



International Journal of Optics

Special Issue on

Ultrafast Lasers and Materials Photonics

CALL FOR PAPERS

Ultrafast lasers have attracted tremendous interest owing to their advantages in both scientific research and practical applications. The latest advancements in ultrafast lasers such as high-power lasers, fiber frequency comb sources, and fiber-processing techniques further broaden the scope of the applications in material research, transient phenomena study, and nanostructure design. Recently new materials (e.g., graphene, graphene oxide, topological insulator, black phosphorus, and other 2D materials) can be responsible for the generation of ultrashort pulses in fiber lasers, solid state lasers, and so forth, offering new opportunities to investigate new optical science in fiber lasers field.

In this special issue, we are interested in the articles that share the latest progress and achievements in the aspects of the ultrafast lasers, fiber lasers, and new materials photonics.

Potential topics include, but are not limited to:

- ▶ Advances in mode-locked lasers
- ▶ Novel methods in Q-switched lasers
- ▶ Random fiber lasers
- ▶ New materials photonics
- ▶ New materials as a mode locker or Q-switcher in the fiber lasers
- ▶ Integrations of new materials and traditional materials
- ▶ Nonlinear properties of 2D materials
- ▶ High-power lasers
- ▶ Supercontinuum sources
- ▶ Fiber frequency comb sources
- ▶ Fiber-processing techniques
- ▶ Fiber laser and applications
- ▶ Solid state laser and applications

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