Special Issue

Battery Energy Storage Systems: Application in Power Electronics and Power Systems

Message from the Guest Editors

The ever-increasing demand of energy in different sectors has made different societies face a big challenge. The ever-increasing energy consumption has made it necessary to produce as much as possible. At the same time, the necessary tools for energy production are facing many problems. The output of some resources fluctuates a great deal in daily, monthly, and yearly periods. All at once, the amount of demand in renewable sources may also change on daily, monthly, and yearly bases. A battery is a portable energy source that converts chemical energy into electrical energy.

Battery energy storage systems (BESSs) are systems that have the ability to charge and discharge and act as a load during charging and as an energy producer during discharge. Battery energy storage systems have high efficiency and are centralized, and these systems are easy to install and have centralized applications. Therefore, this Special Issue aims to present manuscripts indicating the use of different kinds of batteries, such as VRLA, alkaline batteries, carbon zinc batteries, silver oxide batteries, and zinc air batteries as BESS in different power systems and power electronics.

Guest Editors

Dr. Noradin Ghadimi

Department of Industrial Engineering, Ankara Yıldırım Beyazıt University (AYBU), Ankara 06010, Turkey

Dr. Navid Razmjooy

Department of Industrial Engineering, Ankara Yıldırım Beyazıt University (AYBU), 06010 Ankara, Turkey

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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