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Paper-Based Sensors and Microfluidic Devices

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Message from the Guest Editors

Two decades ago, paper-based devices were a niche research field, with few groups working mainly on point-of-care or low-cost applications and batteries. The golden days of paper-based electrophoresis and chromatography on paper were for many long forgotten. Now the literature is rich, with more than 1000 publications on the topic, and paper has become the main research theme for numerous scientific groups.

Classic examples of applications are nitrocellulose lateral flow assays similar to the pregnancy test and dipsticks derived from litmus paper. Apart from those, paper is used as part of high-tech microfluidic systems (e.g., as a passive pump), for prototyping, teaching, and for disposable sensors.

This Special Issue aims to provide a forum for the latest developments in the field, including but not limited to:

- Methods of cellulose modification;
- Integration of paper parts in sensor platforms fabricated from other materials;
- Paper microfluidic systems and MEMS;
- Paper-based sensors and biosensors;
- Paper-based devices as educational tools;
- Applications of the above systems.

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Message from the Editorial Board

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