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Smartphones for sensing

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Smartphones for sensing: Simple, portable analytical devices are entering our daily lives for personal care, clinical analysis, allergen detection in food, and environmental monitoring. Smartphones, as the most popular state-of-art mobile device, have remarkable potential for sensing applications. A growing set of physicochemical sensors have been embedded; these include accelerometer, microphone, camera, gyroscope, and GPS units to access and perform data analysis. In this review, we discuss recent work focusing on smartphone sensing including representative electromagnetic, audio frequency, optical, and electrochemical sensors. The development of these capabilities will lead to more compact, lightweight, cost-effective, flexible, and durable devices in terms of their performances.

Biography

Yu Bao is a Doctor and Associate Researcher in Engineering Laboratory for Modern Analytical Techniques, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China.

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