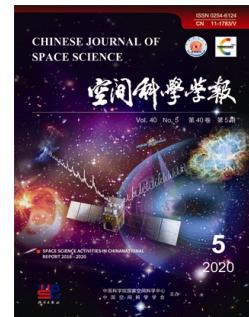


SPACE SCIENCE ACTIVITIES IN CHINA NATIONAL REPORT 2018–2020

2020 年 | 第 40 卷 | 第 5 期 September 2020 | Volume 40 | Issue 5



Contents

Science Research and Utilization Planning of China's Space Station in Operation Period 2022–2032	GU Yidong GAO Ming ZHAO Guangheng (609)
China's Lunar and Deep Space Exploration Program for the Next Decade (2020–2030)	XU Lin PEI Zhaoyu ZOU Yongliao WANG Chi (615)
Progress and Prospects of the Strategic Priority Program on Space Science.....	WANG Chi SUN Lilin FAN Quanlin LI Chao BAI Qingjiang (618)
Overview of the Latest Scientific Results of China's Lunar Exploration Program	CHEN Yuesong HAN Juanjuan FAN Yu ZOU Yongliao WANG Chi (626)
Progress of the Quantum Experiment Science Satellite (QUESS) Micius Project	PAN Jianwei (643)
SJ-10 Recoverable Satellite for Space Microgravity Experiments	HU Wenrui KANG Qi DUAN Enkui LONG Mian (648)
Progress Report on Insight-HXMT: China's First X-ray Astronomy Satellite	ZHANG Shuangnan (655)
Current Status and Main Scientific Results of In-flight CSES Mission.....	SHEN Xuhui ZEREN Zhima HUANG Jianping YANG Yanyan ZHAO Shufan YAN Rui ZHANG Zhenxia LIU Dapeng WANG Qiao CHU Wei LU Hengxin XU Song GUO Feng TAN Qiao LI Wenjing ZHOU Na SONG Fuxi (662)
Recent Advances in Research of the Chinese Meridian Project	WANG Chi CHEN Zhiqing XU Jiayao (679)
Taiji-1 Satellite Mission	LUO Ziren ZHANG Min WU Yueliang (691)
Development Progress of China's First Mars Exploration Mission: Its Scientific Objectives and Payloads	JIA Yingzhuo ZOU Yongliao ZHU Yan DU Qingguo FAN Yu CHEN Yuesong WANG Chi (693)
Progress on SVOM Satellite Development	WEI Jianyan (698)
Update on the ESA-CAS Joint Solar Wind Magnetosphere Ionosphere Link Explorer (SMILE) Mission	WANG Chi BRANDUARDI-RAYMONT Graziella (700)
Status of the Advanced Space-based Solar Observatory	GAN Weiqun (704)
Progress on CASEarth Satellite Development	GUO Huadong CHEN Hongyu CHEN Liangfu FU Bihong (707)
Introduction to Chinese Meridian Project–Phase II	WANG Chi Chen Zhiqing XU Jiayao (718)
International Meridian Circle Program	SHEN Xuhui LIU William WANG Chi WU Jian BLANC Michel YAN Yihua FU Suiyan YUE Xinan LEI Jiuhou GONG Wei ZHANG Shaodong ZHANG Qinghe WANG Xin YANG Jing ZHANG Xiaoxin GAO Jing XU Jiayao YANG Guotao LI Hui REN Liwen YANG Fang (723)

Space Solar Physics in China.....	GAN Weiqun (726)
China's Future Missions for Deep Space Exploration and Exoplanet Space Survey by 2030	JI Jianghui WANG Su (729)
Research Progress of Interplanetary Physics in Mainland China.....	ZHAO Xinhua SHEN Chenglong HE Jiansen NING Hao (732)
Magnetospheric Physics in China	CAO Jinbin YANG Junying (778)
Advances in the Researches of the Middle and Upper Atmosphere in China	CHEN Zeyu CHEN Hongbin XU Jiayao HUANG Kaiming XUE Xianghui HU Dingzhu CHEN Wen YANG Guotao TIAN Wenshou HU Yongyun XIA Yan (856)
Development of New Capabilities Using Machine Learning for Space Weather Prediction.....	LIU Siqing CHEN Yanhong LUO Bingxian CUI Yanmei ZHONG Qiuzhen WANG Jingjing YUAN Tianjiao HU Qinghua HUANG Xin CHEN Hong (875)
Update on Fengyun Meteorological Satellite Program and Development	ZHANG Peng CHEN Lin XIAN Di XU Zhe GUAN Min (884)
Ocean Observation from Haiyang Satellites	LIN Mingsen JIANG Xingwei (898)
Progress of Earth Observation in China.....	GUO Huadong LIANG Dong LIU Guang (908)
Progress of Space Medicine Research in China.....	DING Bai LIU Zhaoxia LÜ Ke LING Shukuan LIU Yue XU Zi LI Yinghui (920)
Space Life Science of China	MA Hong CHEN Yu REN Hao LI Xiaoqiong YANG Chunhua LI Bo HAN Chu ZHANG Ying LI Yujuan LONG Mian ZHUANG Fengyuan DENG Yulin (928)
Progress Update in Space Cell Mechano-biological Coupling.....	LONG Mian SUN Shujin LI Ning LÜ Dongyuan GAO Yuxin (935)
Progress of Research on Origins of Life in China	ZHAO Yufan HUA Yuejin ZHANG Hongyu HE Yujian ZHU Ting LIU Yan WU Li (937)
Space Materials Science in China: I. Experiment Studies under Microgravity	ZHANG Xingwang YIN Zhigang YU Jianding YUAN Zhangfu ZHAO Jiuzhou LUO Xinghong PAN Mingxiang (946)
Space Materials Science in China: II. Ground-based Researches and Academic Activities.....	PAN Mingxiang WANG Weihua FAN Shuqian ZHANG Qi PAN Xiuhong DENG Weijie HU Liang WEI Bingbo WANG Haipeng YIN Zhigang FANG Jinghong YU Jianding ZHANG Xingwang YUAN Zhangfu JIANG Hongxiang ZHAO Jiuzhou WANG Gong (950)
Space Debris Research Progress of China.....	LIU Jing JIANG Hai YANG Xu LI Fen ZHAO Nanying (956)
Progresses and Activities of the International Space Science Institute in Beijing (ISSI-BJ)	(962)