

Special Issue

Laser Technologies and Nonlinear Optics in Surface Sciences

Message from the Guest Editors

We are inviting submissions to the Special Issue on Application of Surface Laser Technologies. Since the invention in 1960, laser technology plays a pivotal role in modern society, meanwhile, the rapid development of lasers has injected new vitality into the research of nonlinear optics. In recent decades, the continuously emerging optical materials, modulation technology, amplification technology, nonlinear frequency conversion technology, have greatly improved the power and coherence of lasers, compressed the time scale of laser pulses, and expanded the wavelength coverage. At present, laser and nonlinear optics technologies enable technological progress in several fields including quantum optics, manufacturing, space exploration, Lidar, optical signal processing. Furthermore, all of these technologies are nowadays providing fundamental analysis tools in high-end scientific research, such as optical frequency comb, microimaging, etc., in addition, have also gone into everyday consumer products, such as displays, sensors, etc.

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