# **Special Issue**

# Physical Properties of Sodium-Ion Battery Materials

### Message from the Guest Editor

The sodium-ion secondary battery is a promising, lowcost energy storage device. In order to create highperformance, safe devices, however, we should know much about the cathode and anode materials and clarify what happens in them during the charge and discharge processes. From a different perspective, the cathode and anode materials are a unique system in which we can electrochemically control the sodium concentration by an order of one. In such a system, the strong interaction between the host framework and the guest sodium ion causes a variety of phenomena, such as phase transition, phase separation, and so on. These phenomena are not only scientifically interesting, but also technologically significant to make a safe device. In this Special Issue, we focus on the physical properties of the cathode and anode materials.

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