



## Advances in Ultra-compact Acoustics and Photoacoustics for Scientific and Clinical Innovation

Guest Editor:

**Dr. Jeeun Kang**

Department of Radiology, Johns  
Hopkins University, Baltimore,  
MD 21218, USA

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### Message from the Guest Editor

For the last decades, biomedical acoustics and photoacoustics have thrived, with compelling and promising progress ranging extensively from basic research to clinical translation, based on their versatile imaging configuration and spatiotemporal resolution, and minimal or total non-invasiveness. In particular, their efficient implementation has been presented along with advances in electronic engineering and signal processing algorithms to enable ultracompact/wearable/implantable system configurations. This trend now opens new pathways toward novel scientific and clinical investigations, necessitating a continuous or point-of-care monitoring with morphologic/functional contrast in biological subjects. The aim of this Special Issue is to present the state-of-art progress on such advances in system developments and their scientific and clinical applications.

Keywords:

- ultra-compact electronics
- biomedical imaging
- photoacoustic imaging
- ultrasound imaging
- preclinical and clinical validations
- signal processing





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**Prof. Dr. Anthony Guiseppi-Elie**

Department of Biomedical  
Engineering, Texas A&M  
University, College Station, TX  
77843, USA

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*Bioengineering* Editorial Office  
MDPI, Grosspeteranlage 5  
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