

What is the difference between a capacitor and a SC?

The SCs can present charge storage in between 100 F and 1000 F as compared to the conventional capacitors rendering micro to milli-Farads range, each device possessing low ESR and high specific power. These devices offer superior low temperature performance as compared to the batteries and conventional capacitors.

What are the advantages of SC capacitors compared to conventional capacitors?

With the technological advancements of the electrolytes, current collector, large electrode specific surface area (SSA) and thin dielectric separators, the SCs are able to exhibit capacitance enhancement of 10,000 times as compared to the conventional capacitors.

How to achieve low cost and predominant charge storage capacity?

Therefore, in order to achieve low cost and predominant charge storage capacity, the focus should not only be limited to synthesis, fabrication and modification approaches, but also on enhancing the electrode-substrate compatibility, controlling the size, phase of the material, morphology, pore size and inorganic-organic hybridization strategy.

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