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Optical Techniques for Biomedical Engineering

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Message from the Guest Editor

The Bioengineering journal is running a Special Issue titled “Optical Techniques for Biomedical Engineering”. Optical techniques are widely used for biomedical applications, including therapy, imaging, and sensing. With laser optics, biological tissue can be treated with high accuracy and few side effects. Optical imaging techniques such as fluorescence microscopy, multiphoton microscopy, harmonic microscopy, photoacoustic tomography, and optical coherence tomography are also implemented in various biological areas. Moreover, optical sensing has become a solution for measuring physiological parameters such as pulsation, hemoglobin concentration, flow velocity, and so on. This Special Issue aims to explore the research findings and technical developments in biophotonics, and papers on related applications in cells, animals, and human subjects are also encouraged. This Special Issue covers the following topics, including, but not limited to: Laser therapy; Optical coherence tomography; Microscopy; Diffuse and fluorescence tomography; NIR spectroscopy; Photoacoustic tomography; Multispectral imaging and sensing; Biosensors.



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Special Issue



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Message from the Editor-in-Chief

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