

“Journey to Sustainable Development: 17 Encounters in Garbage Kingdom”, a Good Book to Read across Ages

By WANG Xiaoqiong

Abstract:

Responding to children's curiosity from their view is the key to the success of a popular science book for children. The book, beginning with “Adventures in Garbage Kingdom”, picks up 17 much concerned topics including excessive packaging and food waste in our daily life, energy crisis in ecological environment, the threat to biodiversity and even the problem of space junk. The book also covers some social topics which are widely discussed such as decent jobs, educational equity and stereotyped images. By asking questions, introducing the current situation, opening thinking and interactive development, the young readers are encouraged to think deeply about ecological environment and social topics.

Key words: sustainable development, garbage sorting, ecological environmental protection, Carbon Neutral

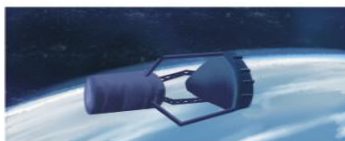
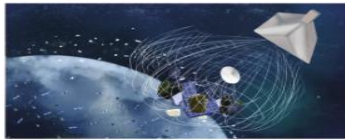
Reference

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清理太空垃圾的“奇思妙想”

太空碎片隐患巨大，很多国家都想出了一些奇妙的解决方案。然而这些方法都面临着技术、资金甚至法律上的难题。一个国家的力量仍然太过微小，需要各国间的协同合作来维持太空环境的安全。一些国际组织也开始制订“太空交规”。



太空“渔网”

2018年，由英国萨里大学牵头，在太空中成功测试了一种太空“渔网”。借助卫星在太空中射出一张大网，像捕鱼一样将太空垃圾收集起来，一起抛到大气层中烧毁。

太空清洁工

欧洲航天局计划在2025年发射一个“机械清洁工”。执行任务的航天器上会装有一套机械手臂，可以定位并抓取目标，并将目标带到大气层烧毁。

宇宙“千里眼”

美国空间监视网络能对运行在空间轨道上大于5厘米的空间碎片进行跟踪监测、特征探测和编录，甚至还预测轨道，并进行碰撞预警。根据监测信息，航天器就可以调整轨道位置，主动躲避太空垃圾。

“转化”和“脱轨”

多国航天机构要求对结束任务的航天器进行“转化”处理，如排空剩余燃料、对蓄电池和其他能量部件做失效处理等，避免发生爆炸。机构间空间碎片协调委员会（IADC）发布的指南也建议，航天器结束任务后，应使它们脱离轨道并返回大气层烧毁，或让它们进入“坟墓轨道”，减少碰撞的发生。

