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Electrochemical and Luminescent Sensor Materials for Biological and Biomedical Applications

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Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

The landscape of biomedical and biological sensors is rapidly evolving, driven by the need for more precise clinical diagnostics and continuous monitoring systems. Recent advancements in sensor technology have been particularly transformative in the field of personalized diagnostics. Wearable patches, implants, and other portable analytical devices are now capable of measuring a wide array of analytes, including glucose, electrolytes, and hormones, in various biomatrices such as blood, sweat, and saliva. These innovations have spurred a vigorous search for new materials, including novel molecules, nanomaterials, biomaterials, and nanohybrid materials, which are essential for the development of the next generation of electrochemical and luminescent sensors. This Special Issue focusing on the latest advancements in electrochemical and luminescent sensor materials will feature a curated selection of communications, full papers, and mini reviews, providing a comprehensive overview of current research and development efforts in this field.

Guest Editors











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Message from the Editor-in-Chief

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