

ABSTRACT OF THE DISCLOSURE

This invention pertains to a high-stability, high-conductivity composite titanium-phosphorus oxide and a method for mass production thereof. The composite titanium-phosphorus oxide uses a second phase as stable phase, which can greatly improve the ion transport conductivity and chemical stability. A coating phase formed by water-soluble carbon-containing substance, which is added to the precursor mixing process and decomposed during a sintering process, can ensure high electronic conductivity. No additional carbon materials are required in the later electrode preparation process.

Figure 1 to accompany Abstract