

Special Issue

Recent Advances in Polymeric Biomaterials for Wound Healing Applications

Message from the Guest Editor

This Special Issue, entitled "Polymeric Biomaterials for Wound Healing Applications," provides an in-depth exploration of the advancements, innovations, and applications of polymeric biomaterials in wound healing. Its objective is to discuss the development and utilization of various polymeric materials as scaffolds, dressings, or coatings to promote and enhance the wound healing process. First, the properties of polymeric biomaterials that make them suitable for wound healing applications are discussed, including biocompatibility, biodegradability, and their ability to provide mechanical support to the wound site. The recent advancements in the design and fabrication of polymeric biomaterials with controlled release capabilities are highlighted, which allow for the sustained delivery of bioactive molecules such as growth factors, antibiotics, and anti-inflammatory agents to enhance wound healing efficiency. The challenges and future perspectives in the field of polymeric biomaterials for wound healing are also explored, including strategies to overcome limitations such as immune response, infection control, and wound chronicity.

Guest Editor

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