

Sensors and Materials

Special Issue on Microfluidics and Related Nano/Microengineering for Medical and Chemical Applications

Call for Papers

The field of microfluidics is now regarded as one of the key sciences and technologies of miniaturization for cutting-edge microsystems. It has been widely developed in various industrial fields, demonstrating novel abilities for practical applications in medicine, biology, chemistry, and other engineering fields. The transition toward total analysis diagnostic microfluidic systems not only requires more multiplex functions for precise fluid handling based on each property of structural materials, but also opens up the way for fully automated point of care systems. It is essential to introduce advanced device and material technologies in these key devices. This special issue will focus on the state-of-the-art technologies using microchannels and related elements for chemical unit operations, related microfabrication, optical sensing devices, and electrochemical devices.

Scope:

- Nano/microengineering and materials for biomedical applications
- New unit operations and integrations for microfluidic platforms
- Detection, analysis, and diagnostics in microfluidics & nanofluidics, cells, organisms, and organs on a chip
- Diagnostics, drug testing & personalized medicine
- Nanobiology and nanomedicine
- Fundamentals in nano/microfluidics

Submission due date: May 31, 2021

Publication date (planned): Second half of 2021

Journal website: <https://myukk.org/>

Guest Editor: Prof. Yuichi Utsumi (University of Hyogo)

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(Attention)

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If you have any questions, please feel free to contact the editorial staff at the address below.

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