

Special Issue

Off-Earth Mining and Minerals Engineering

Message from the Guest Editors

As humanity looks beyond Earth for resources and exploration, off-Earth mining and minerals engineering emerges as a critical frontier in science and industry. This Special Issue is dedicated to advancing the understanding, development, and implementation of technologies that will shape the future of extraterrestrial resource extraction. We welcome contributions that push the boundaries of current knowledge in areas such as in situ resource utilisation (ISRU), robotic excavation, regolith processing, space-based mineral characterisation, mission design, and sustainable mining systems for space environments. Submissions that bridge academic research with real-world industrial applications are especially encouraged to foster collaborations. In addition to contributions from traditional space and aerospace sectors, this Special Issue actively seeks the involvement of researchers from broader engineering and scientific domains—including those not typically engaged with off-Earth or space-focused research. We believe that cross-disciplinary insights are essential to solving the complex technical challenges involved in space resource utilisation.

Guest Editors

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Message from the Editor-in-Chief

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