Special Issue

Laser Processing of Carbon Materials

Message from the Guest Editor

Significant differences in the thermophysical, optical, and electrical properties of various forms of carbon material and unique parameters of laser radiation allow performing a variety of types of laser modification of carbon materials to obtain new knowledge on light–matter interaction, for the creation of planar metamaterials and three-dimensional photonic crystals, for the direct writing of information using lasers, and for other various uses in photonics, optoelectronics, and microelectronics. We are interested in articles that study the laser processing of carbon materials. Potential topics include but are not limited to the following:

- New phenomena in interaction of laser radiation with carbon and nanocarbon materials;
- Femtosecond laser modification of diamond and other carbon and nanocarbon materials;
- Laser treatment, modification, and microstructuring of carbon and nanocarbon film structures.

Keywords: Laser modification, Laser treatment, Laser microstructuring, Femtosecond laser ablation, Carbon and nanocarbon material

Guest Editor

Prof. Dr. Gennady M. Mikheev

Udmurt Federal Research Center UB RAS, 426067 Izhevsk, Russia

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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