



演 題 : **New Trends for Energy Storage Devices with
Nano-Composite Materials; Supercapacitor
Applications**

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共 催 : 日本化学会北海道支部

要 旨 :

Electrochemical capacitor is an electrochemical energy storage device utilizing the electric charges accumulated at the interface between the electrode and the electrolyte to form the electric double layer. It has been increasingly getting attention not only for the established applications as backup power to electronic equipments and mobile devices, but also for high power applications in pulsed lasers and electric vehicles. Advancement in energy-storage technologies can benefit from the shift from conventional to nanostructured electrodes. For electrochemical capacitors, focus has been on nanostructured carbon, nanotubes, and nanotemplates. In this presentation, titanium oxide and lithium titanium oxide/CNT composite used as working electrode in organic electrolyte will be presented for hybrid capacitor. This hybrid material has advantages of both the high rate capability and the high capacity.

連絡先 : 工学研究科物質化学専攻 幅崎 浩樹 (内線 : 6575)