

## Special Issue

# Liquid–Solid Contact Electrification: Recent Studies and Applications

### Message from the Guest Editors

Significant progress has been made in the study of liquid–solid contact electrification, especially at the micro-/nanoscale. Liquid–solid contact electrification has wide applications in various fields, including microenergy harvesting, microfluidic technology, self-cleaning technologies, sensors, and biomedical applications. This Special Issue aims to publish papers on emerging important technologies in the field of liquid–solid contact electrification. Topics of interest include, but are not limited to, the following:

- Studies on the mechanisms of liquid–solid contact electrification;
- Precise control of microfluids in microfluidic applications;
- Development of nanogenerators for efficient energy conversion in energy harvesting, widely applied to microsensors and wearable devices;
- Use of liquid–solid contact electrification in self-cleaning technologies for surface contamination removal;
- Sensitive detection of environmental parameters in sensor and biomedical fields and its application in early disease diagnosis.

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### Guest Editors

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### Deadline for manuscript submissions

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## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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