

Synthesis of carbon nanofibers and their composites with conducting olygoaniline for the electrode of electrochemical capacitors

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Carbon nanofibers (CNFs) with many exposed edges and their composites with conducting olygoaniline were investigated for the electrode materials of electrochemical capacitors. Ethynyl aniline linkage between the edges of KOH-activated CNFs and the olygoaniline chain ends, was effective for the preservation of enlarged mesopores by KOH activation. Composites of KOH-activated CNFs with conducting olygoaniline showed the elevated capacitance of the resultant half cell electrodes from about 23F/g to 149F/g compared with the CNFs only.