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Short and Ultra-Short Laser Materials Processing – Advantages and Applications

Guest Editor:

Dr. Anton Rudenko

College of Optical Sciences, The
University of Arizona, Tucson, AZ
85721-0094, USA

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Message from the Guest Editor

Dear Colleagues,

Short and ultra-short lasers have been widely used as advanced tools for precise and efficient fabrication of micro/nanostructures with unique optical, thermo-mechanical, and chemical properties, surface microprocessing, and micromachining in transparent bulk materials.

- Nano-/microprocessing of solid materials by short and ultra-short lasers;
- Micromachining in transparent bulk materials;
- Laser-induced melting and ablation of solid targets;
- Laser-induced nanoparticle production and synthesis;
- Nano-/microstructuring of dielectric, semiconductor, and metallic surfaces;
- Optical, thermo-mechanical, and chemical properties of laser-processed materials;
- Theoretical and computational modeling of laser-induced modifications.



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Special Issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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