

# 超级电容器电极材料研究

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**摘要:** 超级电容器是介于传统电容器和蓄电池之间的储能元件。介绍了超级电容器的性能优点、工作原理、应用前景, 并详细综述了碳素材料、过渡金属氧化物、导电聚合物 3 类超级电容器电极材料的研究进展。

**关键词:** 超级电容器; 双电层电容器; 法拉第准电容器; 电极材料

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## Researches on the electrode materials for supercapacitor

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**Abstract:** Supercapacitor was an energy storage component between conventional capacitors and rechargeable batteries. Work principle, performance and prospect of application of supercapacitor were introduced. The recent progress of carbon, transition metal oxides, conducting polymer electrode materials for supercapacitor was illustrated in detail.

**Key words:** supercapacitor; double-layer capacitor; Faradic pseudo capacitor; electrode materials

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