学学报（工学版）,2018,39(2):18-22.

LU P, ZHANG W, LI YP, ET AL. Network-based evolutionary game study of the visual cortex [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 18-22.

1. 高建设,王玉闯,刘德平,等. 新型四足步行机器人串并混联腿的轨迹规划与仿真研究[J]. 郑州大学学报（工学版）,2018,39(2):23-27,38.

Gao Jianshe, Wang Yuchuang, Liu Deping, et al. Trace planning and simulation study of string and mixed legs of a new quadrupedal walking robot [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 23-27,38.

1. 孙峰,龚晓玲,张炳杰,等. 一种基于共轭梯度法的广义单隐层神经网络[J]. 郑州大学学报（工学版）,2018,39(2):28-32.

Sun Feng, Gong Xiaoling, Zhang Bingjie, et al. A generalized single-hidden layer neural network based on the conjugate gradient method [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 28-32.

1. 王忠勇,冯双丽,袁正道,等. 基站协作系统中基于GAMP算法的RZFBF预编码实现[J]. 郑州大学学报（工学版）,2018,39(2):33-38.

Wang Zhongyong, Feng Shuangli, Yuan Zhengdao, et al. Implementation of RZFBF precoding based on GAMP algorithm in the base station collaboration system [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 33-38.

1. 王正阳,詹智民,罗宾,等. 基于网络层次分析法的电网发展诊断模型研究[J]. 郑州大学学报（工学版）,2018,39(2):39-43.

Wang Zhengyang, Zhan Zhimin, Robin, et al. Research on the diagnostic model of power grid development based on the network hierarchical analysis method [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 39-43.

1. 晏晓辉,朱云龙,张智聪,等. 菌群优化方法及其应用研究综述[J]. 郑州大学学报（工学版）,2018,39(5):1-10,21.

Yan Xiaohui, Zhu Yunlong, Zhang Zhicong, et al. Summary of microflora optimization methods and their applications [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 1-10,21.

1. 何敏藩,朱燕麒,贾学卿. 考虑多滑动窗口的中继卫星调度模型及启发式算法[J]. 郑州大学学报（工学版）,2018,39(5):11-21.
2. 刘世光,宋志超. 基于编辑传播的多源图像表观迁移[J]. 郑州大学学报（工学版）,2018,39(5):22-27.

Liu Shiguang, Song Zhichao. Apparent migration of multi-source images based on edit propagation [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 22-27.

1. 何高奇,龚博杰,陈诚,等. VR+药效团:一种交互可视的虚拟筛选系统[J]. 郑州大学学报（工学版）,2018,39(5):28-32.

He Gaoqi, Gong Bojie, Chen Cheng, et al. VR + pharmacophore: an interactive and visual virtual screening system [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 28-32.

1. 张青建,韩建平. 一种基于RGB-D的人体关节点定位方法[J]. 郑州大学学报（工学版）,2018,39(5):33-38.

Zhang Qingjian, Han Jianping. A human joint point localization method based on RGB-D [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 33-38.

1. 梁翊涛,王长波. 基于多元媒体数据的教育舆情情绪可视化[J]. 郑州大学学报（工学版）,2018,39(5):39-44.

Liang Yitao, Wang Changbo. Visualization of educational public opinion emotions based on multiple media data [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 39-44.

1. 张阳,司光亚,王艳正. 面向联合作战的网电对抗态势可视化系统设计与实现[J]. 郑州大学学报（工学版）,2018,39(5):45-51.

Zhang Yang, Si Guangya, Wang Yanzheng. Design and implementation of the situation visualization system for joint operations [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 45-51.

1. 王杰,李胜光,宋一帆,等. 图像去模糊的自适应交替方向乘子重叠组稀疏方法[J]. 郑州大学学报（工学版）,2018,39(5):52-57,78.

Wang Jie, Li Shengguang, Song Yifan, et al. A sparse method of image deblur [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 52-57,78.

1. 段炼,党兰学,李铭,等. 位置数据稀疏约束下的疑犯时空位置预测[J]. 郑州大学学报（工学版）,2018,39(5):58-62.

Duan Lian, Dang LAN Xue, Li Ming, et al. Spatio-temporal location prediction of suspects under sparse constraints of location data [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 58-62.

1. 赵淑芳,董小雨. 基于改进的LSTM深度神经网络语音识别研究[J]. 郑州大学学报（工学版）,2018,39(5):63-67.

Zhao Shufang, Dong Xiaoyu. Based on improved speech recognition of LSTM [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 63-67.

1. 雷文平,吴小龙,陈超宇,等. 基于自动编码器和SVM的轴承故障诊断方法[J]. 郑州大学学报（工学版）,2018,39(5):68-72.

Lei Wenping, Wu Xiaolong, Chen Chaoyu, et al. Bearing fault diagnosis method based on automatic encoder and SVM [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 68-72.

1. 刘艳红,杨东伟. 基于观测器的网络控制系统均方指数稳定控制器设计[J]. 郑州大学学报（工学版）,2018,39(3):10-14.

Liu Yanhong, Yang Dongwei. Design of mean square index stability controller of network control system based on observer [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 10-14.

1. 梁静,刘睿,瞿博阳,等. 进化算法在大规模优化问题中的应用综述[J]. 郑州大学学报（工学版）,2018,39(3):15-21.

Liang Jing, Liu Rui, Qu Boyang, et al. Review of the applications of evolutionary algorithms in large-scale optimization problems [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 15-21.

1. 程适,陈俊风,孙奕菲,等. 数据驱动的发展式头脑风暴优化算法综述[J]. 郑州大学学报（工学版）,2018,39(3):22-28.

Cheng Shi, Chen Junfeng, Sun Yifei, et al. Review of data-driven developmental brainstorming optimization algorithms [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 22-28.

1. 曾庆山,宋庆祥,范明莉. 基于光流共生矩阵的人群行为异常检测[J]. 郑州大学学报（工学版）,2018,39(3):29-33.

Zeng Qingshan, Song Qingxiang, Fan Mingli. Detection of population behavior abnormalities based on the optical flow symbiosis matrix [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 29-33.

1. 吴秀丽,张志强. 求解柔性作业车间调度问题的细菌算法对比及改进[J]. 郑州大学学报（工学版）,2018,39(3):34-39.

Wu Xiuli, Zhang Zhiqiang. Comparison and improvement of the bacterial algorithm for solving the scheduling problem of the flexible operation workshop [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 34-39.

1. 陈中中,杨亚茹,张建飞,等. 基于二次聚类的主动脉弓分割方法[J]. 郑州大学学报（工学版）,2018,39(3):40-44.

Chen Zhongzhong, Yang Yaru, Zhang Jianfei, et al. Aortic arch segmentation method based on secondary clustering [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 40-44.

1. 刘广瑞,王庆海,姚冬艳. 基于改进人工蜂群算法的多无人机协同任务规划[J]. 郑州大学学报（工学版）,2018,39(3):51-55.

Liu Guangrui, Wang Qinghai, Yao Dongyan. Multi-UAV collaborative mission planning based on an improved artificial swarm algorithm [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 51-55.

1. 程适,王锐,伍国华,等. 群体智能优化算法[J]. 郑州大学学报（工学版）,2018,39(6):前插1-前插2,1-2.

Cheng Shi, Wang Rui, Wu Guohua, et al. The swarm Intelligence optimization algorithm [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 1-2,1-2.

1. 毕莹,薛冰,张孟杰. GP算法在图像分析上的应用综述[J]. 郑州大学学报（工学版）,2018,39(6):3-13.

Bi Ying, Xue Bing, Zhang Mengjie. Review of the application of the GP algorithm on image analysis [J]. Journal of Zhengzhou University (Engineering Edition), 2018,39 (6): 3-13.

1. 曾冰,王梦雨,高亮,等. 改进鲸鱼群算法及其在炼钢连铸调度中的应用[J]. 郑州大学学报（工学版）,2018,39(6):14-22,35.

Zeng Bing, Wang Mengyu, Gao Liang, and so on. Improving the whale herd algorithm and its application in steelmaking and continuous casting scheduling [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 14-22,35.

1. 李二超,李进. 两阶段三存档集约束优化算法(TSDA)[J]. 郑州大学学报（工学版）,2018,39(6):23-29.

Li Erchao, Li Jin. Two-stage three-archive set constraint optimization algorithm (TSDA) [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 23-29.

1. 王守娜,刘弘,高开周. 一种应用于函数优化问题的多种群人工蜂群算法[J]. 郑州大学学报（工学版）,2018,39(6):30-35.

Wang Shouna, Liu Hong, Gao Kaizhou. A multi-population artificial swarm algorithm applied to the function optimization problem [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 30-35.

1. 金叶,孙越泓,王加翠,等. 基于单纯形的改进精英人工蜂群算法[J]. 郑州大学学报（工学版）,2018,39(6):36-42.

Golden Ye, Sun Yuehong, Wang Jiacui, et al. Improving the elite artificial bee colony algorithm based on the simplex [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 36-42.

1. 刘振,刘文彪,鲁华杰. 一种量子行为磷虾算法及其仿真分析[J]. 郑州大学学报（工学版）,2018,39(6):43-49.

Liu Zhen, Liu Wenbiao, Lu Huajie. A quantum behavior krill algorithm and its simulation analysis [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 43-49.

1. 李佳华,马连博,王兴伟,等. 基于多目标蜂群进化优化的微电网能量调度方法[J]. 郑州大学学报（工学版）,2018,39(6):50-58.

Li Jiahua, Ma Lianbo, Wang Xingwei, et al. Energy dispatching method for microgrid based on evolutionary optimization of multi-target swarm [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 50-58.

1. 文笑雨,罗国富,李浩,等. 基于广义粒子群优化模型的工艺规划方法研究[J]. 郑州大学学报（工学版）,2018,39(6):59-63,87.

Wen Xiaoyu, Luo Guofu, Li Hao, et al. Research on process planning method based on generalized particle swarm optimization model [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 59-63,87.

1. 张艺琨,唐雁,陈强.基于多特征融合的三维模型检索[J].郑州大学学报(工学版),2019, 40(1):1-6.
ZHANG Y K,TANG Y,CHEN Q.3D model retrieval method based on multiple feature fusion[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):1-6.
2. 李源,张见明,钟玉东,等.一种与时间步长相关的奇异单元细分法[J].郑州大学学报(工学版),2019,40(1):7-11.
LI Y,ZHANG J M,ZHONG Y D ,et al. An singular element subdivision method related to time-Step length[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1): 7-11.
3. 赵双燕,贾金原,周文.Web3D家居素材库的轻量化技术研究[J].郑州大学学报(工学版),2019,40(1):12-17.
ZHAO S Y,JIA J Y,ZHOU W. The research of web3D household repository lightweight technology[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):12-17.
4. 王喆,赵世凤,田沄,等.基于自适应聚类中心的脑血管分割方法[J].郑州大学学报(工学版),2019,40(1):18-23+31.
WANG Z，ZHAO S F，TIAN Y ,et al. Cerebral vessel segmentation based on adaptive clustering centers[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(1): 18-23+31.
5. 逯鹏,李奇航,尚莉伽,等.基于优化极限学习机的CVD预测模型研究[J].郑州大学学报(工学版),2019,40(2):1-5.
LU P,LI Q H,SHANG L J, et al. A CVD prediction model based on optimized extreme learning machine[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):1-5.
6. 李景丽,栗超超,冯鹏.基于ATP-EMTP的某变电站雷击事故仿真研究[J].郑州大学学报(工学版),2019,40(2):6-11.
LI J L,LI C C,FENG P. Simulation study on lightning accident of a substation based on ATP-EMTP[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):6-11.
7. 黄万伟,杜春锋,张建伟,等.支持IPv6试验和部署的新型数据平面结构研究[J].郑州大学学报(工学版),2019,40(2):12-17.
HUANG W W,DU C F,ZHANG J W, et al. Research on new data plane structure supporting IPv6 test and deployment[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(2):12-17.
8. 罗荣辉,袁航,钟发海,等.基于卷积神经网络的道路拥堵识别研究[J].郑州大学学报(工学版),2019,40(2):18-22.
LUO R H,YUAN H,ZHONG F Hi,et al. Traffic jam detection based on convolutional neural network[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):18-22.
9. 张伟伟,高奎,张卫正,等.基于成功历史自适应的混合克隆选择算法[J].郑州大学学报(工学版),2019,40(2):23-28.
ZHANG W W,GAO K,ZHANG W Z, et al. A hybrid clonal selection algorithm based on success-history Adaptation[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):23-28.
10. 徐霜,万强,余琍.基于学习理论的改进粒子群优化算法[J].郑州大学学报(工学版),2019,40(2):29-34.
XU S,WAN Q,YU L. An improved particle swarm optimization algorithm based on learning theory[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):29-34.
11. 吴擎,张春江,高亮.经济负荷分配问题中的约束处理方法研究[J].郑州大学学报(工学版),2019,40(3):36-41.
WU Q,ZHANG C J,GAO L. Study of constraint handling methods in economic load dispatch problem[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):36-41.
12. 蒋佩华,华冰,黄宇,等.基于遗传算法的变质量航天器姿态控制方法[J].郑州大学学报(工学版),2019,40(4):1-7.
JIANG P H，HUA B，HUANG Y el at. The attitude control method of variable mass spacecraft based on genetic algorithm[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):1-7.
13. 闫李,李超,柴旭朝,等.基于多学习多目标鸽群优化的动态环境经济调度[J].郑州大学学报(工学版),2019,40(4):8-14.
YAN L，LI C，CHAI X Z，QU B Y. Dynamic economic emission dispatch based on multiple learning multi-objective pigeon-inspired optimization[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):8-14.¶闫怡汝,王寅
14. 基于鸽群优化的复杂环境下无人机侦查航迹优化[J].郑州大学学报(工学版),2019,40(4):15-19.
YAN Y R，WANG Y. Pigeon-inspired Optimization based trajectory planning method for UAVs in a complex urban environment[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):15-19.
15. 海星朔,徐炳辉,任羿,等.基于改进鸽群优化的机器人自抗扰控制方法[J].郑州大学学报(工学版),2019,40(4):20-24+31.
HAI X S，XU B H，REN Y el at. Robot active disturbance rejection control based on an enhanced pigeon-inspired optimization[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):20-24+31.
16. 尚志刚,王力,李蒙蒙,等.引入迷失探索与集群分裂机制的改进鸽群优化算法[J].郑州大学学报(工学版),2019,40(4):25-31.
SHANG Z G，WANG L，LI M M，el at. Improved pigeon herd optimization algorithm with lost exploration and cluster splitting Mechanism[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):25-31.
17. 马吉明,张嵩,苏日建,等.一种元启发式算法:海岛算法[J].郑州大学学报(工学版),2019, 40(4):54-60.
MA J M，ZHANG S，SU R J，el at. A metaheuristic algorithm: island algorithm[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):54-60.
18. 赵庆岩,黎杰,吴顺,等.基于遗传算法优化的机械臂动态矩阵预测控制[J].郑州大学学报(工学版),2020,41(1):32-37.
ZHAO Q Y,LI J,WU S, et al. Dynamic matrix predictive control of manipulators based on genetic algorithms[J].Journal of Zhengzhou University (Engineering Science),2020, 41(1): 32-37.
19. 张茂清,李东洋,胡博,等.基于维度扰动的快速非支配排序遗传算法Ⅱ[J].郑州大学学报(工学版),2020,41(1):38-43.
ZHANG M Q,LI D Y,HU B, et al. Non-dominated sorting genetic algorithm II based on dimensionality perturbation[J].Journal of Zhengzhou University (Engineering Science),2020, 41(1):38-43.
20. 吕照民,周革,苗晨.基于自适应主成分分析的化工过程在线监测[J].郑州大学学报(工学版),2020,41(1):44-48.
LYU Z M,ZHOU G,MIAO C. Online monitoring of chemical process based on adaptive principal component analysis[J].Journal of Zhengzhou University (Engineering Science),2020,41(01):44-48.
21. 王艳丽,梁静,薛冰,等.基于进化计算的特征选择方法研究概述[J].郑州大学学报(工学版),2020,41(1):49-57.
WANG Y L,LIANG J,XUE B, et al. Research on evolutionary computation for feature selection[J].Journal of Zhengzhou University (Engineering Science),2020,41(01):49-57.
22. 李勇,金庆雨,张青川.融合位置注意力机制和改进BLSTM的食品评论情感分析[J].郑州大学学报(工学版),2020,41(1):58-62.
LI Y,JIN Q Y,ZHANG Q C. Improved BLSTM food review sentiment analysis with positional attention mechanisms[J].Journal of Zhengzhou University (Engineering Science),2020,41(01):58-62.
23. 张建康,赵悠悠,尚应博,等.基于反馈迭代算法的航空通信系统信道估计算法研究[J].郑州大学学报(工学版),2020,41(2):1-6.
ZHANG J K,ZHAO Y Y,SHANG Y B, et al. Feedback-iterative channel estimation algorithm for aeronautical communication system[J].Journal of Zhengzhou University (Engineering Science),2020,41(02):1-6.
24. 魏宏彬,张端金,杜广明,等.基于改进型YOLO v3的蔬菜识别算法[J].郑州大学学报(工学版),2020,41(2):7-12+31.
WEI H B,ZHANG D J,DU G M,et al. Vegetable recognition algorithm based on improved YOLOv3[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):7-12+31.
25. 王翥,刘春龙,罗清华.超声波传感器特性分析与测试方法的研究[J].郑州大学学报(工学版),2020,41(2):13-18.
WANG Z,LIU C L,LUO Q H. Research on ultrasonic sensors characteristics and testing method[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):13-18.
26. 刘华军,张瑞珏,刘建锋,等.基于FPGA的高分辨率视频图像实时增强去雾系统[J].郑州大学学报(工学版),2020,41(2):19-24.
LIU H J,ZHANG R J,LIU J F,et al. High resolution video image real-time enhancement system based on FPGA[J].Journal of Zhengzhou University (Engineering Science),2020, 41(2):19-24.
27. 白国长,姚记亮.基于改进滑模观测器的BLDCM无传感器控制[J].郑州大学学报(工学版),2020,41(2):25-31.
BAI G C,YAO J L. Sensorless Control of BLDCM Based on improved sliding mode observer[J].Journal of Zhengzhou University (Engineering Science),2020,41(02):25-31.
28. 孙晓燕,聂鑫,暴琳,等.基于改进Wide&Deep交互特征提取的移动APP转化率预估[J].郑州大学学报(工学版),2020,41(6):26-32.
SUN X Y,NIE X,BAO L,et al. The mobile APP conversion rate prediction based on improved wide＆deep of interactive feature extraction[J].Journal of Zhengzhou University (Engineering Science),2020,41(06):26-32.
29. 杨文强,张素君,郭昊.求解仓储作业优化问题的多物种协同进化算法[J].郑州大学学报(工学版),2020,41(6):33-39.
YANG W Q,ZHANG S J,GUO H. Operation optimization of warehousing by multispecies co-evolution algorithm[J].Journal of Zhengzhou University (Engineering Science),2020, 41(6): 33-39.
30. 汪慎文,王佳莹,张佳星,等.应用精英档案和反向学习的多目标差分进化算法[J].郑州大学学报(工学版),2020,41(6):40-45+91.
WANG S W,WANG J Y,ZHANG J X,et al. A Multi-objective differential evolution algorithm with elite-archive and opposition-based learning[J].Journal of Zhengzhou University (Engineering Science),2020,41(6):40-45+91.
31. 华一村,刘奇奇,郝矿荣,等.非规则Pareto前沿面多目标进化优化算法研究综述[J].郑州大学学报(工学版),2021,42(1):1-8.
HUA Y，LIU Q Q，HAO K R, et al.A survey of evolutionary algorithms for multi- objective optimization problems with irregular pareto fronts[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):1-8.
32. 汪慎文,张佳星,褚晓凯,等.两阶段搜索的多模态多目标差分进化算法[J].郑州大学学报(工学版),2021,42(1):9-14+110.
WANG S W，ZHANG J X，CHU Xiaokai et al.Multimodal multi-objective differential evolution algorithm based on two-Stage search[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):9-14+110.
33. 程健,安鸿波,郭一楠,等.一种区域知识引导的船舶吃水线动态识别算法[J].郑州大学学报(工学版),2021,42(3):47-52.
CHENG J，AN H B，GUO Y N,et al. Dynamic identification of ship waterline image area based on knowledge guidance[J].Journal of Zhengzhou University (Engineering Science), 2021, 42(3):47-52.
34. 刘倩,冯艳红,陈嶷瑛.基于混沌初始化和高斯变异的飞蛾火焰优化算法[J].郑州大学学报(工学版),2021,42(3):53-58.
LIU Q，FENG Y H，CHEN Y Y.Moth-flame optimization algorithm based on chaotic initialization and gaussian mutation[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):53-58.
35. 郑倩,刘珊,邓璐娟,等.基于平行四边形对角线理论的角点检测算法[J].郑州大学学报(工学版),2021,42(4):19-25.
ZHENG Q，LIU S，DENG L J, et al.Corner detection algorithm based on parallelogram diagonal theory[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):19-25.
36. 苏守宝,赵威,李智.求解加权MTSP问题的CUDA并行群智能方法[J].郑州大学学报(工学版),2021,42(6):34-41.
SU S B，ZHAO W，LI Z.CUDA-based parallel swarm intelligence method for solving weighted MTSP[J].Journal of Zhengzhou University (Engineering Science),2021, 42(6): 34-41.
37. 陈浩杰,黄锦,左兴权,等.基于宽度＆深度学习的基站网络流量预测方法[J].郑州大学学报(工学版),2022,43(1):7-13.
CHEN H J，HUANG J，ZUO X Q, et al. Base station network traffic prediction method based on wide & deep learning[J].Journal of Zhengzhou University (Engineering Science),2022, 43(1):7-13.
38. 李北明,金荣璐,徐召飞,等.基于特征蒸馏的改进 Ghost -YOLOv5红外目标检测算法[J].郑州大学学报(工学版),2022,43(1):20-26.
LI B M，JIN R L，XU Z F, et al. An improved Ghost-YOLOv5 infrared target detection algorithm based on feature distillation[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):20-26.
39. 王恭,孙铭阳,孙汇阳，等.一种基于自适应信息素蒸发系数的 WSN 蚁群路由算法[J].郑州大学学报(工学版),2022,43(1):41-47.
WANG G，SUN M Y，SUN H Y, et al.An adaptive pheromone evaporation coefficient based ant colony routing algorithm for wireless sensor networks[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):41-47.
40. 李琳,李玉泽,张钰嘉,等.基于多估计器平均值的深度确定性策略梯度算法[J].郑州大学学报(工学版),2022,43(2):15-21.
LI L, LI Y Z, ZHANG Y J, WEI, Wei, et al. Deep deterministic policy gradient algorithm based on mean of multiple estimators[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):15-21.
41. 熊伟,李瑞清,陈荤,等.一种基于空间划分树裁剪外包框的空间索引方法[J].郑州大学学报(工学版),2022,43(3):1-7.
XIONG W, LI R Q, CHEN L, et al. A spatial index based on clipping bounding box ofspace partitioning tree[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):1-7.
42. 高岳林,杨钦文,王晓峰,等.新型群体智能优化算法综述[J].郑州大学学报(工学版),2022,43(3):21-30.
GAO Y L, YANG Q W, WANG X F, et al.Overview of new swarm intelligent optimization algorithms[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):21-30.
43. 薛均晓, 武雪程, 王世豪,等. 基于改进YOLOv4的自然人群口罩佩戴检测方法[J]. 郑州大学学报(工学版), 2022, 43(04): 16-22.
XUE J X, WU X C, WANG S H, et al. A Method on Mask Wearing Detection of Natural Population Based on Improved YOLOv4[J]. Journal of Zhengzhou University (Engineering Science), 2022, 43(04): 16-22.
44. 张富强, 白筠妍, 张林朋. 基于生产甘特图的AGV资源约束调度方法[J]. 郑州大学学报(工学版), 2022, 43(04): 23-9.
ZHANG F Q, BAI J Y, ZHANG L P. Scheduling Method with AGV Resource Based on Production Gantt Chart[J]. Journal of Zhengzhou University (Engineering Science), 2022, 43(04): 23-9.
45. 成科扬,荣兰,蒋森林,等.基于深度学习的遥感图像超分辨率重建方法综述[J].郑州大学学报(工学版),2022,43(05):8-16.
CHENG K Y, RONG L, JIANG S L, et al. Overview of Methods for Remote Sensing Image Super-resolution Reconstruction Based on Deep Learning[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):8-16.
46. 贾云飞,郑红木,刘闪亮.基于YOLOv5s的金属制品表面缺陷的轻量化算法研究[J].郑州大学学报(工学版),2022,43(05):31-8.
JIA Y F, ZHENG H M, LIU S L. Lightweight Surface Defect Detection Method of Metal Products Based on YOLOv5s[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):31-8.
47. 杨起,刘牧耕,马郓.一种面向UI手稿识别的数据集制作方法[J].郑州大学学报(工学版),2022,43(06):1-7+14.
YANG Q, LIU M G, MA Y. An Efficient Approach to Creating Hand Drawn Dataset for UI Manuscript Recognition[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):1-7+14.
48. 王培崇,尹欣洁,李丽荣.一种具有学习机制的海鸥优化算法[J].郑州大学学报(工学版),2022,43(06):8-14.
WANG P C, YIN X J, LI L R. An Improved Seagull Optimization Algorithm with Learning[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):8-14.
49. 黄东强,黄建强,贾金芳,等.基于CPU+GPU异构并行的广义共轭余差算法性能优化[J].郑州大学学报(工学版),2022,43(06):15-21.
HUANG D Q, HUANG J Q, JIA J F, et al. Performance Optimization of GCＲ in GRAPES Based on CPU+GPU Heterogeneous Parallel[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):15-21.
50. 黄骅,江俊,杨永康,等.一种收益最大化的服务功能链优化编排算法[J].郑州大学学报(工学版),2022,43(06):22-9.
HUANG H, JIANG J, YANG Y K, et al. A Profit Maximization Services Function Chain Orchestration Algorithm [J]. Journal of Zhengzhou University (Engineering Science),2022,43(06):22-9.
51. 周澳回,翁知远,周思源,等.一种基于主题过滤和语义匹配的服务发现方法[J].郑州大学学报(工学版),2022,43(06):36-41+56.
ZHOU A H, WENG Z Y, ZHOU S Y, et al. A Service Discovery Method Based on Topic Filtering and Semantic Matching[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):36-41+56.
52. 王军芬,刘培跃,董建彬,等.用于分割无损检测图像的快速模糊C均值算法[J].郑州大学学报(工学版),2022,43(06):42-8.
WANG J F, LIU P Y, DONG J B, et al. Fast Fuzzy C Means Algorithm for Segmentation of Non-destructive Testing Image[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):42-8.

## 电气工程

1. 魏超峰,李琼林,蒋建东,等. 计及谐波因素的配电网损耗量化计算与建模仿真[J]. 郑州大学学报（工学版）,2018,39(1):53-58,66.

Wei Chaofeng, Li Qionglin, Jiang Jiandong, et al. Quantification calculation and modeling and simulation of distribution network loss for harmonic factors [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 53-58,66.

1. 夏星宇,高浩,王创业. 均衡策略粒子群算法在图像分割中的应用[J]. 郑州大学学报（工学版）,2018,39(1):59-66.

Xia Xingyu, Gao Hao, Wang Chuangye. Application of equalization strategy particle swarm algorithm in image segmentation [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 59-66.

1. 吴华春,杨石平. 基于洛伦兹力的无轴承电机优化与特性分析[J]. 郑州大学学报（工学版）,2018,39(1):67-72.

Wu Huachun, Yang Shiping. Optimization and characterization of non-bearing motors based on Lorentz force [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 67-72.

1. 穆瑞杰. 基于遗传算法的地铁车站引导标识布点探析[J]. 郑州大学学报（工学版）,2018,39(1):73-77,89.

Murjet. Analysis of guided signs based on genetic algorithm [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 73-77,89.

1. 梁亮,詹智民,邓小磊,等. 基于电导增量法的太阳能光伏阵列MPPT仿真[J]. 郑州大学学报（工学版）,2018,39(6):88-92.

Liang Liang, Zhan Zhimin, Deng Xiaolei, et al. MPPT simulation of solar photovoltaic array based on conductance increment method [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 88-92.

1. 逯鹏,张利朋,胡玉霞,等. 基于脑电图的三分类前臂运动方向解析[J]. 郑州大学学报（工学版）,2018,39(6):93-96.

Lu Peng, Zhang Lipeng, Hu Yuxia, et al. EEG-based resolution of triclassified forearm motion direction [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 93-96.

1. 朱晓东,袁坤杰,王艳玲. 基于隐马尔科夫模型的石油钻井事故预警方法[J]. 郑州大学学报（工学版）,2018,39(4):51-57.

Zhu Xiaodong, Yuan Kunjie, Wang Yanling. Early warning method for oil drilling accidents based on the Hidden Markov Model [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 51-57.

1. 张振,刘艳红. 基于特征值的单机无穷大电力系统随机稳定性分析[J]. 郑州大学学报（工学版）,2018,39(4):58-63.

Zhang Zhen, Liu Yanhong. Stochastic stability analysis of a single-machine infinite power system based on eigenvalue [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 58-63.

1. 逯鹏,牛新,刘素杰,等. 运动准备电位单次检测技术研究[J]. 郑州大学学报（工学版）,2018,39(4):70-74.

Lu P, NIU X, LIU SJ,et al. Research on the single-pass detection technology of motion preparation potential [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 70-74.

1. 张红斌,王克文.采用模块化求解的主动配电网优化运行[J].郑州大学学报(工学版),2019,40(1):24-31.
ZHANG H B,WANG K W. Optimal operation of active distribution network using modular solution[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):24-31.
2. 章健,熊壮壮,王明东,等.基于二阶锥规划的主动配电网动态无功优化[J].郑州大学学报(工学版),2019,40(1):32-37.
ZHANG J,XIONG Z Z,WANG M D. Dynamic reactive power optimization in active distribution network based on second-order cone programming[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):32-37.
3. 张震,沈学珂,程欣.永磁同步电机全速范围内无位置传感器控制[J].郑州大学学报(工学版),2019,40(2):35-40.
ZHANG Z,SHEN X K,CHENG X. Sensorless control of permanent magnet synchronous motor in full speed range[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(2):35-40.
4. 檀盼龙,李益敏,赵相宾,等.线性扩张状态观测滤波器的分析与应用[J].郑州大学学报(工学版),2019,40(2):41-47.
TAN P L,LI Y M,ZHAO X B,et al. Analysis and application of linear extended state observer filter[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):41-47.
5. 纪勇,刘丹丹,罗勇,等.基于霍夫投票的变电站设备三维点云识别算法[J].郑州大学学报(工学版),2019,40(3):1-6+12.
JI Y,LIU D D,LUO Y,et al. Recognition of three-dimensional substation equipment based on hough transform[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):1-6.
6. 朱晓东,王颖,杨之乐,等.启发式多目标优化算法在能源和电力系统中的典型应用综述[J].郑州大学学报(工学版),2019,40(5):1-12.
ZHU X D，WANG Y，YANG Z L el at. A survey of featured applications of heuristic multi-objective optimization algorithms in power and energy systems[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):1-12.
7. 朱俊丞,杨之乐,郭媛君,等.深度学习在电力负荷预测中的应用综述[J].郑州大学学报(工学版),2019,40(5):13-22.
ZHU J C，YANG Z L，GUO Y J el at.Deep learning applications in power system load forecasting: a survey[J].Journal of Zhengzhou University (Engineering Science), 2019, 40(5):13-22.
8. 马民,秦佳,杨东升,等.人工智能在电力系统中的应用综述[J].郑州大学学报(工学版),2019,40(5):23-31.
MA M，QIN J，YANG D S，ZHOU B W el at. Review on the application of artificial intelligence in power systems[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):23-31.
9. 李雪,宋彦龙.蓄电池储能运行控制对有源配电网影响研究[J].郑州大学学报(工学版),2019,40(5):32-38+51.
LI X，SONG Y Y .Study on the influence of battery energy storage operation control on active distribution network[J].Journal of Zhengzhou University (Engineering Science),2019, 40(5):32-38+51.
10. 高金峰,庞昊,杜耀恒.基于GRU网络的配电网故障数量等级预测方法[J].郑州大学学报(工学版),2019,40(5):39-44.
GAO J F，PANG Hao，DU Yaoheng.A method for predicting the number of faults in distribution network based on RGU neural network[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):39-44.
11. 尹诗,侯国莲,于晓东,等.基于Bi-RNN的风电机组主轴承温度预警方法研究[J].郑州大学学报(工学版),2019,40(5):45-51.
YIN S，HOU G L，YU X D, el at.Research on temperature prediction method for main bearing of wind turbine based on Bi-RNN[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):45-51.
12. 侯国莲,郭雅迪,弓林娟.基于灰狼优化算法的多源互联电力系统负荷频率控制[J].郑州大学学报(工学版),2019,40(5):52-58.
HOU G L，GUO Y D，GONG L J. Load frequency control of multi-source power system based on grey wolf optimization[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):52-58.
13. 樊一娜,梁伟,黄渝清,等.基于IGA的配电系统运行损耗与可靠性优化[J].郑州大学学报(工学版),2019,40(5):59-64.
FAN Y，LIANG W，HUANG Y Q ,el at. Loss and reliability optimization for power distribution system operation on improved genetic algorithms[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):59-64.
14. 马兴,李俊杰,黎博,等.分布式储能参与电压暂降补偿的优化配置与控制策略[J].郑州大学学报(工学版),2019,40(5):65-72.
MA X，LI J J，LI B ,el at. Optimal allocation and control strategy of distributed energy storage system for compensating voltage sag[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):65-72.
15. 薛金花,王德顺,郁正纲,等.基于风电可调节不确定代价的风光柴储联合优化调度[J].郑州大学学报(工学版),2019,40(5):73-79.
XUE J H，WANG D S，YU Z G, el at. A dispatching strategy for isolated island micro-grid based on adjustable wind power uncertain cost[J].Journal of Zhengzhou University (Engineering Science),2019,40(5):73-79.
16. 高金峰,秦瑜瑞,殷红德.基于小波包变换和支持向量机的故障选线方法[J].郑州大学学报(工学版),2020,41(1):63-69.
GAO J F,QIN Y R,YIN H D. Fault line selection based on wavelet packet transform and support vector machine[J].Journal of Zhengzhou University (Engineering Science),2020, 41(1):63-69.
17. 王克文,刘凯,刘艳红.计及功率预测误差的主动配电网运行方式优化[J].郑州大学学报(工学版),2020,41(1):75-82.
WANG K W,LIU K,LIU Y H. Optimization of run mode of active distribution network with power prediction error[J].Journal of Zhengzhou University (Engineering Science),2020, 41(1):75-82.
18. 章健,张玉晓,熊壮壮,等.计及DR的新能源配电网电压无功协调优化[J].郑州大学学报(工学版),2020,41(2):61-66.
ZHANG J,ZHANG Y X,,XIONG Z Z,et al. Voltage reactive power coordination optimization of distributed new energy network considering DR[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):61-66.
19. 贾茹宾,高金峰.基于ARIMA模型的变压器油中溶解气体含量时间序列预测方法[J].郑州大学学报(工学版),2020,41(2):67-72.
JIA R B,GAO J F. Time Series prediction method of dissolved gas content in transformer oil based on ARIMA model[J].Journal of Zhengzhou University (Engineering Science),2020, 41(02):67-72.
20. 张青林,辛小南,程志平.基于深度优先搜索和灰狼算法的微电网重构[J].郑州大学学报(工学版),2020,41(2):73-79.
ZHANG Q L,XIN X N,CHENG Z P. Optimization method based on depth-first search and grey wolf optimization algorithm for reconfiguration of microgrid[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):73-79.
21. 贺占蜀,陈雷,王武军,等.基于ABAQUS的中央电气接线盒温度场分析[J].郑州大学学报(工学版),2020,41(4):68-73.
HE Z S,CHEN L,WANG W J,et al. Analysis of temperature field for central electric junction box based on ABAQUS[J].Journal of Zhengzhou University (Engineering Science),2020, 41(04):68-73.
22. 程显,朱剑鹏,赵海洋,等.雷电冲击对一二次融合成套开关电磁干扰研究[J].郑州大学学报(工学版),2020,41(4):74-80.
CHENG X,ZHU J P,ZHAO H Y,et al. Research on electromagnetic interference of lightning impact test of primary and secondary distribution switches[J].Journal of Zhengzhou University (Engineering Science),2020,41(04):74-80.
23. 陈强,王骅,王克文,等.大容量调相机PSVR参数调整[J].郑州大学学报(工学版),2020, 41(4):81-86.
CHEN Q,WANG H,WANG K W,et al. PSVR parameters adjustment on large capacity synchronous condensers[J].Journal of Zhengzhou University (Engineering Science),2020, 41(04):81-86.
24. 邓立宝,吴怡然,郭苏.基于分解多目标进化的椭圆定日镜场布局[J].郑州大学学报(工学版),2020,41(5):37-43.
DENG L B,WU Y R,GUO S.Elliptical heliostat field layout optimization based on MOEA/D[J].Journal of Zhengzhou University (Engineering Science),2020,41(05):37-43.
25. 张颖超,成金杰,邓华,等.基于相似日和特征提取的短期风电功率预测[J].郑州大学学报(工学版),2020,41(5):44-49.
ZHANG Y C,CHENG J J,DENG H,et al.Short-Term wind power prediction based on similar day and feature extraction[J].Journal of Zhengzhou University (Engineering Science),2020, 41(5): 44-49.
26. 段俊东,付子恒,张普胜,等.平滑含DG配网功率波动的储能容量优化研究[J].郑州大学学报(工学版),2020,41(5):50-54.
DUAN J D,FU Z H,ZHANG P S,et al. Optimized study of energy storage systems capacity for power smoothing of distribution containing DG[J].Journal of Zhengzhou University (Engineering Science),2020,41(05):50-54.
27. 章健,张玉晓,朱永胜,等.计及DR的电-气综合能源系统的鲁棒优化调度[J].郑州大学学报(工学版),2020,41(6):66-72.
ZHANG J,ZHANG Y X,ZHU Y S,et al. Robust optimal dispatch of electric-gas integrated energy system considering with demand response[J].Journal of Zhengzhou University (Engineering Science),2020,41(06):66-72.
28. 李德威,宰祥卫,张胜,等.基于模糊灰理论的ZPW-2000A轨道电路风险评估[J].郑州大学学报(工学版),2020,41(6):73-78.
LI D W,ZAI X W,ZHANG S, et al. Risk assessment of ZPW-2000A track circuit based on fuzzy grey theory[J]. Journal of Zhengzhou University (Engineering Science),2020, 41(6): 73-78.
29. 史如新,王德顺,余涛,等.基于NARX神经网络-小波分解光伏发电功率预测[J].郑州大学学报(工学版),2020,41(6):79-84.
SHI R X,WANG D S,YU T,et al. Prediction of photovoltaic power generation based on NARX neural network-wavelet decomposition[J].Journal of Zhengzhou University (Engineering Science),2020,41(6):79-84.
30. 王克文,冶梦雨,刘艳红.建立电力系统状态空间方程的并行方法[J].郑州大学学报(工学版),2021,42(1):15-20.
WANG K W，YE M Y，LIU Y H.Parallel method for establishing state space equation of power system[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):15-20.
31. 廖晓辉,陈川川.改进的VMD-HT在电能质量扰动检测中的应用[J].郑州大学学报(工学版),2021,42(1):21-27.
LIAO X H，CHEN C C.Application of improved VMD-HT in power quality disturbance Detection[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):21-27.
32. 朱兴龙,曹毓,马倩,等.斑点轮廓中心坐标值鲁棒性研究及去噪算法实现[J].郑州大学学报(工学版),2021,42(4):63-69.
ZHU X l，CAO Y，MA Q ,et al.Robustness research of center coordinate value for speckle contour and de-noising algorithm implementation[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):63-69.
33. 周坤雨,岳宁宁,邱柯妮.自供能系统中可配置DC-DC转换器的设计[J].郑州大学学报(工学版),2021,42(4):70-76+97.
ZHOU K Yu，YUE N N，QIU K N.A reconfigurable DC-DC converter design for energy-harvesting system[J].Journal of Zhengzhou University (Engineering Science),2021, 42(4):70-76+97.
34. 陈炳煌,缪希仁,江灏,等.融合粒子群与极限学习机的输电杆塔灾害分类方法[J].郑州大学学报(工学版),2021,42(4):77-83.
CHEN B H，MIAO X R，JIANG H ,et al.A method for disaster status classification of transmission line towers by integrating particle swarm optimization and extreme learning machine[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):77-83.
35. 王明东,周威,李晓蕾,等.模块化多电平矩阵换流器准比例谐振控制研究[J].郑州大学学报(工学版),2021,42(5):86-91.
WANG M D，ZHOU W，LI X L, et al.Research on quasi-proportional resonant control of modular multilevel matrix converter[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):86-91.
36. 孟庆龙,王文强,李为林,等.商业建筑HVAC电力需求响应综述与分析[J].郑州大学学报(工学版),2021,42(5):92-99.
MENG Q L，WANG W Q，LI W L, et al.HVAC demand response in commercial buildings: a review[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):92-99.
37. 王金凤,张惠惠,祝方圆.基于典型场景集的高比例风电系统运行灵活性评估[J].郑州大学学报(工学版),2021,42(6):93-98.
WANG J F，ZHANG H H，ZHU F Y.Evaluation of system operational flexibility of high proportion wind power system based on the typical scene set[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):93-98.

罗勇，苌静，元千金，王亚菲. 一种快速变电站设备三维点云识别方法. 郑州大学学报（工学版）,2023,44(3):62-68.

Luo Yong, Chang Jing, Yuan Qianjin, Wang Yafei A Fast 3D Point Cloud Recognition Method for Substation Equipment[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 62-68.

邢鹏翔,贾璇悦,许长清,等. 基于功率匹配和自适应惯性的VSG预同步控制方法. 郑州大学学报（工学版）,2023,44(3):69-75.

Xing Pengxiang, Jia Xuanyue, Xu Changqing, et al VSG pre synchronization control method based on power matching and adaptive inertia[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 69-75.

滕志军,李梦,谷金亮,等. 融合多指标的WSN动态信任评估预测模型. 郑州大学学报（工学版）,2023,44(3):76-82.

Teng Zhijun, Li Meng, Gu Jinliang, etc A WSN Dynamic Trust Evaluation and Prediction Model Integrating Multiple Indicators[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 76-82.

李景丽,任俊跃,袁豪,等. 基于小波分析的配电网电弧接地故障选线方法. 郑州大学学报（工学版）,2023,44(5):69-76,107.

Li Jingli, Ren Junyue, Yuan Hao, et al A Method for Selecting Arc Grounding Fault Lines in Distribution Networks Based on Wavelet Analysis[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 69-76107.

陈婧华,张琳娟,卢丹,等. 基于改进粒子群优化算法的分布式电源集群划分方法. 郑州大学学报（工学版）,2023,44(5):77-85.

Chen Jinghua, Zhang Linjuan, Lu Dan, et al A Distributed Power Cluster Partition Method Based on Improved Particle Swarm Optimization Algorithm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 77-85.

高超,刘泽辉,曹栋,等. 基于1DCNN-BiLSTM的电力电缆故障诊断. 郑州大学学报（工学版）,2023,44(5):86-92.

Gao Chao, Liu Zehui, Cao Dong, et al Power cable fault diagnosis based on 1DCNN-BiLSTM[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 86-92.

司纪凯，刘世班，聂瑞，王培欣，苏鹏. 两自由度电机控制策略综述及发展动态分析. 郑州大学学报(工学版), 2023,44(6):1-11.

Si Jikai, Liu Shiban, Nie Rui, Wang Peixin, Su Peng Overview and Development Dynamic Analysis of Two Degree of Freedom Motor Control Strategies[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (6): 1-11.

王要强，杨志伟，王义，王克文，梁军. 计及噪声和模型参数不确定的发电机动态状态估计. 郑州大学学报(工学版), 2023,44(15):68-75.

Wang Yaoqiang, Yang Zhiwei, Wang Yi, Wang Kewen, Liang Jun Dynamic State Estimation of Generators Considering Noise and Model Parameter Uncertainty[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (15): 68-75.

李虹伟，荆浩捷，吴磊，李婷玉. 基于能量枢纽可变能量效率的电热网优化运行. 郑州大学学报(工学版), 2023,44(16):76-83.

Li Hongwei, Jing Haojie, Wu Lei, Li Tingyu Optimal operation of electric heating networks based on variable energy efficiency of energy hubs[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (16): 76-83.

宋磊，陆春光，刘琳，刘世芳，王要强. 基于修正安时积分法的磷酸铁锂电池荷电状态估计. 郑州大学学报(工学版), 2023,44(17):84-90.

Song Lei, Lu Chunguang, Liu Lin, Liu Shifang, Wang Yaoqiang State of Charge Estimation of Lithium Iron Phosphate Batteries Based on Modified Ampere-hour Integration Method[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (17): 84-90.

## 机械与能源动力

1. 王建明,何讯超,郑林彬. 搅拌罐内流场及脱硫剂分散数值模拟[J]. 郑州大学学报（工学版）,2018,39(1):78-83.

Wang Jianming, He Xunchao, Zheng Linbin. Numerical simulation of the internal flow field and the desulfurizer dispersion in the mixing tank [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 78-83.

1. 宋明,和兴锁,闫业毫,等. 含扁率的希尔型三体系统太阳帆悬浮轨道设计[J]. 郑州大学学报（工学版）,2018,39(3):56-61

Song Ming, and Xingsuo, Yan Yehao, etc. Design of solar sail suspension orbit of hill three-body system with flat rate [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 56-61

1. 任子晖,渠虎,王翠,等. 基于补充总体局部均值分解的轴承故障诊断方法[J]. 郑州大学学报（工学版）,2018,39(3):62-66.

Ren Zihui, Qu Hu, Wang Cui, et al. Bearing fault diagnosis method based on supplementary overall local mean decomposition [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 62-66.

1. 万一品,宋绪丁,陈乐乐. 装载机工作装置载荷测试样本长度确定方法[J]. 郑州大学学报（工学版）,2018,39(3):67-71.

Wan Yipin, Song Xuding, Chen Lele. Method for Loader Load Testing [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 67-71.

1. 卢晓明,贾建军,周成林,等. 1m口径空间相机主望远镜组件设计[J]. 郑州大学学报（工学版）,2018,39(3):72-76,86.

Lu Xiaoming, Jia Jianjun, Zhou Chenglin, et al. Design of the main telescope assembly of the 1m aperture space camera [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 72-76,86.

1. 宋景芬,夏伟,邓小禾,等. 乘用车驻车制动自动装调系统研究[J]. 郑州大学学报（工学版）,2018,39(3):77-81.

Song Jingfen, Xia Wei, Deng Xiaohe, et al. Research on the parking brake automatic installation and adjustment system for passenger vehicles [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 77-81.

1. 赵华东,江南,雷超帆. 基于差速驱动的AGV驱动单元分析与改进设计[J]. 郑州大学学报（工学版）,2018,39(5):73-78.

Zhao Huadong, Jiangnan, Lei Chaofan. Analysis and improved design of AGV drive unit based on differential drive [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 73-78.

1. 王建明,邱钦宇,何讯超. 搅拌罐内基于EDEM-FLUENT耦合的多相流混合数值模拟[J]. 郑州大学学报（工学版）,2018,39(5):79-84.

Wang Jianming, Qiu Qiyu, He Xunchao. Numerical simulation of multiphase flow mixing based on EDEM-FLUENT coupling in the mixing tank [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 79-84.

1. 车玉思,王成铎,孙玉福,等. 大型竖式还原罐壁面温度分布特性研究[J]. 郑州大学学报（工学版）,2018,39(3):87-92.

Che Yusi, Wang Chengduo, Sun Yufu, et al. Study on temperature distribution characteristics of wall surface of large vertical reduction tank [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 87-92.

1. 沈超,余鹏,杨建中,等. 基于CFD的电动汽车驱动电机冷却流道对比研究[J]. 郑州大学学报（工学版）,2018,39(4):41-45,69.

Shen Chao, Yu Peng, Yang Jianzhong, et al. Comparative study on the cooling flow channel of electric vehicle drive motor based on CFD [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 41-45,69.

1. 李凌均,金兵,马艳丽,等. 基于MEMD与MMSE的滚动轴承退化特征提取方法[J]. 郑州大学学报（工学版）,2018,39(4):86-91.

Li Lingjun, Jin Bing, Ma Yanli, et al. Degeneration feature extraction method of rolling bearings based on MEMD and MESE [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 86-91.

1. 张三川,郭向利,田金坤. 汽车鼓式制动器的多工况热?力耦合仿真分析[J]. 郑州大学学报（工学版）,2018,39(4):92-96.

Zhang Sanchuan, Guo Xiangli, Tian Jinkun. Multi-working condition heat of automobile drum brake? Force-coupling simulation analysis [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 92-96.

1. 王建明,李潇潇.动车水箱疲劳振动试验及数值模拟研究[J].郑州大学学报(工学版),2019,40(1):72-76+82.
WANG J M, LI X X. Study on vibration fatigue test and numerical simulation of EMU tank[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):72-76.
2. 吴金星,刘少林,彭旭.绕管式换热器壳侧流动及传热模拟与实验研究[J].郑州大学学报(工学版),2019,40(1):77-82.
WU J J,LIU S L,PENG X. Study on numerical simulation and experiment on fluid flow and heat transfer in shell side of the spiral tube heat exchanger[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):77-82.
3. 郝伟,林辉翼,郝旺身,等.基于全矢稀疏编码的滚动轴承故障识别方法[J].郑州大学学报(工学版),2019,40(3):31-35+47.
HAO W,LIN H Y,HAO W S, et al. Fault recognition method of rolling bearing based on full vector sparse coding[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):31-35.
4. 王永庆,王芳芳,古新,等.缠绕螺纹管螺旋折流板换热器流动与传热数值分析[J].郑州大学学报(工学版),2019,40(4):92-96.
WANG Y Q，WANG F F，GU X, el at. Numerical analysis of flow and heat transfer characteristics of helical baffle heat exchanger with winding threaded tubes[J].Journal of Zhengzhou University (Engineering Science),2019,40(4):16.
5. 夏伯乾,徐梦霞.线接触弹流状态下摩擦副的刚度阻尼研究[J].郑州大学学报(工学版),2019,40(6):68-72+78.
XIA B Q，XU M X. Study on dynamic characteristics of friction pairs in line contact EHL condition[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):68-72.
6. 陶征,毛松磊,郭勤涛,等.响应面法在磨机传动系统分层修正中的应用[J].郑州大学学报(工学版),2019,40(6):73-78.
TAO Z，MAO S L，GUO Qi T ,el at. Application of response surface method to the hierarchical correction of mill transmission system[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):73-78.
7. 吴国栋,张爱梅,黄晓,等.基于多特征融合的运动车辆阴影去除算法[J].郑州大学学报(工学版),2019,40(6):79-83.
WU G D，ZHANG A M，HUANG X el at.Shadow removal algorithm for moving vehicles based on multi-feature fusion [J].Journal of Zhengzhou University (Engineering Science),2019,40(6):79-83.
8. 陈静,徐延海,朱鹏兴,等.基于Trucksim整车操纵稳定性影响参数的研究[J].郑州大学学报(工学版),2020,41(1):13-19.
CHEN J,XU Y H,ZHU P X,et al. Research on vehicle handling stability affected parameters based on trucksim[J].Journal of Zhengzhou University (Engineering Science),2020,41(1): 13-19.
9. 马泳涛,安乐乐,张伦敦,等.水射流工艺对渗碳钢圆棒表层改性影响的研究[J].郑州大学学报(工学版),2020,41(1):91-96.
MA Y T,AN L L,ZHANG L D,et al. Study on the influence of water jet modification process on carburized steel round bars[J].Journal of Zhengzhou University (Engineering Science), 2020,41(01):91-96.
10. 高祥林,王建明,汪言,等.升降平台运动构件焊缝疲劳寿命数值仿真[J].郑州大学学报(工学版),2020,41(2):32-37.
GAO X L,WANG J M,WANG Y,et al. Numerical simulation of weld fatigue life of moving components of lifting platform[J].Journal of Zhengzhou University (Engineering Science), 2020,41(02):32-37.
11. 王刚,宋建,张建伟,等.基于多晶体模型的18CrNiMo7-6合金钢本构参数确定[J].郑州大学学报(工学版),2020,41(2):38-43.
WANG G,SONG J,ZHANG J W,et al. Constitutive parameters of 18CrNiMo7-6 alloy determined by a polycrystalline model[J].Journal of Zhengzhou University (Engineering Science),2020,41(02):38-43.
12. 刘治华,张天增,杨孟俭,等.超声滚压18CrNiMo7-6齿轮钢表面变质层性能分析[J].郑州大学学报(工学版),2020,41(2):44-49+79.
LIU Z H,ZHANG T Z,YANG M J, et al. Performance analysis of surface modification layer of 18CrNiMo7-6 gear steel treated by ultrasonic rolling[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):44-49+79.
13. 张志刚,周翔,房占鹏,等.基于绝对节点坐标方法的柔顺机构动力学建模与仿真[J].郑州大学学报(工学版),2020,41(2):50-55.
ZHANG Z G,ZHOU X,FANG Z P, et al. Dynamics Modeling and simulation of compliant mechanisms using absolute nodal coordinate formulation[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):50-55.
14. 秦盛伟,张玉芳,张棒.18CrNiMo7-6钢渗碳仿真扩散系数模型的研究[J].郑州大学学报(工学版),2020,41(2):56-60.
QIN S W,ZHANG Y F,ZHANG B. Study on diffusion coefficient of carburizing process simulation of 18CrNiMo7-6 steel[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):56-60.
15. 张三川,苗帅宾.基于热仿真的动力电池箱结构紧凑化参数优化[J].郑州大学学报(工学版),2020,41(3):37-41.
ZHANG S C,MIAO S B. Compact design parameters optimization of power battery box structure in electric vehicle based on thermal simulation[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):37-41.
16. 徐一村,张磊.基于ADAMS的平底从动件凸轮轮廓曲线设计[J].郑州大学学报(工学版),2020,41(3):42-46.
XU Y C,ZHANG L. Design of cam profile curve of flat bottom follower based on ADAMS[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):42-46.
17. 邱正新,刘本学,张赛鹏,等.GW46-126高压隔离开关耐温性试验研究[J].郑州大学学报(工学版),2020,41(3):47-52.
QIU Z X,LIU B X,ZHANG S P, et al. Experimental Study on temperature resistance of GW46-126 high voltage isolation switch[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):47-52.
18. 刘竹丽,陈赟,王祝新.齿面残余应力对齿轮轮齿弯曲疲劳寿命的影响分析[J].郑州大学学报(工学版),2020,41(3):53-56.
LIU Z L,CHEN Y,WANG Z X. The influence of residual stress of tooth surface on bending fatigue life of gear tooth[J].Journal of Zhengzhou University (Engineering Science),2020, 41(3):53-57.
19. 周洋,徐改姣,李大磊.轴与齿轮过盈配合参数对齿形的影响研究[J].郑州大学学报(工学版),2020,41(3):57-61.
ZHOU Y,XU G J,LI D L. Research on the influence of interference fit parameters of shaft and gear on tooth profile[J].Journal of Zhengzhou University (Engineering Science),2020, 41(3):57-61.
20. 徐刚,梁帅,刘武发,等.流动聚焦型微流控芯片微通道结构优化[J].郑州大学学报(工学版),2020,41(4):87-91.
XU G,LIANG S,LIU W F, et al. Optimization of micro-channel structure of flow focusing microfluidic chip[J].Journal of Zhengzhou University (Engineering Science),2020, 41(4): 87-91.
21. 雷文平,宋圣霖,郝旺身,等.基于FV-FBE的滚动轴承故障诊断研究[J].郑州大学学报(工学版),2020,41(5):82-86.
LEI W P,SONG S L,HAO W S, et al. Fault diagnosis of rolling bearing based on FV-FBE[J]. Journal of Zhengzhou University (Engineering Science),2020,41(05):82-86.
22. 房占鹏,张孟珂,李宏伟.平稳随机激励下约束阻尼结构布局优化设计[J].郑州大学学报(工学版),2020,41(5):87-91.
FANG Z P, ZHANG M K, LI H W. Layout optimization of constrained layer damping structure under stationary random excitation[J].Journal of Zhengzhou University (Engineering Science), 2020, 41(5):87-91.
23. 郝旺身,陈耀,孙浩,等.基于全矢-CNN的轴承故障诊断研究[J].郑州大学学报(工学版),2020,41(5):92-96.
HAO W S,CHEN Y,SUN H, et al. Bearing Fault Diagnosis based on full vector-CNN[J]. Journal of Zhengzhou University (Engineering Science),2020,41(05):92-96.
24. 许贤泽,王星宇,刘盼盼,等.光纤棒机床自动定位与对准装置[J].郑州大学学报(工学版),2020,41(6):1-6.
XU X Z,WANG X Y,LIU P P,et al. The Automatic location and alignment device for optical fiber preform machine tools[J].Journal of Zhengzhou University (Engineering Science),2020, 41(06):1-6.
25. 李阳,彭笑永,李大磊,等.激光超声无损测量40Cr钢渗氮层深度的实验研究[J].郑州大学学报(工学版),2020,41(6):7-12.
LI Y,PENG X Y,LI D L,et al. Experimental investigation on non-destructive measuring of the nitriding thickness of 40Cr steel by laser ultrasonic[J].Journal of Zhengzhou University (Engineering Science),2020,41(6):7-12.
26. 张三川,叶建明,师艳娟.基于毫米波雷达的汽车前防撞预警系统设计[J].郑州大学学报(工学版),2020,41(6):13-18.
ZHANG S C,YE J M,SHI Y J.Design of vehicle forward collision warning system based on millimeter wave radar[J].Journal of Zhengzhou University (Engineering Science),2020,41(6): 13-18.
27. 曾发林,蔡嘉伟,孙苏民.基于CEEMD样本熵和GA-BP的排气噪声声品质预测[J].郑州大学学报(工学版),2020,41(6):19-25.
ZENG F L,CAI J W,SUN S M.Sound Quality prediction for exhaust noise based on CEEMD sample entropy and GA-BP[J].Journal of Zhengzhou University (Engineering Science),2020,41(6):19-25.
28. 梅盛开,李松,袁伟,等.基于样件测试法的五轴机床误差辨识方法[J].郑州大学学报(工学版),2021,42(1):94-98.
MEI S K，LI S，YUAN W ,et al. Error identification method of five-axis machine tool based on sample test method[J].Journal of Zhengzhou University (Engineering Science),2021, 42(1):94-98.
29. 王军雷,张程雲,陈卫哲,等.不同切角方柱斜切体驰振压电能量收集研究[J].郑州大学学报(工学版),2021,42(1):99-104.
WANG J L，ZHANG C Y，CHEN W Z, et al.Study on piezoelectric energy harvesting of square column oblique body at different angles[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):99-104.
30. 李小民,曹侃,李鹏凯,等.一种MILD燃烧器的NO\_x排放性能的关键影响因素分析[J].郑州大学学报(工学版),2021,42(2):105-110.
LI X M，CAO K，LI P K ,et al.Effects of several chief parameters on the NOx emission of a MILD burner firing biogas[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):105-110.
31. 王迪,王定标,杨雨燊,等.跨临界CO2热泵系统最优排气压力模拟与实验研究[J].郑州大学学报(工学版),2021,42(4):33-39.
WANG D，WANG D B，YANG Y S, et al.Simulation and experimental analyses on the optimal discharge pressure of a transcritical CO2heat pump system[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):33-39.
32. 王珂,张宏波,安博,等.磁流体的非均匀分布对磁感应热疗温度场的影响[J].郑州大学学报(工学版),2021,42(4):40-46.
WANG K，ZHANG H B，AN B ,et al.Effect of non-uniform distribution of the magnetic induction of the magnetic fluid hyperthermia temperature field[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):40-46.
33. 李晨阳,刘鹏,陈宏,等.基于驾驶室舱内声学特性的动力吸振器设计研究[J].郑州大学学报(工学版),2021,42(4):47-52.
LI CY，LIU P，CHEN H ,et al.Design and research of dynamic vibration absorber based on acoustic characteristics of interior sound field in a cab[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):47-52.
34. 白国长,赵华强.冷却流道结构对电机泵温升的影响研究[J].郑州大学学报(工学版),2021,42(4):53-57.
BAI G C，ZHAO H Q.Study on influence of cooling channel structure on temperature rise of motor pump[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):53-57.
35. 徐广涛,孙博,陈海宽,等.表面变质层硬度的压痕表征方法[J].郑州大学学报(工学版),2021,42(4):58-62.
XU G T，SUN B，CHEN H K, et al.Indentation characterization method for hardness of surface-modified layer[J].Journal of Zhengzhou University (Engineering Science),2021, 42(4):58-62.
36. 靳遵龙,杨友晨,宫本希,等.瓦楞式固体氧化物燃料电池的数值研究[J].郑州大学学报(工学版),2021,42(6):42-48.
JIN Z L，YANG Y C，GONG B X, et al.Numerical study of mono-block-layer-built-type solid oxide fuel cell[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):42-48.
37. 李阳,李净凯,邹云,等.超声纳米表面改性对316L不锈钢耐磨性能的影响[J].郑州大学学报(工学版),2021,42(6):49-54.
LI Y，LI J K，ZOU Y ,et al.Effect of ultrasonic nanocrystal surface modification on wear property of 316L stainless steel[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):49-54.
38. 贺占蜀,余金龙,陈江义,等.基于离散元法的立轴冲击式破碎机的破碎仿真[J].郑州大学学报(工学版),2021,42(6):55-60.
HE Z S，YU J L，CHEN J Y, et al.Simulation of vertical shaft impact crusher crushing process based on discrete element method[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):55-60.
39. 马新灵,连麒飞,雷萌,等.混合工质的选择对ORC系统性能的影响[J].郑州大学学报(工学版),2021,42(6):61-67.
MA X L，LIAN Q F，LEI M ,et al.Impacts of selection of zeotropic mixture on performance of OＲC system[J].Journal of Zhengzhou University (Engineering Science),2021,42(6): 61-67.
40. 沈超,张艺哲,杨建中,等.电动汽车驱动电机冷却流道性能的数值模拟研究[J].郑州大学学报(工学版),2021,42(6):68-73.
SHEN C，ZHANG Y Z，YANG J Z, et al.Numerical simulation on cooling channel performance of driving motor of electric vehicle[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):68-73.
41. 白国长,吴贺松,郑鹏.基于立方型转矩分配函数SRM直接转矩控制[J].郑州大学学报(工学版),2022,43(1):48-54.
BAI G C，WU H S，ZHENG P. Direct torque control of switched reluctance motor based on cubic torque sharing function[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):48-54.
42. 郑艳萍,张瑞根,梁帅,等.对称Y型分岔微通道微滴分裂数值模拟与实验研究[J].郑州大学学报(工学版),2022,43(1):55-61.
ZHENG Y P，ZHANG R G，LIANG S, et al. Numerical simulation and experimental investigation of droplet splitting in symmetric Y-type bifurcation microchannels[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):55-61.
43. 韩坤峰,刘艳红,毛晓波,等.弯曲气动肌肉驱动手腕康复装置的设计与研究[J].郑州大学学报(工学版),2022,43(1):62-68.
HAN K F，LIU Y H，MAO X B, et al. Design and research of wrist rehabilitation device driven by bending pneumatic muscle[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):62-68.
44. 王建明,李钊全,李博志.基于光滑﹣扩展有限元法的裂纹扩展研究[J].郑州大学学报(工学版),2022,43(2):51-57.
WANG J M, LI Z Q, LI B Z. Research on crack propagation based on smooth-extended finite element method[J].Journal of Zhengzhou University (Engineering Science),2022, 43(2): 51-57.
45. 潘公宇,冯雅琪,陈林,等.考虑热变形影响的盘式制动器制动抖动分析[J].郑州大学学报(工学版),2022,43(2):58-64.
PAN G Y, FENG Y Q, CHEN L, et al. Brake judder analysis of disc brake considering thermal deformation[J].Journal of Zhengzhou University (Engineering Science),2022,43(2): 58-64.
46. 梁杰,张志强,高金刚.40Cr／石墨关节轴承摩擦学性能及磨损机理研究[J].郑州大学学报(工学版),2022,43(2):65-70.
LIANG J, ZHANG Z Q, GAO J G. Study on tribological properties and wear mechanism of 40Cr/Graphite spherical plain bearings[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):65-70.
47. 任菲,王得玺,时桂芹,等.含有点蚀故障的人字行星齿轮传动系统动态分析[J].郑州大学学报(工学版),2022,43(2):71-77.
REN F, WANG D X, SHI G Q, et al. Dynamic analysis of heringbone planetary gear transmission system with pitting failure[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):71-77.
48. 陈江义,史文华,秦东晨,等.RV减速器线针轮传动脂润滑弹流分析[J].郑州大学学报(工学版),2022,43(3):98-103.
CHEN J Y, SHI W H, QIN D C, et al. Elastohydrodynamic analysis of grease lubrication for cycloid pin wheel transmission of RV reducer[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):98-103.
49. 张三川,马啸.基于轨迹加权预测的主动避撞安全距离模型及算法[J].郑州大学学报(工学版),2022,43(3):104-110.
ZHANG S C, MA X.A safe distance model and algorithm for active collision avoidance based on weighted prediction of trajectory[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):104-110.
50. 赵华东,杨号南,孙夏爽,等.多制冷片热电模组中制冷片热布局仿真研究[J].郑州大学学报(工学版),2022,43(04):30-34.
ZHAO H D, YANG H N, SUN X S, et al. Simulation of Thermal Layout of Multi-TEC Thermoelectric Cooling Module[J]. Journal of Zhengzhou University (Engineering Science),2022,43(04):30-34.
51. 刘洋,李凌均,王宇,等.基于FIF-CYCBD的滚动轴承故障特征提取方法研究[J].郑州大学学报(工学版),2022,43(04):35-40.
LIU Y, LI L Y, WANG Y, et al. Fault Feature Extraction Method of Rolling Bearings Based on FIF-CYCBD[J]. Journal of Zhengzhou University (Engineering Science), 2022,43(04):35-40.
52. 刘利平,韩顺创,陈硕,等.基于热力学的生物油重整制氢低CO工艺优化[J].郑州大学学报(工学版),2022,43(04):41-46.
LIU L P, HAN S C, CHEN S, et al. Process Optimization of Bio-oil Reforming for Hydrogen Production with Low CO Based on Thermodynamics[J]. Journal of Zhengzhou University (Engineering Science), 2022,43(04):41-46.
53. 董辛旻,张洪溧,徐刚,等.基于联合评价的微滴检测芯片微通道结构优化[J].郑州大学学报(工学版),2022,43(04):47-52.
DONG X M, ZHANG H L, XU G, et al. Optimization of Micro-channel Structure for Microfluidic Droplet Detection Chip Based on Joint Evaluation[J]. Journal of Zhengzhou University (Engineering Science), 2022,43(04):47-52.
54. 杨孝才,贾秋红,屈翔,等.操作参数对质子交换膜燃料电池冷却效果分析[J].郑州大学学报(工学版),2022,43(04):53-59.
YANG X C, JIA Q H, QU X, et al. Analysis of Cooling Effect of Operating Parameters on Proton Exchange Membrane Fuel Cells [J]. Journal of Zhengzhou University (Engineering Science), 2022,43(04):53-59.
55. 房占鹏,冉凯文,田淑侠,等.约束阻尼板的黏弹性阻尼层细观拓扑优化设计[J].郑州大学学报(工学版),2022,43(04):60-66.
FANG Z P, RAN K W, TIAN S X, et al. Mesoscopic Topology Optimization of Viscoelastic Damping Layer for Constrained Layer Damping Plate[J]. Journal of Zhengzhou University (Engineering Science),
56. 刘德平,郑凯,李冬梅.氧合器内部流场特性分析与溶血评估[J].郑州大学学报(工学版),2022,43(05):39-45.
LIU D P, ZHENG K, LI D M. Analysis of Flow Field Characteristics and Hemolysis Evaluation in Oxygenator[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):39-45.
57. 马新灵,张景迪,孟祥睿,等.ORC向心透平的CFD计算与性能分析[J].郑州大学学报(工学版),2022,43(05):46-51.
MA X L, ZHANG J D, MENG X R, et al. CFD Calculation and Performance Analysis of ORC Radial Inflow Turbine[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):46-51.
58. 张银霞,刘修武,原少帅,等.硬态车削工艺对18CrNiMo7-6钢表层硬度及微观组织的影响[J].郑州大学学报(工学版),2022,43(05):59-64.
ZHANG Y X, LIU X W, YUAN S S, et al. Impact of Hard Turning Process on Surface Hardness and Microstructure of 18CrNiMo7-6 Steel[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):59-64.
59. 苏智剑,陈晨.小型多级空气压缩机单向阀特性分析及优化设计[J].郑州大学学报(工学版),2022,43(05):65-70+7.
SU Z J, CHEN C. Characteristic Analysis and Optimization Design of Check Valve for Small Multistage Air Compressor[J].Journal of Zhengzhou University (Engineering Science), 2022,43(05):65-70+7.
60. 李鹏,王博士,郭健,等.基于有限元仿真的三芯光纤复合海缆扭转研究[J].郑州大学学报(工学版),2022,43(04):67-73.

LI P, WANG B S, GUO J, et al. Torsional Research of Three-core Fiber Composite Submarine Cable Based on Finite Element Simulation[J].Journal of Zhengzhou University (Engineering Science), 2022,43(04):67-73.

1. 刘华东,徐浩轩,李合伟,等.氮硫掺杂碳量子点荧光探针检测Fe~(3+)和Hg~(2+)[J].郑州大学学报(工学版),2022,43(06):64-9.

LIU H D, XU H X, LI H W, et al. Detection of Fe~(3+) and Hg~(2+) by N and S Doped CDs Fluorescence Probe[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):64-9.

1. 杜志叶,赵鹏飞,伍川,等.基于光纤传感器的输电杆塔角钢应变在线监测研究[J].郑州大学学报(工学版),2022,43(06):49-56.

DU Z Y, ZHAO P F, WU C, et al. Research on Online Monitoring of Angle Steel Strain of Transmission Tower Based on FBG Sensor[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):49-56.

赵桂峰,魏丹洋,张猛.光圆与非光圆绞突覆冰输电导线气动力特性分析[J].郑州大学学报(工学版),2022,43(06):57-63+82.DU G F, WEI D Y, ZHANG M,. Aerodynamic Characteristics Analysis of Smooth Circular and Non Smooth Circular Ice-coated Conductors[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):57-63+82.

任志英,邱涛,刘扭扭,等. 推进轴系纵向高承载准零刚度隔振器的研究. 郑州大学学报（工学版）, 2023,44(1):52-57,64.

Ren Zhiying, Qiu Tao, Liu twisted, etc Research on Longitudinal High Load Bearing Quasi Zero Stiffness Vibration Isolators for Propulsion Shafting[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 52-57,64.

王和慧,刘雨欣,汤毅,等. 悬吊式空调机组支吊架的谱分析及抗震评定. 郑州大学学报（工学版）, 2023,44(1):58-64.

Wang Hehui, Liu Yuxin, Tang Yi, et al Spectral analysis and seismic evaluation of suspension air conditioning unit supports and hangers[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 58-64.

马新灵,王聪,石文琪,等. ORC系统蒸发器夹点温差的数值分析和实验研究. 郑州大学学报（工学版）, 2023,44(1):65-69,82.

Ma Xinling, Wang Cong, Shi Wenqi, et al Numerical analysis and experimental study on the temperature difference between the evaporator pinch points in the ORC system[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 65-69,82.

吴少洋,张建伟,卢凤强,等. 18CrNiMo7-6合金钢J-C损伤模型失效参数研究. 郑州大学学报（工学版）, 2023,44(1):70-76.

Wu Shaoyang, Zhang Jianwei, Lu Fengqiang, et al Study on Failure Parameters of J-C Damage Model for 18CrNiMo7-6 Alloy Steel[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 70-76.

张卫东,赵凤霞,苏清磊,等. 激光扫平仪垂直扫平误差测量方法研究. 郑州大学学报（工学版）,2023, 44(1):77-82.

Zhang Weidong, Zhao Fengxia, Su Qinglei, et al Research on the measurement method of vertical leveling error of laser leveling instrument[J]. Journal of Zhengzhou University (Engineering Science), 2023, 44 (1): 77-82.

王定标,王帅,张浩然,等. 流体拓扑优化的方法及应用综述. 郑州大学学报（工学版）,2023,44(2):1-13.

Wang Dingbiao, Wang Shuai, Zhang Haoran, et al Overview of methods and applications for fluid topology optimization[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 1-13.

曹海亮,安琪,左潜龙,等. 一种新的固液共轭沸腾传热LB模型. 郑州大学学报（工学版）,2023,44(2):75-81.

Cao Hailiang, An Qi, Left Qianlong, etc A new LB model for solid-liquid conjugate boiling heat transfer[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 75-81.

朱永胜,杨振涛,丁同奎,等. 考虑用户动态充电需求的电动汽车充电站规划. 郑州大学学报（工学版）,2023,44(2):82-90.

Zhu Yongsheng, Yang Zhentao, Ding Tongkui, et al Planning of electric vehicle charging stations considering user dynamic charging needs[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 82-90.

郭茶秀,魏金宇. 电池排布方式对21700锂电池相变热管理系统的影响. 郑州大学学报（工学版）,2023,44(2):91-97.

Guo Chaxiu, Wei Jinyu The Effect of Battery Layout on the Phase Change Thermal Management System of 21700 Lithium Battery[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 91-97.

孟祥睿,赵一洁,马新灵,等. 基于电热效应的带状制冷结构的模拟研究. 郑州大学学报（工学版）,2023,44(2):98-103.

Meng Xiangrui, Zhao Yijie, Ma Xinling, et al Simulation study of strip cooling structure based on electrothermal effect[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 98-103.

陈江义,殷笑勇,王婷婷,等. 基于改进斥力模型的人工势场局部路径规划. 郑州大学学报（工学版）,2023,44(3):83-87,101.

Chen Jiangyi, Yin Xiaoyong, Wang Tingting, et al Local path planning of artificial potential field based on improved repulsive force model[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 83-87101.

李铭,苟浩瑞,于永洁,等. 金属管道腐蚀在线监测信号漂移的修正方法. 郑州大学学报（工学版）,2023,44(3):88-93.

Li Ming, Gou Haorui, Yu Yongjie, et al Correction method for signal drift in online monitoring of metal pipeline corrosion[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 88-93.

胡启国,魏晨,陆伟,等. 空气悬架混杂系统车身高度与可调阻尼分层控制. 郑州大学学报（工学版）,2023,44(3):94-101.

Hu Qiguo, Wei Chen, Lu Wei, et al Air suspension hybrid system body height and adjustable damping layered control[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 94-101.

吴金星,徐耀,李松歌,等. 螺旋管内局部二次流强度计算及演变规律. 郑州大学学报（工学版）,2023,44(4):29-34.

Wu Jinxing, Xu Yao, Li Songge, et al Calculation and Evolution of Local Secondary Flow Intensity in a Spiral Tube[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 29-34.

靳遵龙,杨磊,霍东方,等. 瓦楞式固体氧化物燃料电池的结构优化. 郑州大学学报（工学版）,2023,44(4):35-40,53.

Jin Zunlong, Yang Lei, Huo Dongfang, et al Structural optimization of corrugated solid oxide fuel cells[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 35-40,53.

王星龙,陶宗杰,杨泊莘,等. 插针机构中圆柱凸轮滚子疲劳寿命预测方法. 郑州大学学报（工学版）,2023,44(4):41-47.

Wang Xinglong, Tao Zongjie, Yang Boxin, et al Method for predicting the fatigue life of cylindrical cam rollers in pin insertion mechanisms[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 41-47.

汤松臻,韩奎,周俊杰. 垃圾焚烧炉低温腐蚀机理的分子动力学模拟. 郑州大学学报（工学版）,2023,44(4):48-53.

Tang Songzhen, Han Kui, Zhou Junjie Molecular dynamics simulation of low-temperature corrosion mechanism in garbage incinerators[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 48-53.

刘华东，靳朝阳，王定标，郝琪，党毫，张羽翔. 旁路结构对亚临界喷射器引射效率的影响. 郑州大学学报(工学版), 2023,44(12):48-53.

Liu Huadong, Jin Chaoyang, Wang Dingbiao, Hao Qi, Dang Hao, Zhang Yuxiang The effect of bypass structure on the injection efficiency of subcritical injectors[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (12): 48-53.

陈宏，陈新财，巩晓费，韩东洋，刘华杰. 基于知识图谱的风电机组诊断系统构建与应用. 郑州大学学报(工学版), 2023,44(13):54-60.

Chen Hong, Chen Xincai, Gong Xiaofei, Han Dongyang, Liu Huajie Construction and application of wind turbine diagnosis system based on knowledge graph[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (13): 54-60.

张志刚，马新旋，王才东，郑华栋，王良文. 基于三次样条插值的几何精确曲梁单元. 郑州大学学报(工学版), 2023,44(14):61-67.

Zhang Zhigang, Ma Xinxuan, Wang Caidong, Zheng Huadong, Wang Liangwen Geometrically Accurate Curved Beam Element Based on Cubic Spline Interpolation[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (14): 61-67.

## 土木与交通

1. 马庚华,杜牧青,张小丽. 不确定因素下的综合运输网络容量可靠性分析[J]. 郑州大学学报（工学版）,2018,39(1):1-6.

Ma Genghua, Du Muqing, Zhang Xiaoli. Capacity reliability analysis of the integrated transportation network under uncertain factors [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 1-6.

1. 冯振刚,孙安石,张东阳,等. 废橡胶裂解炭黑改性沥青混合料的黏弹特性研究[J]. 郑州大学学报（工学版）,2018,39(1):7-11.

Feng Zhengang, Sun Anshi, Zhang Dongyang, et al. Study on the viscoelastic characteristics of waste rubber cracking carbon black modified asphalt mixture [J]. Journal of Zhengzhou University (Engineering Edition), 2018,39 (1): 7-11.

1. 王娟,王会娟,许耀群,等. 单轴荷载作用下混凝土强度代表体尺寸定量研究[J]. 郑州大学学报（工学版）,2018,39(1):12-17,28.

Wang Juan, Wang Huijuan, Xu Yaoqun, et al. Quantitative study on body size of concrete strength under uniaxial load [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 12-17,28.

1. 郑亮,张大鹏,郭宏,等. 高应力下圆钢管混凝土柱界面粘结性能研究[J]. 郑州大学学报（工学版）,2018,39(1):18-23.

Zheng Liang, Zhang Dapeng, Guo Hong, et al. Study on the interfacial bonding performance of circular concrete filled steel tube column under high stress [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 18-23.

1. 黄锦耀,严诗伦,陈朝阳. EGR对二甲醚HCCI发动机燃烧特性的影响[J]. 郑州大学学报（工学版）,2018,39(1):24-28.

Huang Jinyao, Yan Shilun, Chen Chaoyang. Effect of EGR on the combustion characteristics of dimethyl ether HCCI engines [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 24-28.

1. 常玉林,郑献予,张鹏. 基于相交道路左转饱和交通量的MULTIBAND改进模型[J]. 郑州大学学报（工学版）,2018,39(1):29-35.

Chang Yulin, Zheng Xianyu, and Zhang Peng. A MULTIBAND improvement model based on saturated traffic volume on left turn of intersecting roads [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 29-35.

1. 杜朝伟,郑元勋,蔡迎春,等. 碳化腐蚀预应力空心板疲劳特性试验研究[J]. 郑州大学学报（工学版）,2018,39(1):36-41.

Du Chaowei, Zheng Yuanxun, Cai Yingchun, et al. Study on fatigue characteristics of carbonized corrosion prestressed hollow plate [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 36-41.

1. 杨利民,郭进军,韩易辰,等. 下伏采空区对路基稳定性的影响研究[J]. 郑州大学学报（工学版）,2018,39(1):42-46.

Yang Limin, Guo Jinjun, Han Yichen, et al. Study on the influence of lower goaf on subgrade stability [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 42-46.

1. 崔允亮,项鹏飞,王新泉,等. 考虑塑性体积应变的扰动状态本构模型改进[J]. 郑州大学学报（工学版）,2018,39(1):47-52.

Cui Yunliang, Xiang Pengfei, Wang Xinquan, et al. Improvement of the disturbance state constitutive model considering plastic volume strain [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 47-52.

1. 张香成,陈娜,罗芳,等. 铅-磁流变阻尼器在减震结构中的位置优化[J]. 郑州大学学报（工学版）,2018,39(2):44-49.

Zhang Xiangcheng, Chen Na, Luo Fang, et al. Position optimization of lead-magnetic rheological dampers in shock damping structure [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 44-49.

1. 梁书锋,武宇,刘殿书,等. SHPB恒应变率加载试验技术研究[J]. 郑州大学学报（工学版）,2018,39(2):50-55.

Liang Shufeng, Wu Yu, Liu Dianshu, et al. Study of SHPB [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 50-55.

1. 马强,邢文文,李丽华,等. 棕麻纤维加筋砂的三轴试验研究[J]. 郑州大学学报（工学版）,2018,39(2):56-60.

Ma Qiang, Xing Wenwen, Li Lihua, et al. Study on the triaxial test of brown hemp fiber reinforced sand [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 56-60.

1. 何俊,颜兴,胡晓瑾,等. 胶粉改性土-膨润土固结压缩特性试验[J]. 郑州大学学报（工学版）,2018,39(2):61-66,85.

He Jun, Yan Xing, Hu Xiaojin, et al. Compression characteristic test of rubber powder modified soil-bentonite consolidation [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 61-66,85.

1. 何锐,黄鑫,耿九光,等. 废胎胶粉与HDPE/SBS三掺复合改性沥青性能研究[J]. 郑州大学学报（工学版）,2018,39(2):67-72.

He Rui, Huang Xin, Geng Jiuguang, et al. Study on the properties of modified asphalt with waste rubber powder and HDPE / SBS [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 67-72.

1. 白桦,郭聪敏,刘健新. 紊流强度与积分尺度对结构平均风压与脉动风压雷诺数效应影响研究[J]. 郑州大学学报（工学版）,2018,39(2):73-79.

Bai Hua, Guo Congmin, Liu Jianxin. Study on the influence of turbulent intensity and integral scale on the Reynolds number effect of structural mean wind pressure and pulsating wind pressure [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 73-79.

1. 潘荣凯,杨平,陈亮,等. 砂层注浆模型试验水泥含量检测方法研究[J]. 郑州大学学报（工学版）,2018,39(4):1-6.

Pan Rongkai, Yang Ping, Chen Liang, et al. Study on the detection method of cement content in sand layer grouting model test [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 1-6.

1. 张猛,张玉莹,赵桂峰,等. 考虑温度场的架空钢芯铝绞线线股应力研究[J]. 郑州大学学报（工学版）,2018,39(4):7-11,35.

Zhang Meng, Zhang Yuying, Zhao Guifeng, et al. Study on femoral stress of overhead steel core aluminum strand considering temperature field [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 7-11,35.

1. 栗培龙,马松松,李建阁,等. 炭黑改性沥青混合料的动态响应主曲线分析[J]. 郑州大学学报（工学版）,2018,39(4):12-17.

Li Peilong, Ma Songsong, Li Jiange, et al. Dynamic response main curve analysis of carbon black modified asphalt mixture [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 12-17.

1. 袁守利,林家辉. FSAE方程式赛车车架的设计与轻量化[J]. 郑州大学学报（工学版）,2018,39(4):18-24.

Yuan Shouli, Lin Jiahui. Design and Lightweight of FSAE Formula car racing frames [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 18-24.

1. 罗亚萍,邱兆文. 氧化石墨烯、水和乙二醇混合基纳米流体对氢发动机散热影响研究[J]. 郑州大学学报（工学版）,2018,39(4):25-29.

Luo Yaping, Qiu Zhaowen. Study on the influence of GO, water and ethylene glycol nanoffluidid on heat dissipation of hydrogen engines [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 25-29.

1. 童丽萍,李聪. 不同掺合料对土坯墙泥浆抗压强度影响研究[J]. 郑州大学学报（工学版）,2018,39(5):85-90.

Tong Liping, Li Cong. Study on the influence of different admixture on the compressive strength of adobe wall mud [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 85-90.

1. 李炜光,国洋,汤豆,等. 机场道面沥青加铺结构分区域差异设计研究[J]. 郑州大学学报（工学版）,2018,39(5):91-96.

Li Weiguang, Guoyang, Tang Dou, et al. Study on regional difference design of asphalt paving structure on airport road surface [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (5): 91-96.

1. 王博,张春丽,祝彦知.正交各向异性路基路面在移动荷载作用下的空间动力响应[J].郑州大学学报(工学版),2019,40(1):50-54+61.
WANG B,ZHANG C L,ZHU Y Z. 3D dynamic response of infinite plate on orthotropic foundation under moving loads[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):50-54.
2. 黄孝帝,顾颖,何军.结构极值响应估计方法的有效性研究[J].郑州大学学报(工学版),2019,40(1):55-61.
HUANG X D, GU Y, HE J. Efficiency analysis of structural extreme response estimation methods[J]. Journal of Zhengzhou University (Engineering Science), 2019,40(1):55-61.
3. 李斌,方宏远,王复明.脱空排水管道高聚物修复前后力学特性分析[J].郑州大学学报(工学版),2019,40(1):62-66.
LI B, FANG H Y,WANG F M. Analysis of the mechanical characteristics of disengaging drainage pipe before and after polymer repairing[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):62-66.
4. 邬晓光,贺书磊,郑鹏,等.公路桥梁板式橡胶支座失效标准研究[J].郑州大学学报(工学版),2019,40(1):67-71.
WU X G,HE S L,ZHENG P, et al. Study on failure standard of highway bridge rubber bearing[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):67-71.
5. 邬晓光,贺攀,何启龙,等.陕西省连续箱梁桥底板实测竖向温度梯度研究[J].郑州大学学报(工学版),2019,40(3):68-72.
WU Xiaoguang, HE Pan, HE Qilong, et al. Study on bottom plate measured vertical temperature gradient of continuous box beam bridge in shanxi province[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):68-72.
6. 张惠玲,杨林玉,敖谷昌.信号交叉口第一辆车到达分布及影响因素分析[J].郑州大学学报(工学版), 2019,40(3):73-78.
ZHANG H L,YANG L Y,AO G C. Analysis on the arrival distribution and influencing factors of the first car arrival at the signalized intersection[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):73-78.
7. 赵利军,申岩,邓欣,等.基于EDEM的沥青混合料搅拌机叶片参数匹配[J].郑州大学学报(工学版),2019,40(3):79-84.
ZHAO L J,SHEN Y,DENG X, et al. Parameters matching of mixing blades for asphalt mixture mixer based on EDEM[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):79-84.
8. 蒋洋,郭建坤,王晓谋,等.基于双侧非对称破坏模式的临坡地基极限承载力分析[J].郑州大学学报(工学版),2019,40(3):85-91.
JIANG Y,GUO J K,WANG X M,et al. Analysis on ultimate bearing capacity of ground foundation adjacent to slope based on bilateral asymmetry failure mode[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):85-91.
9. 李艺林,黄叙钦,邬晓光.连续刚构桥单肢空心薄壁墩实心段计算长度分析[J].郑州大学学报(工学版),2019,40(3):92-96.
LI Y L,HUANG X Q,WU X G. Solid sections' calculation length analysis of continuous rigid frame bridge hollow single thin-walled pier[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):92-96.
10. 时刚,康一,刘忠玉.基于Hansbo渗流的未打穿砂井地基固结分析[J].郑州大学学报(工学版),2019,40(6):84-89.
SHI G，KANG Y，LIU Z Y. Consolidation analysis of partially penetrated sand-drained foundation based on hansbo's flow[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):85-89.
11. 胡愈,姚爱军,张剑涛.地铁施工引发雨污管线灾变的试验研究与数值仿真[J].郑州大学学报(工学版),2019,40(6):90-96.
HU Yu，YAO A J，ZHANG J T .Study of test and numerical simulation of rain and sewage pipeline based on metro construction[J].Journal of Zhengzhou University (Engineering Science), 2019,40(06):90-96.
12. 张猛,梁任,赵桂峰.架空导线径向温差及允许载流量研究[J].郑州大学学报(工学版),2020,41(1):1-7.
ZHANG M,LIANG R,ZHAO G F. Study on radial temperature distribution and maximum ampacity of overhead conductors [J].Journal of Zhengzhou University (Engineering Science),2020,41(1):1-7.
13. 李会知,翟参,肖方恰,等.生猪转运车烘干房风系统优化研究[J].郑州大学学报(工学版),2020,41(1):8-12.
LI H Z,ZHAI C,XIAO F Q,et al. Optimization of air system in drying room of pig transport truck[J].Journal of Zhengzhou University (Engineering Science),2020,41(01):8-12.
14. 翟淑芳,曹世豪,冯永,等.断续节理岩体的TBM滚刀破岩机理研究[J].郑州大学学报(工学版),2020,41(1):20-24.
ZHAI S H,CAO S H,FENG Y,et al. The Influence of intermittent joint on rock fragmentation by TBM cutter [J].Journal of Zhengzhou University (Engineering Science),2020,41(1): 20-24.
15. 吉伯海,蒋斐,王益逊,等.钢桥面板顶板-U肋焊缝多轴疲劳效应评估[J].郑州大学学报(工学版),2020,41(1):25-31.
JI B H,JIANG F,WANG Y X,et al. Multiaxial fatigue evaluation of U-rib to deck welded joint in steel bridge deck[J].Journal of Zhengzhou University (Engineering Science),2020,41(1): 25-31.
16. 宋林涧,赵军.钢筋混凝土剪力墙在竖向荷载作用下的稳定性分析[J].郑州大学学报(工学版),2020,41(2):80-85.
SONG L J,ZHAO J.The stability analysis of reinforced concrete shear wall under vertical compression[J].Journal of Zhengzhou University (Engineering Science),2020,41(02):80-85.
17. 张哲,史锦,李国强,等.带翼缘板嵌入式连接件抗剪承载力试验研究[J].郑州大学学报(工学版),2020,41(2):86-90.
ZHANG Z,SHI J,LI G Q,et al. Experimental study on shear bearing capacity of embedded connector with flange plate[J].Journal of Zhengzhou University (Engineering Science),2020, 41(02):86-90.
18. 温森,贾书耀,高星璞.侧压系数及回填材料对双护盾TBM卡机控制的影响分析[J].郑州大学学报(工学版),2020,41(2):91-96.
WEN S,JIA S Y,GAO X P. Impact of lateral pressure coefficient and backfilling material on double shield TBM jamming control[J].Journal of Zhengzhou University (Engineering Science),2020,41(2):91-96.
19. 张雅琴,杨平,江汪洋,等.含水率及应变速率对冻结粉质黏土强度特性影响[J].郑州大学学报(工学版),2020,41(3):79-84.
ZHANG Y Q,YANG P,JIANG W Y,et al. Effect of water content and strain rate on the strength characteristics of frozen silty clay [J].Journal of Zhengzhou University (Engineering Science),2020,41(3): 79-84.
20. 王朝华,赵桂峰,刘冉,等.高压变电站构架避雷针结构承载力分析与加固研究[J].郑州大学学报(工学版),2020,41(3):85-90.
WANG C H,ZHAO G F,LIU R,et al. Bearing capacity and reinforcement analysis of a high voltage substation framework with lightning rods [J].Journal of Zhengzhou University (Engineering Science),2020,41(03):85-90.
21. 张雪妍,贺锋.基于累积前景理论的组合出行交通分配模型[J].郑州大学学报(工学版),2020,41(3):91-96.
ZHANG X Y,HE F. Traffic Assignment model with combined modes based on cumulative prospect theory[J].Journal of Zhengzhou University (Engineering Science),2020, 41(3): 91-96.
22. 王复明,何航,方宏远,等.交通和运行荷载耦合作用下管道承插口力学响应研究[J].郑州大学学报(工学版),2020,41(4):1-6.
WANG FM,HE H,FANG H Y,et al. Study on mechanical response of the bell-and-spigot joints of pipeline under the coupling of traffic and running load[J].Journal of Zhengzhou University (Engineering Science),2020,41(4):1-6.
23. 严亚丹,李杨,仝佩.基于修正通行能力的道路出入口位置优化方法[J].郑州大学学报(工学版),2020,41(4):7-11.
YAN Y D,LI Y,TONG P. Optimization method of road access location based on modified capacity[J].Journal of Zhengzhou University (Engineering Science),2020,41(04):7-11.
24. 乐金朝,张世兴,乐明静,等.不同损伤度和愈合温度条件下沥青胶浆自愈合行为研究[J].郑州大学学报(工学版),2020,41(4):12-16.
YUE J C,ZHANG S X,YUE M J,et al. Study on self-healing behavior of asphalt mastic under different damage degree and healing temperature[J].Journal of Zhengzhou University (Engineering Science),2020,41(4):12-16.
25. 邵昀泓,庞亚凤,郑元勋,等.再生混凝土破坏机理及力学增强策略研究综述[J].郑州大学学报(工学版),2020,41(4):17-22.
SHAO Y H,PANG Y F,ZHENG Y X,et al. The overview on failure mechanism and strengthening measure of mechanical properties for recycled concrete[J].Journal of Zhengzhou University (Engineering Science),2020,41(4):17-22.
26. 钟委,刘欣,高子鹤.纵向通风对隧道火灾特性及竖井自然排烟效果的影响[J].郑州大学学报(工学版),2020,41(6):46-52.
ZHONG W,LIU X,GAO Z H. Experimental investigation on the influence of longitudinal ventilation on tunnel fire characteristics and natural smoke exhaust by shaft[J].Journal of Zhengzhou University (Engineering Science),2020,41(06):46-52.
27. 时刚,田新涛.工程卡车行驶引发地面振动特性研究[J].郑州大学学报(工学版),2020, 41(5):76-81.
SHI G,TIAN X T. Research on ground vibration characteristics caused by engineering truck driving[J].Journal of Zhengzhou University (Engineering Science),2020,41(5):76-81.
28. 朱媛媛,王笑梅.热局部非平衡流体多孔弹性半平面问题的非线性研究[J].郑州大学学报(工学版),2020,41(6):60-65.
ZHU Y Y,WANG X M. Nonlinear study on fluid porous elastic half-plane based on local thermal non-equilibrium[J].Journal of Zhengzhou University (Engineering Science),2020, 41(6): 60-65.
29. 闫富有,崔昊,李俊超,等.考虑胶结退化的水泥土边界面模型及参数研究[J].郑州大学学报(工学版),2021,42(1):63-69.
YAN F Y，CUI H，LI J C ,et al. Bounding surface model and parameters study on describing the behavior of cement-treated clay with cementation degradation[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):63-69.
30. 李戎,杨萌,刘林霞,等.水下FG圆柱壳临界载荷和固有频率预测方法[J].郑州大学学报(工学版),2021,42(1):70-76.
LI R，YANG M，LIU L X, et al. Prediction method for critical buckling pressure and natural frequency of submerged functionally graded cylindrical shell[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):70-76.
31. 张文刚,王芳,丁龙亭.融雪盐对沥青混合料的腐蚀作用研究[J].郑州大学学报(工学版),2021,42(1):77-81.
ZHANG W G，WANG F，DING L T.Corrosion behavior of melting snow salt on asphalt mixtures[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):77-81.
32. 汪德才,郝培文,孙杨,等.冷再生用乳化沥青稳定性评价指标研究[J].郑州大学学报(工学版),2021,42(1):82-88.
WANG D C，HAO P W，SUN Y, et al.Stability evaluation indexes of emulsified asphalt for cold regeneration[J].Journal of Zhengzhou University (Engineering Science),2021,42(1): 82-88.
33. 刘海林,杜思义,宝鹏辉.地基基础检测P-BIM模型的设计与应用[J].郑州大学学报(工学版),2021,42(1):89-93.
LIU H L，DU S Y，BAO P H. Design and Application of foundation-based detection P-BIM model[J].Journal of Zhengzhou University (Engineering Science),2021,42(1):89-93.
34. 马峰,金彦鑫,傅珍,等.SEBS改性沥青混合料路用性能研究[J].郑州大学学报(工学版),2021,42(2):98-104.
MA F，JIN Y X，FU Z ,et al.Road performance of SEBS modified asphalt mixture[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):98-104.
35. 梁书锋,方士正,韦贵华,等.高温作用后硅质砂岩力学性能试验[J].郑州大学学报(工学版),2021,42(3):87-92.
LIANG S F，FANG S Z，WEI G H,et al. Experiments on mechanical properties of siliceous sandstone after high temperature[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):87-92.
36. 郑德乾,刘帅永,顾明,等.大跨镂空网格屋盖风荷载数值模拟研究[J].郑州大学学报(工学版),2021,42(3):93-98.
ZHENG D Q，LIU S Y，GU M, et al.Numerical investigation of wind load on long span hollow grid roof[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):93-98.
37. 卢前明,王雪晴,付少莙,等.脱硫石膏对污泥灰胶凝体系强度及微观结构的影响[J].郑州大学学报(工学版),2021,42(3):99-104.
LU Q M，WANG X Q?? ?，FU S J ,et al.Effect of desulphurization gypsum on the strength and microstructure of the sludge Ash cementitious system[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):99-104.
38. 张军锋,陈鹤,杨柄楠,等.单箱多室宽幅箱梁桥施工剪力滞效应[J].郑州大学学报(工学版),2021,42(3):105-110.
ZHANG J F，CHEN H，YANG B N, et al.Shear lag effect of wide single box bridge with multi-cell in construction[J].Journal of Zhengzhou University (Engineering Science),2021, 42(3): 105-110.
39. 靳文舟,邓钦原,郝小妮,等.改进人工蜂群算法的农村DRT路径优化研究[J].郑州大学学报(工学版),2021,42(4):84-90.
JIN W Z，DENG Q Y，HAO Xiaoni ,et al. Research on route optimization of rural DRT based on improved ABC algorithm[J].Journal of Zhengzhou University (Engineering Science), 2021,42(4):84-90.
40. 吴晔,许紫刚,杜修力.软弱夹层对地下结构地震响应的影响分析[J].郑州大学学报(工学版),2021,42(4):91-97.
WU Y，XU Z G，DU X L.Analysis of effects of weak interlayer on seismic responses of underground structures[J].Journal of Zhengzhou University (Engineering Science),2021, 42(4): 91-97.
41. 沈阳,徐磊,郑冠雨,等.考虑风险因素耦合的超高层施工预警方法研究[J].郑州大学学报(工学版),2021,42(4):98-104+110.
SHEN Y，XU L，ZHENG G Y ,et al.Research on early-warning method for super high-rise building construction considering coupling effect of risk factors[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):98-104+110.
42. 刘瑞丽,高琼旻,马静,等.定形相变板材制备及相变墙体热工性能研究[J].郑州大学学报(工学版),2021,42(4):105-110.
LIU R L，GAO Q M，MA J ,et al.Study on preparation of shaped phase change sheet and thermal performance of phase change wall[J].Journal of Zhengzhou University (Engineering Science),2021,42(4):105-110.
43. 黄嘉钰,刘元珍,高宇璇,等.再生粗骨料取代率对再生保温混凝土徐变的影响[J].郑州大学学报(工学版),2021,42(5):68-73.
HUANG J Y，LIU Y Z，GAO Y X, et al. Study on influence of recycled coarse aggregate replacement rate on creep of recycled thermal insulation concrete[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):68-73.
44. 时晓晔,梁岩,万德坤,等.桥梁顶推施工导梁屈曲分析及加固措施研究[J].郑州大学学报(工学版),2021,42(5):74-78.
SHI X Y,LIANG Y，WAN D K ,et al. Buckling analysis of guide beams in bridge jacking construction and study on reinforcement measures[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):74-78.
45. 苗艳春,张玉,雷闯,等.热力耦合途径下再生保温混凝土的细观力学性能[J].郑州大学学报(工学版),2021,42(5):79-85.
MIAO Y C，ZHANG Y，LEI C ,et al.Meso-scale response of recycled aggregate thermal insulation concrete based on coupled thermo-mechanical modeling[J].Journal of Zhengzhou University (Engineering Science),2021,42(5):79-85.
46. 张浩,乔文靖,杨帆,等.强腐蚀桥梁钢Q345的J-C本构模型及数值模拟[J].郑州大学学报(工学版),2021,42(6):99-104.
ZHANG H，QIAO W J，YANG F, et al.Tensile finite element simulation of Q345 bridge steel with strong corrosion based on J-C model[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):99-104.
47. 张天航,张建勋,万二帅.大节段装配式波形钢腹板组合T梁横向分布系数研究[J].郑州大学学报(工学版),2021,42(6):105-110.
ZHANG T H，ZHANG J X，WAN E S.Research of the lateral distribution factors of large-segment prefabricated T-girder with corrugated steel webs[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):105-110.
48. 宋丹青,董利虎,陈卓,等.基于模态分析的大型均质岩质边坡动力响应特征研究[J].郑州大学学报(工学版),2021,42(2):1-6.
SONG D Q，DONG L H，CHEN Z, et al. Dynamic response characteristics of large homogeneous rock slopes based on modal analysis[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):1-6.
49. 赵必大,蔡扬政,姚泽阳.KK形圆钢管相贯节点平面外受弯抗震性能研究[J].郑州大学学报(工学版),2021,42(2):7-12.
ZHAO B D，CAI Y Z，YAO Z Y.Study on seismic behavior of unstiffened circular hollow section KK-joints under out-of-plane bending[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):7-12.
50. 赵卓,耿佳硕,王建强.采用UHPC材料连接的装配式桥墩抗震性能研究[J].郑州大学学报(工学版),2021,42(2):13-18.
HAO Z，GENG J S，WANG J Q.Study on seismic performance of prefabricated pier connected by UHPC[J].Journal of Zhengzhou University (Engineering Science),2021,42(2): 13-18.
51. 王景玄,杨永,沈亚军.钢管混凝土组合框架-填充墙结构抗连续倒塌分析[J].郑州大学学报(工学版),2021,42(2):19-24.
WANG J X，YANG Y，SHEN Y J.Progressive collapse analysis of composite planar frame with CFST columns and full-height infill walls[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):19-24.
52. 李悦,孟文君,高崇铭,等.装配式结构钢筋连接界面的破坏演化规律研究[J].郑州大学学报(工学版),2021,42(2):25-30.
LI Y，MENG W J，GAO C M ,et al.Study on failure evolution law of reinforcing bar connection interface of precast structure[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):25-30.
53. 陈伟宏,刘方豪,乔泽惠,等.钢筋混凝土框架抗倒塌性能影响因素分析[J].郑州大学学报(工学版),2021,42(2):31-36+104.
CHEN W H，LIU F H，QIAO Z H et al.Analysis on factors affecting the capability of collapse of reinforced concrete[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):31-36+104.
54. 李通,时强,王新武,等.耗能梁段腹板开孔对偏心支撑钢框架抗震性能影响[J].郑州大学学报(工学版),2021,42(2):37-42.
LI T，SHI Q，WANG X W,et al. Influence of web openings of link on seismic behavior of eccentrically braced steel frames[J].Journal of Zhengzhou University (Engineering Science), 2021,42(2):37-42.
55. 李清富,匡一航,郭威.CDP模型参数计算及取值方法验证[J].郑州大学学报(工学版),2021,42(2):43-48.
LI Q F，KUANG Y H，GUO W.CDP model parameters calculation and value method verification[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):43-48.
56. 元成方,魏逸然,李爽.聚丙烯纤维混合再生骨料混凝土力学性能研究[J].郑州大学学报(工学版),2021,42(2):49-53.
YUAN CF，WEI Y R，LI S.Study on mechanical properties of polypropylene fiber mixed recycled aggregate concrete,2021,42(2):49-53.
57. 李可,徐朝阳,吴凯鑫,等.600 MPa级钢筋与高强混凝土黏结-滑移关系研究[J].郑州大学学报(工学版),2021,42(2):54-60.
LI K，XU Z Y，WU K X ,et al.Research on bond-slip relationship of 600 MPa grade steel bar and high-strength concrete[J].Journal of Zhengzhou University (Engineering Science),2021, 42(2):54-60.
安全工程以及其他
58. 李玉民,刘阳,王显舜.内地机场航空物流辐射范围及格局演变研究[J].郑州大学学报(工学版),2021,42(1):105-110.
LI Y M，LIU Y，WANG X S.Delimitation and evolution pattern of chinese airports' aviation logistics space radiation scopes[J].Journal of Zhengzhou University (Engineering Science), 2021,42(1):105-110.
59. 靳文舟,姚尹杰.多因素耦合作用下的车辆群事故伤害程度估计[J].郑州大学学报(工学版),2021,42(3):1-7.
JIN W Z，YAO Y J.Estimation of accident injury severity of vehicle groups considering multi-factor coupling[J].Journal of Zhengzhou University (Engineering Science),2021,42(3): 1-7.
60. 葛巍,焦余铁,洪辛茜,等.基于AHP-BN法的溃坝生命损失风险评价[J].郑州大学学报(工学版),2021,42(3):8-12.
GE W，JIAO Y T，HONG X Q ,et al.Risk assessment of life loss caused by dam breach based on AHP-BN method[J].Journal of Zhengzhou University (Engineering Science),2021,42(3): 8-12.
61. 张鹏,钟山,朱锐,等.基于熵权法﹣云模型的石拱桥技术状况评定[J].郑州大学学报(工学版),2022,43(1):69-75.
ZHANG P，ZHONG S，ZHU R, et al. Evaluating technical condition of stone arch bridge based on entropy method-cloud model[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):69-75.
62. 靳军伟,付柏毅,陈允斌,等, 隧道 Park 收敛模式正交下穿既有隧道影响分析[J].郑州大学学报(工学版),2022,43(1):76-82.
JIN J W，FU B Y，CHEN Y B, et al, Analysis of existing tunnels deformation induced by new othogonal tunneling using park convergence model[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):76-82.
63. 金立兵,余化龙,王振清,等.再生混凝土抗氯离子渗透的五相细观数值模拟[J].郑州大学学报(工学版),2022,43(1):83-89.
JIN L B，YU H L，WANG Z Q, et al. Five-phase mesoscopic numerical simulation of chloride permeation resistance in recycled aggregate concrete[J].Journal of Zhengzhou University (Engineering Science),2022,43(1):83-89.
64. 郭成超,朱传鑫.装配式可回收双排桩支护结构的开挖支护分析[J].郑州大学学报(工学版),2022,43(2):78-83.
GUO C C, ZHU C X. Analysis of excavation and support of prefabricated returnable double-row piles support structure[J].Journal of Zhengzhou University (Engineering Science), 2022,43(2):78-83.
65. 单玉麟,黄福云,罗小烨,等.整体桥台后大不平衡土压力计算方法研究[J].郑州大学学报(工学版),2022,43(2):84-90.
SHAN Y L, HUANG F Y, LUO X Y, et al.Study on calculation method of larger unbalanced earth pressure of backfill behind abutment in integral abutment jointless bridges[J].Journal of Zhengzhou University (Engineering Science),2022,43(2):84-90.
66. 陈远,金蕊,查亚闯.基于贝叶斯网络的大型公共项目进度延误风险研究[J].郑州大学学报(工学版),2022,43(2):91-97.
CHEN Y, JIN R, ZHA Y C. Research on delay risk of large complex public projects based on bayesian network[J].Journal of Zhengzhou University (Engineering Science),2022,43(2): 91-97.
67. 梁九凯,奥村运明,袁卫军.C9石油树脂对 SBS 改性沥青性能的增强效果研究[J].郑州大学学报(工学版),2022,43(2):105-110.
LIANG J K, OKUMURA U M, YUAN W J. Strengthening effect of C9 petroleum resin on SBS modified asphalt[J].Journal of Zhengzhou University (Engineering Science),2022,43(2): 105-110.
68. 吴文亮,代生林,斯李.糠醛抽出油再生沥青的流变和感温性能研究[J].郑州大学学报(工学版),2022,43(3):52-58.
WU W L, DAI S L, SI L. Study on rheological and temperature sensitive properties of recycled asphalt from furfural extraction oil[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):52-58.
69. 邓友生,孟丽青,蔡梦真,等.水泥土搅拌桩加固黄土路基稳定性研究[J].郑州大学学报(工学版),2022,43(3):59-66.
DENG Y S, MENG L Q, CAI M Z, et al.Research on stability of loess roadbed reinforced with cement-soil mixing piles[J].Journal of Zhengzhou University (Engineering Science), 2022,43(3):59-66.
70. 林上顺,何乐,夏樟华,等.榫卯﹣灌浆套筒混合连接装配式方墩轴压承载力[J].郑州大学学报(工学版),2022,43(3):67-72.
LIN S S, HE Y, XIA Z H, et al.Tenon-grouting sleeve connection fabricated square pier axial compression bearing capacity[J].Journal of Zhengzhou University (Engineering Science), 2022, 43(3):67-72.
71. 楚留声, 王启源, 王帅起,等.反复荷载下CRC梁柱节点纵筋黏结性能试验研究[J].郑州大学学报(工学版), 2022, 43(04): 74-9.
CHU L S, WANG Q Y, WANG S Q, et al. Experimental Study on the Bonding Performance of Longitudinal Reinforcement in CRC Beam-column Joints under Cyclic Loads[J]. Journal of Zhengzhou University (Engineering Science),2022, 43(04): 74-9.
72. 梁岩,闫士昌,赵博洋,王艳,张朝阳.近断层高速铁路刚构桥地震易损性分析[J].郑州大学学报(工学版),2022,43(04):80-85+91.
LIANG Y, YAN S C, ZHAO B Y, et al. Seismic Fragility Analysis of Rigid Frame Bridge Near-fault High-speed Railway[J]. Journal of Zhengzhou University (Engineering Science), 2022,43(04):80-85+91.
73. 陈正发,陈振飞,刘健鹏,等.碳纳米管改性黏土力学性能及微观机制研究[J].郑州大学学报(工学版),2022,43(04):86-91.
CHEN Z F, CHEN Z F, LIU J P, et al. Experimental Study on Mechanical Properties and Micro-mechanism of Clay Modified by Carbon Nanotubes[J].Journal of Zhengzhou University (Engineering Science),2022,43(04):86-91.
74. 彭赵旭,姜昆,娄天宇,等.基于响应面法优化混凝效果及其机理研究[J].郑州大学学报(工学版),2022,43(04):92-96+103.
PENG Z X, JIANG K, LOU T Y, et al. Study on the Optimization of Coagulation Effect and Mechanism by Response Surface Methodology[J]. Journal of Zhengzhou University (Engineering Science),2022,43(04):92-96+103.
75. 尹小春,卢耀辉,赵宏星,等.隧道工况下高速列车动态气密性数值分析方法[J].郑州大学学报(工学版),2022,43(05):52-8.
YIN X C, LU Y H, ZHAO H X, et al. Numerical Analysis Method for Dynamic Air Tightness Value of High-speed Train[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):52-8.
76. 刘忠玉,朱少培,崔鹏陆,等.半透水边界下饱和黏土地基的一维黏弹性固结分析[J].郑州大学学报(工学版),2022,43(05):71-7.
LIU Z Y, ZHU S P, CUI P L, et al. One-dimensional Viscoelastic Consolidation Analysis of Saturated Clay Layer with Semi-permeable Boundary[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):71-7.
77. 梁岩,赵正豪,杜晓溪,等.预应力系梁基础斜柱钢结构施工全过程受力分析[J].郑州大学学报(工学版),2022,43(05):78-83.
LIANG Y, ZHAO Z H, DU X X, et al. Analysis of the Forces in the Whole Construction Process of the Inclined Column Steel Structure of the Prestressed Beam Foundation[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):78-83.
78. 钟委,田英,韩宁,等.地下车库排烟口朝向对排烟效果的影响[J].郑州大学学报(工学版),2022,43(05):84-90.
ZHONG W, TIAN Y, HAN N, et al. Influence of Smoke Outlet Orientation on Smoke Exhaust Effect in Underground Garage[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):84-90.
79. 刘昉,张鲁丰,庞博慧,等.基于CEEMDAN和MPE的导墙振动信号降噪方法及应用[J].郑州大学学报(工学版),2022,43(05):91-7.
LIU F, ZHANG LU F, PANG B H, et al. Denoising Method of Discharge Guide Wall Vibration Signal Based on CEEMDAN and MPE and Its Application[J].Journal of Zhengzhou University (Engineering Science),2022,43(05):91-7.
80. 杨平,王岩梓,刁鹏程.上覆荷载对重塑粉质黏土补水冻胀特性影响[J].郑州大学学报(工学版),2022,43(06):83-9.
YANG P, WANG Y Z, DIAO P C. Influence of Load on Frost Heaving Characteristics of Remolded Silty Clay[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):83-9.
81. 李爱民,王海隆,许有成.优化随机森林算法的城市湖泊DOC质量浓度遥感反演[J].郑州大学学报(工学版),2022,43(06):90-6.
LI A M, WANG H L, XU Y C. Remote Sensing Retrieval of Urban Lake DOC Concentration Based on Optimized Random Forest Algorithm[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):90-6.
82. 元成方,陈阳,王世博,等.激发方式对再生砖微粉活性的影响与机理研究[J].郑州大学学报(工学版),2022,43(06):97-103+10.
YUAN C F, CHEN Y, WANG S B, et al. Study on the Effect and Mechanism of Excitation Modes on the Activity of Recycled Brick Micropowder[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):97-103+10.
83. 赵毅,段松甫,牛中浩.钢管混凝土异形柱-钢梁节点恢复力模型研究[J].郑州大学学报(工学版),2022,43(06):104-10.
ZHAO Y, DUAN S F, NIU Z H. Research on Restoring Force Modeling of Concrete-filled Steel Tubular Special-shaped Column-steel Beam Nodes[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):104-10.

丁小彬,谢宇轩,薛皓文,等. 基于神经网络算法的滚刀磨损量预测方法. 郑州大学学报（工学版）,2023,44(1):83-88,95.

Ding Xiaobin, Xie Yuxuan, Xue Haowen, etc A Method for Predicting Hob Wear Based on Neural Network Algorithms[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 83-88,95.

梁岩,张卓航,班亚云,等. 多跨连续梁-刚构桥地震易损性分析. 郑州大学学报（工学版）,2023,44(1):96-102.

Liang Yan, Zhang Zhuohang, Ban Yayun, et al Seismic vulnerability analysis of multi span continuous beam rigid frame bridges[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 96-102.

戴逸飞,杨平,王宁,等. 交叠车站下穿段MJS加固温度场变化规律研究. 郑州大学学报（工学版）,2023,44(1):103-110.

Dai Yifei, Yang Ping, Wang Ning, et al Research on the Temperature Field Change Law of MJS Reinforcement in the Underpass Section of Overlapping Stations[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 103-110.

郭成超,张顺杰,周鸿昌,等. 移动荷载作用下机场复合道面力学响应分析. 郑州大学学报（工学版）,2023,44(4):113-119.

Guo Chengchao, Zhang Shunjie, Zhou Hongchang, et al Mechanical response analysis of airport composite pavement under moving loads[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 113-119.

靳贻杰,陶勇,张婷,等. 含盐冻土冻结温度及导热系数试验研究. 郑州大学学报（工学版）,2023,44(4):120-126.

Jin Yijie, Tao Yong, Zhang Ting, et al Experimental study on freezing temperature and thermal conductivity of saline frozen soil[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 120-126.

黄远,王力. 考虑扭转作用的RC框架抗连续倒塌性能研究. 郑州大学学报（工学版）,2023,44(5):93-100.

Huang Yuan, Wang Li Research on the Continuous Collapse Resistance Performance of RC Frames Considering Torsional Action[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 93-100.

杨雅勋,王成之,柴文浩,等. 断索对曲线斜拉桥力学性能的影响. 郑州大学学报（工学版）,2023,44(5):101-107.

Yang Yaxun, Wang Chengzhi, Chai Wenhao, et al The effect of cable breakage on the mechanical properties of curved cable-stayed bridges[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 101-107.

张华,彭朝晖,张强,等. 基于DBN的艾尔西亚高等级公路施工进度风险评估. 郑州大学学报（工学版）,2023,44(5):108-113.

Zhang Hua, Peng Chaohui, Zhang Qiang, et al DBN based risk assessment of construction progress of Elsia high-grade highway[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 108-113.

郭寅川,刘逸伟,申爱琴,等. 玻璃纤维水泥稳定碎石收缩及柔化抗裂性能研究. 郑州大学学报（工学版）,2023,44(5):114-120.

Guo Yinchuan, Liu Yiwei, Shen Aiqin, et al Research on the shrinkage and softening crack resistance performance of glass fiber cement stabilized crushed stone[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 114-120.

徐鸥明,徐仁涛,李洋,等. 水泥路面沥青薄层罩面层间抗剪强度及影响. 郑州大学学报（工学版）,2023,44(5):121-126.

Xu Ouming, Xu Rentao, Li Yang, et al Shear strength and influence of asphalt thin layer overlay between cement pavement layers[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (5): 121-126.

赵军，高宁，李小鹏，雷波波，赵毅. 磁流变阻尼器滞回性能试验与计算模型分析. 郑州大学学报(工学版), 2023,44(18):91-98.

Zhao Jun, Gao Ning, Li Xiaopeng, Lei Bobo, Zhao Yi Hysteresis performance test and calculation model analysis of magnetorheological dampers[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (18): 91-98.

郭寅川，杨雪瑞，申爱琴，李震南，左孝森. 湿热环境下玄武岩纤维桥面混凝土早期抗裂性. 郑州大学学报(工学版), 2023,44(19):99-104.

Guo Yinchuan, Yang Xuerui, Shen Aiqin, Li Zhennan, Zuo Xiaosen Early crack resistance of basalt fiber bridge deck concrete in humid and hot environments[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (19): 99-104.

焦美菊，郝建名，陈露丹，郑元勋. 基于长期监测的车辆荷载效应时变极值预测. 郑州大学学报(工学版), 2023,44(20):105-111.

Jiao Meiju, Hao Jianming, Chen Ludan, Zheng Yuanxun Prediction of time-varying extreme values of vehicle load effects based on long-term monitoring[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (20): 105-111.

廖军，邓涛，唐刚，钱小龙，李镇，路军富. 风化锯齿形结构面抗剪强度特性及估算模型. 郑州大学学报(工学版), 2023,44(21):112-118.

Liao Jun, Deng Tao, Tang Gang, Qian Xiaolong, Li Zhen, Lu Junfu Shear strength characteristics and estimation model of weathered serrated structural planes[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (21): 112-118.

任亮，刘青云，方博文，温帅. 高强钢筋增强UHPC-NC组合桥墩塑性镀长度. 郑州大学学报(工学版), 2023,44(22):119-126.

Ren Liang, Liu Qingyun, Fang Bowen, Wen Shuai Plastic plating length of UHPC-NC composite bridge piers reinforced with high-strength steel bars[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (22): 119-126.

## 水利与环境

1. 田野,杨嘉敏,成少安,等. 微生物燃料电池处理废水产电及其驱动监控系统的研究[J]. 郑州大学学报（工学版）,2018,39(1):90-96.

Field, Yang Jiamin, Cheng Shao'an, et al. Research on the treatment of microbial fuel cell and its driving monitoring system [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (1): 90-96.

1. 邹露,颜雪松,胡成玉. 突发饮用水污染下的水阀和消防栓的调度研究[J]. 郑州大学学报（工学版）,2018,39(3):93-96.

Zou Lu, Yan Xuesong, Hu Chengyu. Study on the scheduling of water valves and fire hydrants under emergent drinking water pollution [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 93-96.

1. 彭赵旭,韩微,彭志远,等. 反应时间和碳磷比对单级好氧除磷的影响[J]. 郑州大学学报（工学版）,2018,39(4):46-50.

Zou Lu, Yan Xuesong, Hu Chengyu. Study on the scheduling of water valves and fire hydrants under emergent drinking water pollution [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 93-96.

1. 魏冉.基于LSDV估计法的中国主要品种能源消费影响碳排放强度效应分析[J].郑州大学学报(工学版),2019,40(2):87-91.
WEI R. The impact evaluation of the consumption of main types of energy in China on carbon emission intensity based on LSDV estimation[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):87-91.
2. 杜正,王学峰,左国民,等.环境湿度对FAIMS检测性能的影响[J].郑州大学学报(工学版),2019,40(2):92-96.
DU Z,WANG X,ZUO G, et al. The effect of humidity on FAIMS detection performance[J]. Journal of Zhengzhou University (Engineering Science), 2019,40(2):92-96.
3. 龙志伟,肖松毅,王晖,等.基于粒子群算法的水资源需求预测[J].郑州大学学报(工学版),2019,40(4):32-35+47.
LONG Z W，XIAO S Y，WANG H el at. Water resources demand prediction based on particle swarm optimization[J].Journal of Zhengzhou University (Engineering Science),2019, 40(4):32-35.
4. 李燕燕,杨昊天,曾玙璠.基于随机森林MOPSO的城市最优资本结构分析[J].郑州大学学报(工学版),2019,40(4):80-85.
LI Y Y，YANG H T，ZENG Y F .Urban optimal capital structure analysis based on random forest and MOPSO[J].Journal of Zhengzhou University (Engineering Science),2019,40(4): 14.
5. 邓少鸿,李玲,桂斌.基于任务定价的空间众包绩效提升研究[J].郑州大学学报(工学版),2019,40(4):86-91+96.
DENG S H，LI L，GUI B. Research on performance improvement of crowdsourcing based on task pricing[J]. Journal of Zhengzhou University (Engineering Science),2019,40(4):15.
6. 李宗坤,王特,葛巍,等.基于WBS-RBS和AHP的港珠澳大桥人工岛建设风险分析[J].郑州大学学报(工学版),2020,41(3):62-66.
LI Z K,WANG T,GE W,et al. Risk Analysis of artificial island construction of Hong Kong-Zhuhai-Macao bridge based on WBS-RBS and AHP methods[J].Journal of Zhengzhou University (Engineering Science),2020,41(03):62-66.
7. 韩华强,陈生水,王占军,等.母岩变形特性差异对堆石料力学性质的影响[J].郑州大学学报(工学版),2020,41(3):67-71.
HAN H Q,Chen S S,WANG Z J,et al. Influence of deformation characteristics of mother rock on mechanical properties of rockfill materials[J].Journal of Zhengzhou University (Engineering Science),2020,41(3):67-71.
8. 张双圣,强静,刘汉湖,等.基于拉丁超立方抽样的改进型多链DRAM算法求解地下水污染反问题[J].郑州大学学报(工学版),2020,41(3):72-78.
ZHANG S S,QIANG J,LIU H H,et al. Improved multi-chain DRAM algorithm based on latin hypercube sampling for inverse problems of underground water pollution[J].Journal of Zhengzhou University (Engineering Science),2020,41(3):72-78.
9. 李宗坤,宋子元,葛巍,等.基于模糊集理论的土石坝开裂破坏风险分析[J].郑州大学学报(工学版),2020,41(5):55-59.
LI Z K,SONG Z Y,GE W,et al. Risk analysis of cracking failure of earth-rock dam based on fuzzy set theory[J].Journal of Zhengzhou University (Engineering Science),2020,41(5): 55-59.
10. 窦明,胡浩东,王继华,等.城市水源地深层承压水合理开采水位阈值研究[J].郑州大学学报(工学版),2020,41(5):60-65.
DOU M,HU H D,WANG J H, et al. Study on rational water level threshold of deep confined water in urban water sources[J].Journal of Zhengzhou University (Engineering Science),2020,41(05):60-65.
11. 郜新军,段鹏辉,王磊.基坑开挖对邻近管线变形影响及控制措施研究[J].郑州大学学报(工学版),2020,41(5):66-71.
GAO X J,DUAN P H,WANG L. The influence of foundation pit excavation on deformation of adjacent underground pipelines and control measures[J].Journal of Zhengzhou University (Engineering Science),2020,41(5):66-71.
12. 彭赵旭,韩微,娄天宇,等.剩余污泥驯化过程中的除磷性能[J].郑州大学学报(工学版),2020,41(5):72-75+96.
PENG Z X,HAN W,LOU T Y,et al. Phosphorus removal performance during the recovery process of residual sludge[J].Journal of Zhengzhou University (Engineering Science),2020, 41(5):72-75+96.
13. 陈泽钦,刘国明.基于Gudehus-Bauer亚塑性模型的面板堆石坝应力变形研究[J].郑州大学学报(工学版),2020,41(6):53-59.
CHEN Z Q,LIU G M. Stress and Deformation of CFRD based on Gudehus-Bauer subplastic constitutive model[J].Journal of Zhengzhou University (Engineering Science),2020,41(6): 53-59.
14. 李强,段浩宇,高镜清,等.矿渣硅酸盐水泥除磷性能研究[J].郑州大学学报(工学版), 2022,43(3):73-80.LI Q, DUAN H Y, GAO J Q, et al. Research on phosphorus removal performance of portland blast furnace slag cement[J].Journal of Zhengzhou University (Engineering Science),2022, 43(3):73-80.
15. 彭赵旭,王炬,娄天宇,等.进水碳磷比对SBR系统污泥沉降及脱氮除磷性能的影响[J].郑州大学学报(工学版),2022,43(06):77-82.PENG Z X, WANG J, LOU T Y, et al. Effect of Influent Carbon-phosphorus Ratio on Sludge Sedimentation and Nitrogen and Phosphorus Removal in SBR System[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):77-82.

李宗坤,胡义磊,邓宇,等. 基于改进突变评价法的黄河凌汛灾害风险评价. 郑州大学学报（工学版）,2023,44(1):89-95.

Li Zongkun, Hu Yilei, Deng Yu, et al Risk assessment of the Yellow River ice flood disaster based on improved mutation evaluation method[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 89-95.

黄国如,杨格,曾博威,等. 基于绿灰蓝基础设施融合的城市洪涝灾害调控. 郑州大学学报（工学版）,2023,44(2):14-21,74.

Huang Guoru, Yang Ge, Zeng Bowei, et al Urban flood disaster control based on the integration of green, gray, and blue infrastructure[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 14-21,74.

刘曙光,郑伟强,周正正,等. 极端暴雨下城市地下空间洪涝风险及灾害防控. 郑州大学学报（工学版）,2023,44(2):22-29,81.

Liu Shuguang, Zheng Weiqiang, Zhou Zhengzheng, et al Flood risk and disaster prevention and control of urban underground space under extreme rainstorm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 22-29,81.

张金萍,张朝阳,左其亭. 极端暴雨下城市内涝模拟与应急响应能力评估. 郑州大学学报（工学版）,2023,44(2):30-37.

Zhang Jinping, Zhang Chaoyang, Zuo Qiting Urban waterlogging simulation and emergency response capability assessment under extreme rainstorm[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 30-37.

刘家宏,裴羽佳,梅超,等. 郑州"7·20"特大暴雨内涝成因及灾害防控. 郑州大学学报（工学版）,2023,44(2):38-45.

Liu Jiahong, Pei Yujia, Mei Chao, et al Causes of waterlogging and disaster prevention and control of "July 20" extremely heavy rainstorm in Zhengzhou[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 38-45.

左其亭,王鹏抗,张志卓,等. 黄河流域水资源利用水平及提升途径. 郑州大学学报（工学版）,2023,44(3):12-19.

Zuo Qiting, Wang Pengkang, Zhang Zhizhuo, et al The utilization level of water resources in the Yellow River Basin and ways to improve it[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 12-19.

郑家珂,甘容,左其亭,等. 基于PNPI与SWAT模型的非点源污染风险空间分布. 郑州大学学报（工学版）,2023,44(3):20-27.

Zheng Jiake, Gan Rong, Zuo Qiting, etc Spatial distribution of non point source pollution risk based on PNPI and SWAT models[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 20-27.

## 化工与材料及安全

1. 常春,安冉,孔鹏飞. SO42-/ZrO2/USY催化纤维素醇解制备乙酰丙酸乙酯[J]. 郑州大学学报（工学版）,2018,39(2):80-85.

Chang Chun, An Ran, Kong Pengfei. SO42-catalyzed cellulose- / ZrO2 / USY [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 80-85.

1. 苏雷生,林钰,董林,等. 退火温度对Nb掺杂TiO2薄膜结构与性能的影响[J]. 郑州大学学报（工学版）,2018,39(2):86-91.

Su Leisheng, Lin Yu, Dong Lin, et al. Effect of the annealing temperature on the structure and properties of Nb-doped TiO2 thin films [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 86-91.

1. 卢红霞,吕泽刚,程向前,等. 利用废渣一次烧结制备微晶玻璃釉面砖的研究[J]. 郑州大学学报（工学版）,2018,39(2):92-96.

Lu Hongxia, Lu Zegang, Cheng Xiangqian, and so on. Study on the preparation of microcrystalline glass glazed brick by primary sintering of waste slag [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (2): 92-96.

1. 吴超,杨冕,王秉. 科学层面的安全定义及其内涵、外延与推论[J]. 郑州大学学报（工学版）,2018,39(3):1-4,28.

Wu Chao, Yang Mian, Wang Bing. Scientific definition of safety and its connotation, denotation and inference [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 1-4,28.

1. 梁天水,李润婉,张单单,等. 含添加剂细水雾熄灭醇类火焰的有效性实验研究[J]. 郑州大学学报（工学版）,2018,39(3):5-9.

Liang Tianshui, Li Runwan, Zhang solely, and so on. Experimental study on the effectiveness of extinguishing alcohol flame with additives [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 5-9.

1. 胡业发,王彬,张锦光,等. 基于FBG传感的CFRP层合板低速冲击响应监测[J]. 郑州大学学报（工学版）,2018,39(3):82-86.

Hu Yefa, Wang Bin, Zhang Jinguang, et al. Low-speed impact response monitoring of CFRP lamins based on FBG sensing [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (3): 82-86.

1. 韩秀丽,谷鹏举,方书起,等. Fe3 O4磁性壳聚糖微球固定化脂肪酶研究[J]. 郑州大学学报（工学版）,2018,39(4):30-35.

Han Xiuli, Gu Pengju, Fang Shuqi, and so on. Fe3 O4 Immobilized lipase study of magnetic chitosan microspheres [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 30-35.

1. 万俊锋,蔡利芳,张玉聪,等. 零价铁对上流式固定床中生物氧化三价砷的影响[J]. 郑州大学学报（工学版）,2018,39(4):36-40.

Wan Junfeng, CAI Lifang, Zhang Yucong, et al. Effect of zero-valent iron on biologically oxidized trivalent arsenic in an upflow fixed bed [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (4): 36-40.

1. 张宾朋,韩秀丽,方书起,等. 响应面法优化脱硅稻壳基活性炭对恩诺沙星的吸附[J]. 郑州大学学报（工学版）,2018,39(6):64-68.

Zhang Binpeng, Han Xiuli, Fang Shuqi, et al. Optimizing the adsorption of silica rice husk-based activated carbon to enrofloxacin by response surface method [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 64-68.

1. 刘周明,盛遵荣,叶松,等. 高温吸附热泵中传质通道强化蒸汽生成的实验研究[J]. 郑州大学学报（工学版）,2018,39(6):69-73.

Liu Zhouming, Sheng Zunrong, Ye Song, et al. Experimental study on enhanced vapor generation by mass transfer channel in high temperature adsorption heat pump [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 69-73.

1. 谭国锋,王珂,王永庆,等. 折流板安装角对扇叶型折流板换热器性能影响[J]. 郑州大学学报（工学版）,2018,39(6):74-77.

Tan Guofeng, Wang Ke, Wang Yung-ching, et al. Installation angle affects performance of heat exchanger [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 74-77.

1. 邹卫华,符艳真,刘鹏磊,等. 改性柚皮对水体中盐酸环丙沙星的动态吸附研究[J]. 郑州大学学报（工学版）,2018,39(6):78-82.

Zou Weihua, Fu Yanzhen, Liu Penglei, et al. Dynamic adsorption of ciprofloxacin hydrochloride by modified pomelo peel in water body [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 78-82.

1. 刘艳萍,魏航航,李倩. 聚乳酸立构复合晶体的表面形貌及其力学性能[J]. 郑州大学学报（工学版）,2018,39(6):83-87.

Liu Yanping, Wei Hanghang, Li Qian. Surface morphology and mechanical properties of PLA orthosteric composite crystals [J]. Journal of Zhengzhou University (Engineering edition), 2018,39 (6): 83-87.

1. 何声馨,刘坤坤,王锐,等.喷丸表面的最佳粗糙度参数与材料硬度的关系[J].郑州大学学报(工学版),2019,40(1):83-86.
HE S X,LIU K K,WANG R, et al. The relationship between the optimum roughness parameters and the hardness of the material[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):83-86.
2. 孙斌,郭伟,顾建兵,等.氧化石墨烯/丁苯橡胶复合材料力学性能的分子动力学模拟[J].郑州大学学报(工学版),2019,40(1):87-91.
SUN B,GUO W,GU J B, et al. Molecular dynamics simulation of mechanical properties of graphene oxide / styrene butadiene rubber composites[J].Journal of Zhengzhou University (Engineering Science), 2019,40(1):87-91.
3. 韩润平,房丽燕,李小钰,等.聚乙烯亚胺负载四氧化三铁对刚果红的吸附性能[J].郑州大学学报(工学版),2019,40(2):59-65.
HAN R P,FANG L Y,LI X Y, et al. Removal of congo red by PEI@Fe3O4 magnetic composites in batch mode[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):59-65.
4. 陈俊英,周航宇,唐焕妍,等.响应面法优化纤维素基载体固定糖化酶的研究[J].郑州大学学报(工学版),2019,40(2):66-71.
CHEN J Y,ZHOU H Y,TANG H Y, et al. Optimization for cellulose carrier immobilized glucoamylase by response surface methodology[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):66-71.
5. 代坤,孔威威,展鹏飞,等.石墨烯/TPU/PDMS导电复合材料的拉伸敏感性能研究[J].郑州大学学报(工学版),2019,40(2):72-76.
DAI K,KONG W W,ZHAN P F,et al. A study on tensile saensitive behaviors of graphene / thermoplastic polyurethane / polydimethy lsiloxane conductive polymer Composites[J]. Journal of Zhengzhou University (Engineering Science), 2019,40(2):72-76.
6. 马楠楠,职红涛,段建榜,等.PAN基弱碱性离子交换纤维对钒的吸附性能研究[J].郑州大学学报(工学版),2019,40(2):77-81.
MA N N,ZHI H T,DUAN J B, et al. Adsorption performance of weak alkaline ion exchange fiber for vanadium[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):77-81.
7. 贾全利,闫帅,汪涤,等.熔盐法制备钽酸钠超细粉体及其光催化性能研究[J].郑州大学学报(工学版),2019,40(2):82-86.
JIA Q L,YAN S,WANG D, et al. The preparation and photocatalytic properties of NaTaO3 ultrafine powders Via a molten salt mediated method[J].Journal of Zhengzhou University (Engineering Science), 2019,40(2):82-86.
8. 陈卫航,张惠,张婕.SO42-/TiO2固体酸降解莲房中高聚体原花青素研究[J].郑州大学学报(工学版),2019,40(3):42-47.
CHEN W H, ZHANG H, ZHANG J. Research on degradation of high polymer procyanidins from the lotus seed pot with SO42-/TiO2 solid acid[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):42-47.
9. 张翔,冯修,职红涛,等.重金属捕集剂TDDP的合成及性能研究[J].郑州大学学报(工学版),2019,40(3):48-51.
ZHANG X,FENG X,ZHI H T, et al. Synthesis of heavy metal capturing agent TDDP and investigation on its performance[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):48-51.
10. 张婕,陈闯,周国莉,等.磷酸插层氧化石墨烯强化膜质子传导特性研究[J].郑州大学学报(工学版),2019,40(3):52-56.
ZHANG J,CHEN C,ZHOU G L, et al. Investigation of proton conduction enhancement of membrane by phosphoric acid intercalated graphene oxide[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):52-56.
11. 丁湛,蒋修明,赵浚凯,等.橡胶沥青黏度影响因素及黏流特性分析[J].郑州大学学报(工学版),2019,40(3):57-62.
DING Z,JIANG X,ZHAO J K,et al. The influencing factors analysis of viscosity and viscous flow properties for rubber asphalt[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):57-62.
12. 刘忠柱,秦琦,李睢水,等.有序定构聚集态β-iPP薄膜的重结晶行为研究[J].郑州大学学报(工学版),2019,40(3):63-67.
LIU Z Z,QIN Q,LI S S, et al. The crystallization behavior of β-i PP film with different ordered melt structures[J].Journal of Zhengzhou University (Engineering Science), 2019,40(3):63-67.
13. 胡国勤,孙芳星,刘景辉,等.超临界溶液快速膨胀法制备盐酸氟桂利嗪微粒的研究[J].郑州大学学报(工学版),2019,40(6):57-61+67.
HU G Q，SUN F X，LIU J H, el at. Micronization of flunarizine hydrochloride via rapid expansion of supercritical solution[J].Journal of Zhengzhou University (Engineering Science),2019,40(6):57-61+67.
14. 李斯,张宇,周颖,等.纳米Al2O3增韧MoSi2复合陶瓷的性能及机理研究[J].郑州大学学报(工学版),2019,40(6):62-67.
LI S，ZHANG Y，ZHOU Y, el at. Properties and mechanism of Nano-Al2O3 toughened MoSi2 composite[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6): 62-67.
15. 孙旭光,王春凯,刘昶,等.基于碳纳米管-聚合物的柔性触觉传感器研究[J].郑州大学学报(工学版),2019,40(6):1-5.
SUN X G，WANG C K，LIU C, el at.Research on flexible tactile sensor based on carbon nanotube-polymer [J].Journal of Zhengzhou University (Engineering Science),2019,40(6): 1-5.
16. 马瑞,张文涛,李芳.基于超磁致伸缩材料的光纤磁场传感器[J].郑州大学学报(工学版),2019,40(6):6-10.
MA R，ZHANG W T，LI F.A fiber optic magnetic sensor utilizing giant magnetostrictive materials and fiber bragg grating fabry-perot cavity [J].Journal of Zhengzhou University (Engineering Science),2019,40(6):6-10.
17. 于旺可,何秀丽,高晓光,等.基于离子迁移谱的恶臭污染物快速检测方法[J].郑州大学学报(工学版),2019,40(6):11-15+22.
YU W K，HE X L，GAO X G, el at.Rapid detection of malodor by Ion mobility spectrometry[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):11-15.
18. 刘彩霞,朱文瑾,王志强,等.多孔状复合介质层电容式柔性触觉传感器研究[J].郑州大学学报(工学版),2019,40(6):16-22.
LIU C X，ZHU W J，WANG Z Q el at. Research on capacitive flexible tactile sensor based on porous composite dielectric layer[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):16-22.
19. 阙慧颖,陈朝阳,孔熙瑞,等.LiMgPO4∶Tb光致发光材料的制备及剂量学性能研究[J].郑州大学学报(工学版),2019,40(6):23-26.
QUE H Y，CHEN Z Y，KONG X R, el at. Synthesis and OSL studies of Li MgPO4∶ tb material for radiation dosimetry[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):23-26.
20. 李娜,向群,程知萱,等.多孔SnO2空心球材料的合成及甲醛气敏性能研究[J].郑州大学学报(工学版),2019,40(6):27-31.
LI N，XIANG Q，CHENG Z X，el at. Synthesis of porous SnO2 hollow sphere materials and gas sensing properties of formaldehyde[J].Journal of Zhengzhou University (Engineering Science), 2019,40(6):27-31.
21. 高凡,张旭升,王敏,等.基于甲烷氢呼气的人体胃肠道疾病检测电子鼻及诊断模型[J].郑州大学学报(工学版),2019,40(6):32-37+52.
GAO F，ZHANG X S，WANG M, el at. Electronic nose and diagnosis model for the detection of human gastrointestinal diseases based on hydrogen and methane breath test [J].Journal of Zhengzhou University (Engineering Science),2019,40(6):32-37.
22. 曹晨璐,曹春梅,郭美圆,等,高健.Pd掺杂ZnO材料的制备及其对NO2气敏性能研究[J].郑州大学学报(工学版),2019,40(6):38-42.
CAO C L，CAO C M，GUO Meiyuan，el at. Synthesis,Characterization and Nitrogen Dioxide Gas Sensing Applications of Pd Doped ZnO Material [J].Journal of Zhengzhou University (Engineering Science),2019,40(6):38-42.
23. 刘雪莉,张玉凤,梁勇,等.用于硫化氢快速检测的声表面波传感器设计[J].郑州大学学报(工学版),2019,40(6):43-46.
LIU X L，ZHANG Y F，LIANG Y, el at. Design of surface acoustic wave sensor for rapid detection of hydrogen sulfide[J]. Journal of Zhengzhou University (Engineering Science), 2019,40(6):43-46.
24. 樊尚春,张津,朱黎明.石墨烯谐振式压力传感器敏感结构研究[J].郑州大学学报(工学版),2019,40(6):47-52.
FAN S C，ZHANG J，ZHU L M. Study on sensitive structure of graphene resonant pressure sensor[J].Journal of Zhengzhou University (Engineering Science),2019,40(06):47-52.
25. 帕提曼·尼扎木丁,玛日耶姆·图尔贡,阿布力孜·伊米提. MOFs薄膜的可控制备及在光波导气体传感器中的应用[J].郑州大学学报(工学版),2019,40(6):53-56.
PATIMA N Z M D，MA R,YA M， el at. Controllable fabrication of MOFs film and application in optical waveguide gas sensor [J].Journal of Zhengzhou University (Engineering Science),2019,40(6):53-56.
26. 邹卫华，刘鹏磊,刘秋节,等.磁性活性炭对水体中磺胺嘧啶钠的吸附机理研究[J].郑州大学学报(工学版),2020,41(4):92-96.
ZOU W H,LIU P L,LIU Q J, et al. Investigation into the adsorption mechanism of sulfadiazine sodium in aqueous solution using magnetic biochar[J].Journal of Zhengzhou University (Engineering Science), 2020,41(4):92-96.
27. 张涛,郭一民,李卓扬,等.碳量子点诱导人体肝癌细胞凋亡的研究[J].郑州大学学报(工学版),2020,41(5):1-7.
ZHANG T,GUO Y M,LI Z Y, et al. Carbon quantum dots as potent agent to induce apoptosis of human hepatoma cells[J].Journal of Zhengzhou University (Engineering Science),2020, 41(5): 1-7.
28. 卢红霞,高凯,李明亮,等.以高炉渣为助烧剂制备ZTA/TiC复合陶瓷及其性能研究[J].郑州大学学报(工学版),2020,41(5):8-14.
LU H X,GAO K,LI M L,et al. Preparation of ZTA/TiC composite ceramics using blast furnaceslag as sintering aid[J].Journal of Zhengzhou University (Engineering Science),2020, 41(5):8-14.
29. 郭美圆,曹晨璐,曹春梅,等.石墨烯为载体的Pd/SnO2合成及其CO气敏性能研究[J].郑州大学学报(工学版),2020,41(5):15-20.
GUO M Y,CAO C L,CAO C M,et al. Synthesis of Pd Doped SnO2/Graphene composites and its gas sensing properties to CO[J].Journal of Zhengzhou University (Engineering Science), 2020, 41(5):15-20.
30. 炊宁博,黄佳佳,原思国,等.新型N、S共掺杂微孔碳材料的制备及性能研究[J].郑州大学学报(工学版),2020,41(5):21-25+36.
CHUI N B,HUANG J J,YUAN S G, et al. Preparation and properties of novel N,S-codoped microporous carbon[J].Journal of Zhengzhou University (Engineering Science),2020,41(5): 21-25+36.
31. 邹云,王起龙,李阳,等.基于超声纳米表面改性的镁锂合金强化研究[J].郑州大学学报(工学版),2020,41(5):26-30.
ZOU Y,WANG Q L,LI Y,et al. Strengthening research of Mg-Li alloy based on ultrasonic nanocrystal surface modification[J].Journal of Zhengzhou University (Engineering Science),2020,41(05):26-30.
32. 贾瑞娟,王钰翠,常春,等.Fe/Cu纳米复合材料对罗丹明B的吸附性能研究[J].郑州大学学报(工学版),2020,41(5):31-36.
JIA R J,WANG Y C,CHANG C,et al.The adsorption characteristics of Fe/Cu nanocomposites to rhodamine B[J].Journal of Zhengzhou University (Engineering Science),2020, 41(5): 31-36.
33. 王建设,闫杰杰,张冲,等.Pd/CeO2湿法构筑及催化甲酸盐、乙醇电氧化研究[J].郑州大学学报(工学版),2020,41(6):85-91.
WANG J S,YAN J J,ZHANG C, et al. Wet-chemistry fabrication of Pd/CeO2 interfaces and comparison with Pd /SnO2 in terms of formate and ethanol electro-oxidation catalysis[J]. Journal of Zhengzhou University (Engineering Science),2020,41(06):85-91.
34. 李莎莎,常英杰,赵洁,等.盐酸丁卡因多晶型制备和溶解度测定与关联[J].郑州大学学报(工学版),2020,41(6):92-96.
LI S S,CHANG Y J,ZHAO J, et al. Preparation of polymorphism of tetracaine hydrochloride and measurement and correlation of the solubility[J].Journal of Zhengzhou University (Engineering Science),2020,41(6):92-96.
35. 罗文,孙本双,刘书含,等.ITO陶瓷靶材溅射过程中结瘤行为研究[J].郑州大学学报(工学版),2021,42(2):87-92.
LUO W，SUN B S，LIU S H, et al. Study on nodulation behavior of ITO ceramic target during sputtering[J].Journal of Zhengzhou University (Engineering Science),2021, 42(2): 87-92.
36. 李伟庆,朱世杰,孙玉峰,等.医用Mg-Zn-Y-Nd合金微细管材的制备及组织性能研究[J].郑州大学学报(工学版),2021,42(2):93-97.
LI W Q，ZHU S J，SUN Y F, et al. Preparation，microstructure and properties of medical Mg-Zn-Y-Nd alloy micro-tubes[J].Journal of Zhengzhou University (Engineering Science),2021,42(2):93-97.
37. 赵建宏,马珂珂,程相林,等.丙烯酸改性醇酸树脂的合成及乳液性能研究[J].郑州大学学报(工学版),2021,42(3):65-69.
ZHAO J H，MA K K，CHENG X L, et al.Syntheses of acrylic modified alkyd resin and study on the properties of emulsion[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):65-69.
38. 秦世斌,杨聪俐,赵大力,等.淬火和回火温度对GX160CrMoV12钢显微组织和力学性能的影响[J].郑州大学学报(工学版),2021,42(3):70-75.
QIN S B，YANG C Li，ZHAO D L ,et al.Effects of quenching and tempering temperature on microstructure and mechanical properties of GX160CrMoV12 steel[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):70-75.
39. 张银霞,杨鑫,原少帅,等.喷丸工艺对DC53钢表面完整性的影响试验研究[J].郑州大学学报(工学版),2021,42(3):76-80.
ZHANG Y X，YANG X，YUAN S S ,et al. Study on the effect of shot peening process on the surface integrity of DC53 Steel[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):76-80.
40. 李洋,郑艳萍,梁帅,等.微流控材料环烯烃共聚物(COC)疏水性恢复实验研究[J].郑州大学学报(工学版),2021,42(3):81-86.
LI Y，ZHENG Y P，LIANG S, et al.Hydrophobicity recovery study for COC materials based on microfluidic[J].Journal of Zhengzhou University (Engineering Science),2021,42(3):81-86.
41. 朱强,张东生,范宇恒,等.基体碳种类对C/Cu复合材料界面浸润行为的影响[J].郑州大学学报(工学版),2021,42(5):100-105.
ZHU Q，ZHANG D S，FAN Y H ,et al.Effect of matrix carbon species on interface wetting behavior of C / Cu composites[J].Journal of Zhengzhou University (Engineering Science), 2021, 42(5):100-105.
42. 郑瑾,张琦,宋梦,等.D5中聚酯结构变化的分子模拟研究[J].郑州大学学报(工学版),2021,42(5):106-110.
ZHENG J，ZHANG Q，SONG M ,et al. Molecular simulation study on structural change of polyesters in D5[J].Journal of Zhengzhou University (Engineering Science),2021,42(5): 106-110.
43. 孙佳庆,李江涛,郭春文,等.沉积条件对CVD-SiC涂层组织形貌和抗氧化性能的影响[J].郑州大学学报(工学版),2021,42(6):74-79.
SUN J Q，LI J T，GUO C W ,et al.Effects of deposition conditions on morphology and oxidation resistance of CVD-SiC coatings[J].Journal of Zhengzhou University (Engineering Science),2021,42(6):74-79.
44. 钟科,王雪,张勐,等.单组份聚氨酯固化规律及黏结特性研究[J].郑州大学学报(工学版),2021,42(6):80-84+92.
ZHONG K，WANG X，ZHANG M, et al. Curing and adhesive characteristics of monocomponent polyurethane binders[J]. Journal of Zhengzhou University (Engineering Science),2021,42(6):80-84+92.
45. 罗文,郝振华,李树荣,等.氧化铟和氧化锡混合粉体喷雾造粒工艺研究[J].郑州大学学报(工学版),2022,43(2):98-104.
LUO W, HAO Z H, LI S R, et al. Process research on spray granulation of mixed indium oxide and tin oxide powder[J].Journal of Zhengzhou University (Engineering Science),2022, 43(2): 98-104.
46. 梁天水,张俊格,毛思远,等.NaHCO3 与典型气体协同灭火效果研究[J].郑州大学学报(工学版),2022,43(3):81-86.

LIANG T S, ZHANG J G，MAO S Y, et al. Study on synergistic fire extinguishing effect of NaHCO3, and typical gas[J].Journal of Zhengzhou University (Engineering Science),2022, 43(3):81-86.

1. 张晓羽,郭红博,邹卫华.PEI改性沙柳对水中酸性铬兰K的吸附作用研究[J].郑州大学学报(工学版),2022,43(3):87-92.

ZHANG X Y, GUO H B, ZOU W H. Investigation into the adsorption mechanism of acid chrome blue K in aqueous solution using polyethyleneimine modified salix[J].Journal of Zhengzhou University (Engineering Science),2022,43(3):87-92.

1. 孙超,张振洲,陈宝见,等.Na对Fe-Zn催化剂结构及CO2加氢制烯烃的影响[J].郑州大学学报(工学版),2022,43(04):97-103.

SUN C, ZHANG Z Z, CHEN B J, et al. Effects of Na on Structure of Fe-Zn Catalysts and Their Consequences for Olefins Formation during CO2 Hydrogenation[J].Journal of Zhengzhou University (Engineering Science), 2022,43(04):97-103.

1. 张先乐,刘自豪,黄浩,等.In2O3/TiO2室温氢气传感器及其优异的氢敏性能[J].郑州大学学报(工学版),2022,43(04):104-110.

ZHANG X L, LIU Z H, HUANG H, et al. Research of In2O3/Ti02 Room Temperature Hydrogen Sensors and Its Excellent Hydrogen Sensitivity [J].Journal of Zhengzhou University (Engineering Science),2022,43(04):104-110.

1. 员紫梦,刘单单,黄佳佳.黏结剂对钾硫电池正极材料性能的影响研究[J].郑州大学学报(工学版),2022,43(06):70-6.

YUAN Z M, LIU D D, HUANG J J. Effect of Binders on the Performance of SPAN Cathode for Potassium-sulfur Batteries[J].Journal of Zhengzhou University (Engineering Science),2022,43(06):70-6.

张亚涛,刘宗凯,董冠英. 埃洛石纳米管在膜分离领域的应用. 郑州大学学报（工学版）,2023,44(1):1-12.

Zhang Yatao, Liu Zongkai, Dong Guanying The application of halloysite nanotubes in membrane separation[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 1-12.

朱军勇,陈田田,韩双乔,等. 共价有机框架液体分离膜的研究进展. 郑州大学学报（工学版）,2023,44(1):13-23,51.

Zhu Junyong, Chen Tiantian, Han Shuangqiao, et al Research progress in covalent organic framework liquid separation membranes[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (1): 13-23,51.

陈珍珍,路培,符贵,等. 小檗碱改性羧甲基纤维素的制备及抑菌性评价. 郑州大学学报（工学版）,2023,44(2):104-110.

Chen Zhenzhen, Lu Pei, Fu Gui, etc Preparation and antibacterial evaluation of berberine modified carboxymethyl cellulose[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (2): 104-110.

李华,齐鹏飞,杨忠花. 有机硅改性环氧NIPU防腐涂料的制备及其性能研究. 郑州大学学报（工学版）,2023,44(3):102-107.

Li Hua, Qi Pengfei, Yang Zhonghua Preparation and performance study of organic silicon modified epoxy NIPU anti-corrosion coating[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 102-107.

汪涵迪,张东生,李江涛,等. 增密工艺对C/C-Cu复合材料组织和性能的影响. 郑州大学学报（工学版）,2023,44(3):108-113,127.

Wang Handi, Zhang Dongsheng, Li Jiangtao, et al The effect of densification process on the microstructure and properties of C/C-Cu composites[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 108-113127.

李建,黎文强,张伟伟,等. 灰铸铁制动鼓的热循环开裂分析及表面改性. 郑州大学学报（工学版）,2023,44(3):114-120.

Li Jian, Li Wenqiang, Zhang Weiwei, et al Analysis of thermal cycling cracking and surface modification of gray cast iron brake drums[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (3): 114-120.

张长森,李聪聪,代稳月,等. K负载Sn0.4Ce0.6O2对碳烟的催化燃烧性能研究. 郑州大学学报（工学版）,2023,44(4):74-79.

Zhang Changshen, Li Congcong, Dai Wenyue, et al Study on the catalytic combustion performance of K-loaded Sn0.4Ce0.6O2 on carbon smoke[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 74-79.

高金星,李丽亚,穆菁华,等. 骨替代生物陶瓷材料的研究现状. 郑州大学学报（工学版）,2023,44(4):80-87.

Gao Jinxing, Li Liya, Mu Jinghua, etc Research status of bone replacement bioceramic materials[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 80-87.

陈毛,张少军,李荣斌,等. 竖罐炼镁过程中镁蒸气流动相变规律. 郑州大学学报（工学版）,2023,44(4):88-93.

Chen Mao, Zhang Shaojun, Li Rongbin, et al The phase transition law of magnesium vapor flow in the process of vertical magnesium smelting[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 88-93.

牛新勇,常春,韩秀丽,等. 氮掺杂活性炭对环丙沙星的吸附性能与机理. 郑州大学学报（工学版）,2023,44(4):94-100,106.

Niu Xinyong, Chang Chun, Han Xiuli, et al The adsorption performance and mechanism of nitrogen doped activated carbon on ciprofloxacin[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 94-100106.

陶梦雅,高正霞,刘伟,等. 氧化铁对稳定镁白云石材料性能的影响. 郑州大学学报（工学版）,2023,44(4):101-106.

Tao Mengya, Gao Zhengxia, Liu Wei, et al The effect of iron oxide on the properties of stabilized magnesium dolomite materials[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 101-106.

孙鑫,王献丽,马晓吉,等. PB试验-响应面法优化黄芩提取物的纯化工艺. 郑州大学学报（工学版）,2023,44(4):107-112,119.

Sun Xin, Wang Xianli, Ma Xiaoji, et al Optimization of the purification process of Scutellaria baicalensis extract using PB test response surface methodology[J]. Journal of Zhengzhou University (Engineering Science), 2023,44 (4): 107-112119.