



## Article

# Development of Cellulose Nanofiber—SnO<sub>2</sub> Supported Nanocomposite as Substrate Materials for High-Performance Lithium-Ion Batteries

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**Abstract:** The large volumetric expansion of conversion-type anode materials (CTAMs) based on transition-metal oxides is still a big challenge for lithium-ion batteries (LIBs). An obtained nanocomposite was established by tin oxide (SnO<sub>2</sub>) nanoparticles embedding in cellulose nanofiber (SnO<sub>2</sub>-CNF), and was developed in our research to take advantage of the tin oxide's high theoretical specific capacity and the cellulose nanofiber support structure to restrain the volume expansion of transition-metal oxides. The nanocomposite utilized as electrodes in lithium-ion batteries not only inhibited volume growth but also contributed to enhancing electrode electrochemical performance, resulting in the good capacity maintainability of the LIBs electrode during the cycling process. The SnO<sub>2</sub>-CNF nanocomposite electrode delivered a specific discharge capacity of 619 mAh g<sup>-1</sup> after 200 working cycles at the current rate of 100 mA g<sup>-1</sup>. Moreover, the coulombic efficiency remained above 99% after 200 cycles showing the good stability of the electrode, and promising potential for commercial activity of nanocomposites electrode.

**Keywords:** lithium-ion batteries; cellulose nanofiber; SnO<sub>2</sub>; tin oxides; nanocomposite; energy storage



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## 1. Introduction

The widespread success of lithium-ion batteries (LIBs) in areas such as electronic devices, electric vehicles, and power grids leads to increasing demand in the research and development of high-energy density and capacity electrode materials for next-generation LIBs. Among various candidates, transition-metal compounds based on the conversion reaction mechanism have attracted great interest because of their high theoretical specific capacities. Moreover, the conversion-type anode materials (CTAMs) based on the wide range of transition-metal oxides show great potential in expanding the material selection for high-performance LIBs [1–5]. Moreover, the natural forms of many CTAMs (e.g., Fe<sub>3</sub>O<sub>4</sub>, Fe<sub>2</sub>O<sub>3</sub>, FeS<sub>2</sub>, MnO<sub>2</sub>, and SnO<sub>2</sub>) can help to reduce production costs in comparison with that of alloying-type anode materials. In addition, the reaction potentials of CTAMs could be adjusted based on bond strength between transition-metal cations and the anionic species, and the following ensures better battery safety by avoiding the lithium dendrite formation problem. Due to their higher specificity and safety compared to intercalation-type materials, as well as lower manufacturing costs compared to alloying-type materials, CTAMs are more promising for next-generation LIBs [1,6,7].

Among various conversion-type anode materials, the low cost, environmental benignity, and high abundance of Tin (Sn), tin oxide (SnO<sub>2</sub>) is considered one of the most preferred candidates. In addition, Sn-based compounds (such as oxides) can alloy with Li<sup>+</sup> and undergo a conversion reaction, which exhibits higher electrochemical performance and capacity [8–15]. However, similar to other CTAMs, SnO<sub>2</sub> still faces significant challenges,

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