EXPLORATION OF NEXT-GENERATION CAPACITOR ELECTRODE MATERIALS

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Abstract: In modern times, the number of personal electronic devices is at an all-time high - from tablets and cell phones to fitness trackers to the seemingly infinite supply of "smart" devices. Most of these devices rely on the ability to store electric energy for later use. This demand has created a wave of research in the topic of next-generation energy storage techniques to accommodate higher capacities in ever smaller form factors. This research explores the performance of capacitors made with varying electrode materials applied in a variety of thicknesses all tested using the same electrode base material, electrolyte, spacer, and cyclic voltammetry test parameters.

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