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Recent Advances in Photoelectrochemical Sensors

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Message from the Guest Editors

Dear Colleagues,

Photoelectrochemical (PEC) sensing is an analytical technique that combines the principles of photoelectrochemistry and traditional sensing methods to detect and quantify bio(chemical) substances. The method offers high sensitivity due to the unique setup consisting of two separate energy forms, that is, using light as the excitation source and electricity as the detection signal. Applications of PEC sensing are diverse, ranging from environmental monitoring and food safety to clinical diagnostics and biochemical analysis.

This Special Issue will cover the system, instruments, methods, and photoactive and bio-sensitive materials used to construct PEC sensors with various bio(chemical) sensing applications, such as investigations of living cells, organoids, or tissues, as well as detections of ions, bio(chemical) molecules, or metabolites.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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