

Preface

A sodium-ion battery (NIB, SIB, or Na-ion battery) is a rechargeable battery that uses sodium ions (Na^+) as charge carriers. In some cases, its working principle and cell construction are similar to those of lithium-ion battery (LIB) types, simply replacing lithium with sodium as the intercalating ion. Sodium belongs to the same group in the periodic table as lithium and thus has similar chemical properties. However, designs such as aqueous batteries are quite different from LIBs.ⁱ

In the present book, ten typical literatures about sodium-ion battery published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on sodium-ion battery. We hope this book can demonstrate advances in sodium-ion battery as well as give references to the researchers, students and other related people.

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ⁱ https://en.wikipedia.org/wiki/Sodium-ion_battery