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Special Issue Reprint

Space Telescopes & Payloads

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This Special Issue showcases the latest developments in Space Telescopes and Payloads with a collection of seventeen papers. Hamish Reid et al present the SPARK solar space mission concept. Daniel F. Ryan et al present LISSAN, a next generation γ -ray spectroscopic imaging instrument. Ariadna Calcines Rosario et al present the first integral field spectrograph for the Extreme-Ultraviolet, SISA, and a miniaturised solar magnetograph for space. Ellen L. Sirks et al present the data downloaded via parachute from a NASA Super-Pressure Balloon. Othman I. Younus et al present an overview of ALIGN, the Autonomous Laser Inter-Satellite Gigabit Network. Miguel Limón-González et al present on flight data for a LEO CubeSat. Chris Graham et al describe a steering mirror system with closed-loop feedback for free-space optical communication. David Orozco Suárez et al introduce CMAG. Lin Yang et al explain structural flexibility effect on spaceborn solar observation system's micro-vibration response. Ben Campbell et al describe a new approach to satellite constellation deployment. Illia Zymak et al contribute with a high resolution mass spectrometer. Rachel Dunwoody et al present the ground-based characterisation for γ -ray burst detection on a CubeSat. Cyril Bourgenot et al contribute with topology optimisation of a single-point diamond-turning fixture for a deployable primary mirror telescope. Shawn M. Usman et al introduce the Spitzer Resurrector Mission. Uxia Garcia-Luis et al optimise space telescopes' thermal performance and Guo-Cheng Xu et al present an on-board image enhancement technique for remote sensing payloads.



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