



Semiconductor Lasers and Their Biomedical Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Semiconductor lasers are the fastest growing class of lasers. They are widely applied for pumping of solid states and fiber lasers and actively used in medicine. The unique properties of these lasers make it possible to create new original laser and biomedical technologies. In some cases, the use of semiconductor lasers makes it possible for already known medical procedures to be more effective, safe, painless, simple, and cheap. Semiconductor lasers can be used for ablation and coagulation of hard and soft biological tissues during surgical treatment, optical diagnostics of tissues, tissue regeneration, tissue bonding, photodynamic therapy and diagnostics of various diseases, drug delivery, etc. With this Special Issue, we aim to provide a selection of original research articles, reviews, and perspectives reporting the latest advancements in the design of semiconductor lasers and their biomedical applications.

Prof. Dr. Andrey V. Belikov

Guest Editor





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Message from the Editor-in-Chief

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