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Advances in Materials and Designs for Power Supply Systems in Soft Electronics

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Message from the Guest Editors

Recent advances in materials chemistry and composite materials design establish the foundations for classes of electronics with physical form factors that bridge the gap between soft biological organisms and rigid microsystems technologies. Soft platforms of this type have broad utility in continuous clinical-grade monitoring of physiological status, potentially lowering the cost and increasing the efficacy of modern healthcare. In this context, the development of materials and device designs for power supply systems is critically important and represents a rapidly expanding focus point of research in the materials sciences. Reformulating conventional technologies into biocompatible platforms and co-integrating them into bioelectronic systems demand innovative materials chemistry and engineering approaches. This Special Issue will highlight the range of material choices and associated device architectures for power supply systems in soft electronics, including batteries and supercapacitors for storage and photovoltaic, piezoelectric, triboelectric, and thermoelectric devices for harvesting.



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Special Issue



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Message from the Editor-in-Chief

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