Special Issue

Space Optical Instrumentation

Message from the Guest Editors

With space launches becoming more accessible, space optical instrumentation is rapidly evolving. This Special Issue highlights recent advances across various applications, focusing on cutting-edge optical payloads, novel components (free-space or integrated), and systems enhancing Earth Observation and communication. Submissions are welcome on instruments targeting Earth, satellites, or deep-space. Topics include in-orbit systems, mission proposals, nanosatellite/CubeSat instrumentation, adaptive optics, deployable telescopes, and payloads like spectrometers, imagers, coronagraphs, magnetographs, polarimeters, rovers, and plasma/particle sensors. Contributions on current challenges and solutions are encouraged. Research on optical ground support, calibration, integration, and innovative components such as freeform optics, metalenses, diffraction gratings, atmospheric dispersion compensators, new materials, and diffractive optical elements is also of interest.

Guest Editors

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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