



研究论文

空间物理

- 非对称磁场重联电子扩散区附近的能量通量分析 王俊, 周猛, 庞烨, 邓晓华 (795)
磁暴期间 OI 135.6 nm 气辉经纬及高度分布的变化特征 李春来, 吕建永, 李婧媛 (807)
张衡一号卫星探测的赤道附近电场分布及其与电离层分布的关系
..... 何宏玮, 王秀英, 赵国存, 杨德贺, 王桥, 黄建平 (821)
雷暴电场对 LHAASO 观测面宇宙线次级粒子横向分布的影响
..... 陈林, 周勋秀, 阿西克吉, 黄代绘, 王培汉, 陈学健 (833)
Image Feature Extraction and Matching of Augmented Solar Images in Space Weather
..... WANG Rui, BAO Lili, CAI Yanxia (840)

行星科学

- 月球熔岩管探测中月表杂波识别方法仿真 马士璇, 董晓龙, 朱迪, 马剑英, 白东锦 (853)
基于 DRO 的小行星往返飞越探测轨道设计优化方法 董博文, 于锡峰, 李明涛, 王楷铎, 王有亮 (864)

微重力与空间生命科学

- 重力跳变引起的贮箱内气液界面波传播规律 魏列, 杜王芳, 薛子扬, 何发龙, 李凯, 赵建福 (875)
基于压力驱动多液滴浸润状态响应调控 陈聪, 蓝鼎, 王进 (883)
不同重力环境和倾斜角度对毛细管内界面振荡行为的影响
..... 霍晓智, 王晴, 顾君苹, 王战涛, 于强, 王庆功 (890)
不同气氛热冲击下 Al:WS₂ 薄膜摩擦学性能的响应机理 刘建, 剁珍, 郝俊英, 刘维民 (899)
基于超高分辨率和超长深度光学相干层析成像技术的悬尾鼠航天相关神经眼综合征研究
..... 陈思思, 张玺, 郑谷, 汪庆映, 丁学雯, 陈宇雷, 舒咬根 (907)

空间探测技术

- 航天传感器响应波段星等计算方法 勾万祥, 贾靖玉, 陈少杰, 李崇辉, 郑勇 (916)
基于参数自适应优化聚类的卫星状态异常检测方法 赵玉炜, 苏举 (927)
载荷管理器通用地检测试板卡的系统设计 李旭峰, 周莉, 朱岩, 赵文杰, 郝澄 (938)
基于宇航级 FPGA 的 YOLOv5s 网络模型硬件加速 蒋康宁, 周海, 卞春江, 汪伶 (950)
高精度矢量磁力仪地面测试定标系统大型磁屏蔽室仿真分析 李志宏, 王劲东, 吕尚, 万任新 (963)

Research Articles

Space Physics

- Analysis of the Energy Flux Density near Electron Diffusion Region of Asymmetric Magnetic Field Reconnection *WANG Jun, ZHOU Meng, PANG Ye, DENG Xiaohua* (795)
- Variation in the Longitude-latitude Distribution and Latitude-altitude Distribution of OI 135.6 nm Airglow during Magnetic Storms *LI Chunlai, LU Jianyong, LI Jingyuan* (807)
- Distribution of Equatorial Electric Field and Its Relation with Ionosphere Distribution Detected by the ZH-1Satellite *HE Hongwei, WANG Xiuying, ZHAO Guocun, YANG Dehe, WANG Qiao, HUANG Jianping* (821)
- Effects of Thunderstorms Electric Field on the Lateral Distribution of Cosmic Ray Secondary Particles at LHAASO *CHEN Lin, ZHOU Xunxiu, Axikegu, HUANG Daihui, WANG Peihan, CHEN Xuejian* (833)
- Image Feature Extraction and Matching of Augmented Solar Images in Space Weather *WANG Rui, BAO Lili, CAI Yanxia* (840)

Planetary Science

- Simulation of Surface Clutter Recognition Method in Lunar Lava Tube Exploration *MA Shixuan, DONG Xiaolong, ZHU Di, MA Jianying, BAI Dongjin* (853)
- Orbit Design Optimization Method for an Asteroid Flyby Mission from DRO *DONG Bowen, YU Xizheng, LI Mingtao, WANG Kaiduo, WANG Youliang* (864)

Microgravity and Space Life Science

- Wave Propagation Law at the Gas-liquid Interface in a Storage Tank Due to Gravity Jumps *WEI Lie, DU Wangfang, XUE Ziyang, HE Falong, LI Kai, ZHAO Jianfu* (875)
- Research on Response Regulation of Pressure-driven Multi-droplet Wetting State *CHEN Cong, LAN Ding, WANG Jin* (883)
- Effects of Gravity Level and Tilt Angle on Oscillation of Capillary Rise *HUO Xiaozhi, WANG Qing, GU Junping, WANG Zhantao, YU Qiang, WANG Qinggong* (890)
- Response Mechanism of Tribological Properties of Al:WS₂ Film under Different Ambient Thermal Shock *LIU Jian, YAN Zhen, HAO Junying, LIU Weimin* (899)
- Study on Spaceflight-associated Neuro-ocular Syndrome with the Rat Tail Suspension by ULOCT and UHROCT *CHEN Sisi, ZHANG Xi, ZHENG Gu, WANG Qingying, DING Xuewen, CHEN Yulei, SHU Yaogen* (907)

Space Exploration Technology

- Calculation Method for Response Band Magnitude of Aerospace Sensors *GOU Wanxiang, JIA Jingyu, CHEN Shaojie, LI Chonghui, ZHENG Yong* (916)
- Satellite Anomaly Detection Method Based on Parameter Adaptive Optimization Clustering *ZHAO Yuwei, SU Ju* (927)
- System Design of a Common Circuit Board of Ground Test Instrument for Payload Data Handling System *LI Xufeng, ZHOU Li, ZHU Yan, ZHAO Wenjie, HAO Cheng* (938)
- Hardware Acceleration of YOLOv5s Network Model Based on Aerospace-grade FPGA *JIANG Kangning, ZHOU Hai, BIAN Chunjiang, WANG Ling* (950)
- Simulation of Large-scale Magnetic Shielding Room for High-precision Vector Magnetometer Ground Test and Calibration System *LI Zhihong, WANG Jingdong, LÜ Shang, WAN Renxin* (963)