

Challenges of Life Support - Medical Support for Manned Space Exploration (9)
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PRESENT STATUS AND PROSPECT FOR CONTROLLED ECOLOGICAL LIFE SUPPORT TECHNIQUE

Abstract

Abstract: Constructing controlled ecological life support system is an important supporting condition for carrying out manned deep-space exploration and extraterrestrial inhabitation and development in the future. The controlled ecological life support technique has gone through a developmental process of more than sixty years, undergoing the course of from conceptual research, to single key technique and integrated key technique, and from ground-based simulated tests to spaceflight demonstrating test, and has gained many important stage harvests. In this paper, the present status, subsistent problems and next plans in the domain of CELSS techniques are introduced briefly, so as to play a referential role for promoting development of the techniques internationally.