

Special Issue

Microneedles for Transdermal Delivery and Diagnostic Applications

Message from the Guest Editor

We are pleased to invite you to contribute to the *Pharmaceutics* Special Issue entitled “**Microneedles for Transdermal Delivery and Diagnostic Applications**”. Microneedle technologies have rapidly evolved as promising platforms for minimally invasive transdermal delivery and biosensing. This Special Issue aims to highlight recent progress in microneedles’ potential in drug and vaccine delivery, diagnostics, and personalized medicine:

- Sustained, active, or sequential drug delivery systems;
- Microneedle platforms for interstitial fluid sampling and real-time diagnostics;
- Additive manufacturing and advanced microfabrication of microneedle systems;
- Integration of microneedles with wearable or electronic platforms;
- Delivery of biologics, nucleic acids, or cell-based therapeutics;
- Microneedles for dermatologic or localized treatment applications;
- Mechanical performance, modeling, and insertion behavior of microneedles;
- Translational, manufacturing, and regulatory aspects of microneedle technologies.

We look forward to receiving your valuable contributions to showcasing the most recent advances in this rapidly expanding field.

Guest Editor

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Message from the Editor-in-Chief

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