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RECENT PROGRESS OF CHINESE MICROGRAVITY MATERIALS SCIENCE RESEARCH AND
FUTURE MATERIAL SCIENCE RESEARCH PROJECTS OF CHINA SPACE STATION

Abstract

China Shenzhou series spacecraft and Tiangong1 and Tiangong 2 have carried out a series of material science research projects, including material space exposure experiments and material crystal growth experiments. Around 2020, the China Space Station will be launched, and the space materials science field will deploy at least three research facilities for microgravity materials research, including scientific laboratory cabinets for non-container materials, high-temperature materials laboratory cabinets and material exposure laboratory facilities. This article will briefly introduce the achievements of the previous Chinese microgravity material experiments and the material science experiments support capacity of the future space station. Summarize the future directions of materials science research that are worthwhile in space.