

Special Issue

Biomaterials for Skin Drug Delivery

Message from the Guest Editor

The skin is a highly accessible and protective organ, making it an attractive route for drug administration. However, its barrier function, particularly the outermost layer, the stratum corneum, poses significant challenges for effective transdermal and dermal drug delivery. In recent years, biomaterials have emerged as key enablers in overcoming these limitations, from hydrogels and nanocarriers to microneedles and bioresponsive systems. Advances in biomaterials are transforming the skin drug delivery field.

This Special Issue highlights recent progress in the design, development, and application of biomaterials for skin drug delivery. We welcome original research papers and reviews. Research areas may include, but are not limited to, the following: polymeric and lipid-based carriers, hydrogels, microneedles, nanomaterials, bioresponsive or stimuli-responsive systems, and biofabrication techniques. We also invite studies focusing on drug release kinetics, skin permeation enhancement, and safety evaluation, as well as applications in dermatological therapy, wound healing, inflammation, and infections.

Guest Editor

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