

## Special Issue

# Recent Advances in Solid-State Nanopore Technologies

### Message from the Guest Editors

Nanopore technologies have emerged as a powerful tool for a wide range of research fields and various applications. Based on ionic current measurements flowing through a nanopore, these technologies are employed in fundamental studies evaluating the properties of nanoscale materials at the single molecule/particle level and unveiling nanofluidic phenomena. One of the reasons for the remarkable advancement stems from the recent development of fabrication methods that can manufacture nanoscale holes in solid-state materials which are tunable, scalable, and compatible with integrated electronic devices. Moreover, their combination with informatics in recent years has expanded the capability of signal analyses. With the promotion of these fundamental studies, applications such as biological molecule detection, molecular/ion filtration, and power generation are also developing rapidly. In this Special Issue, titled "Recent Advances in Solid-State Nanopore Technologies," we seek to showcase cutting-edge research papers, communications, and review papers presenting recent contributions in nanopore technologies.

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