

Special Issue

Innovations in Batteries for Renewable Energy Storage in Remote Areas

Message from the Guest Editors

This Special Issue presents a comprehensive exploration of recent innovations in battery design, specifically tailored to the unique energy storage requirements of remote areas characterized by intermittent renewable sources. The primary focus of this Special Issue is to delve into the adaptability of batteries to the varying energy conditions inherent in sources such as solar and wind. Emphasis is placed on strategies and technologies aimed at enhancing the integration of batteries with other storage mechanisms, including supercapacitors, while ensuring their resilience and durability in the face of extreme weather conditions. This Special Issue also features a comprehensive review of monitoring technologies, complemented by insightful case studies that showcase successful energy storage implementations in diverse remote communities. By providing a holistic view of these advancements, this Special Issue aspires to be a pivotal resource for researchers, scientists, and engineers actively engaged in developing practical and sustainable energy solutions tailored to the unique challenges posed by remote environments.

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Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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