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Advances and Application of Optical Manipulation

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Message from the Guest Editors

Optical manipulation utilizes optical forces to handle mesoscopic objects with sizes ranging from the microscale to the nanoscale, as well as to provide tools to bridge the chasm between the macroscopic world and microscopic systems in disciplines including biology, physics, chemistry, aerography, etc.

This Special Issue aims at presenting original state-of-the-art research articles and reviews dealing with optical manipulation in a broad sense, with a special emphasis on its combination with structured light engineering. Research areas include, but are not limited to:

- Optical manipulation
- Nanophotonics
- Optical tweezers
- Structured light
- Nanostructures
- Biophotonics
- Holography
- Nonlinear and ultrafast optics
- Photon–electron–phonon interaction in nanostructures
- Semiconductor photonics and optoelectronics