

ISSN 1008-0171

CN 44-1438/N

JOURNAL OF FOSHAN UNIVERSITY

佛山科学技术学院学报

NATURAL SCIENCE EDITION 自然科学版



1

2020

第38卷 第1期

Vol.38 No.1



中国 佛山
Foshan China

《CAJ-CD规范》执行优秀奖

全国优秀农业期刊

广东省特色科技期刊

美国《化学文摘》(CA)收录刊源

俄罗斯《文摘杂志》(AJ)收录刊源

德国《数学文摘》(ZBI, Math)收录刊源

《中国数学文摘》《中国数学文献数据库》收录刊源

万方数据

佛山科学技术学院学报

(自然科学版)

2020年1月 第38卷第1期(总第183期)

目次

• 机电与自动化 •

- 基于旋量理论的并联机构过约束分析步骤的改进.....汪建晓(1)
基于Proteus和MedWin V3.0的直流数字电压表的设计.....严敏(10)
基于SolidWorks的链传动装置参数化建模与运动仿真.....陈雷,代丽华,刘莉,等(15)

• 医学 •

- 超声测量6~12岁儿童呼吸末腹腔干与主动脉夹角及腹腔干血流峰值
.....王玉莹,韦德湛,宁浩杰,等(20)
心理干预对微种植体支抗植入患者术后疼痛影响的研究.....艾毅龙(25)

• 数理科学 •

- 一类数列的爆破与衰减.....王成强(29)
多元微积分中二重极限计算方法及解析.....马艳丽,褚正清(33)
关于对合BCK代数.....凌雪岷(39)

• 土木工程 •

- 基坑开挖对地铁的影响分析.....鲁志杰(44)
某预应力混凝土筒支空心板桥加固性能试验研究.....高勇(48)

• 信息科学 •

- 子载波索引拓展的正交频分复用.....刘雪花,王健,罗家兵,等(55)
频道技术在高校计算机实验室建设中的应用.....邵林,辜媛(61)
基于消息池的车联网信息安全高效认证算法.....李楠(64)

• 农业与生物技术 •

- 不同水煮条件下糙海参体壁流变学参数变化.....梁敬林,钟鸣,曾巧辉(69)
吡啶在有机合成中的应用.....王磊,刘中付,肖陆飞(74)

本期执行编辑:任小平

责任校对:马良

英文译校:梁燕云

期刊基本参数:CN44-1438/N * 1983 * b * A4 * 80 * zh * P * ¥20.00 * 1000 * 15 * 2020-01

JOURNAL OF FOSHAN UNIVERSITY

(Natural Science Edition)

Vol. 38 No. 1 (Sum No. 183) Jan. 2020

CONTENTS

• Electromechanics and Automation •

- Improvements of the overconstraint analysis steps for parallel mechanisms based on screw theory
.....WANG Jian-xiao(1)
- Design of DC digital voltmeter based on Proteus and MedWin V3.0.....YAN Min (10)
- Parametric modeling and motion simulation of chain transmission device based on SolidWorks
.....CHEN Lei, DAI Li-hua, LIU Li, et al (15)

• Medicine •

- Ultrasonic measurement of angle between celiac trunk and aorta and the peak blood flow of celiac trunk
in children aged 6~12 years old.....WANG Yu-ying , WEI De-zhan, NING Hao-jie, et al (20)
- Effect of psychological intervention on postoperative pain in patients with mini-implant anchorage
implantation.....AI Yi-long (25)

• Mathematic Science •

- Blow up and decay of a class of sequences.....WANG Cheng-qiang (29)
- Study on the calculation methods of double limit and its explanations in multivariable calculus course
.....MA Yan-li, CHU Zheng-qing (33)
- On involution BCK-algebrasLING Xue-min (39)

• Civil Engineering •

- The influence of deep foundation excavation pit on adjacent metro.....LU Zhi-jie (44)
- Experimental strengthening performance of a prestressed concrete simply supported hollow slab bridge
.....GAO Yong (48)

• Information Science •

- Orthogonal frequency division multiplexing with extended subcarrier index
.....LIU Xue-hua, WANG Jian, LUO Jia-bing, et al (55)
- Application of channel technology in the construction of computer laboratory in colleges and universities
.....SHAO Lin, GU Yuan (61)
- Efficient security authentication algorithms for vehicle networking information based on message pool
.....LI Nan (64)

• Agriculture and Biotechnology •

- Study on the rheological parameters of holothuria scabra under different cooking conditions
.....LIANG Jing-lin, ZHONG Ming, ZENG Qiao-hui (69)
- Applications of pyridine in organic synthesis.....WANG Lei, LIU Zhong-fu, XIAO Lu-fei (74)

Serial parameters: CN4-1438/N * 1983 * b * A4 * 80 * zh * P * ¥20.00 * 1000 * 15 * 2020-01