# **Special Issue**

# Beyond the Lithium-Ion Battery Storage Technology

## Message from the Guest Editors

Lithium-ion (Li-ion) batteries are currently the most widespread battery technology on the market. However, their capital cost is still significant, possibilities of their energy density improvement is limited, and they create a certain environmental impact. These challenges can be addressed by looking into second life use, which shall improve the cost and their footprint per stored kWh. Alternatively, different materials and technologies can be used to enhance the energy storage characteristics. Battery chemistries such as Lithium-Sulfur or Sodium-Sulfur seem very promising in terms of improving energy density and of reducing the environmental impact. For very high power applications, new technologies such as Lithium-ion capacitors can significantly improve the performance of traditional Lithium-ion batteries. Thus, we would like to encourage you to submit to this Special Issue, entitled "Beyond the Lithium-Ion Battery Storage" Technology," manuscripts focusing on the following topics:

- Second life battery use
- Lithium-Sulfur batteries
- Sodium-Sulfur batteries
- Lithium-ion capacitors
- Novel energy storage technologies, beyond Li-ion batteries

### **Guest Editors**

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# Deadline for manuscript submissions

closed (15 July 2021)



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## Editor-in-Chief

#### Prof. Dr. Marc A. Rosen

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