## **SOLAR** Pro.

## **Promotion of smart capacitors**

How smart supercapacitors are developed?

Various smart supercapacitors have been developed by designing the electrodes and electrolytes of the supercapacitors as well as simplifying the device configurations. This review summarizes the development of smart supercapacitors with self-healing, shape memory, electrochromism, and photodetection.

Are smart supercapacitors self-healing?

Recently, a variety of smart supercapacitors have been successfully designed and fabricated by developing novel functional component materials and device configurations. In this review, we will present the recent developments in smart supercapacitors with self-healing, shape memory, electrochromism, and photodetection functions (Figure 1).

Can supercapacitors be smart energy storage devices?

The achievement of smart supercapacitors usually depends on the design of their configurations. However, conventional supercapacitors are mainly designed in button cells or spiral-wound configuration, which are too bulky and heavy to serve as smart energy storage devices.

What are the advantages of smart supercapacitors?

The smart supercapacitors have many superior qualities like larger power density, larger energy density, fast charge and discharge, economical, no impurities to the surroundings, and long life cycle, , , , .

Do supercapacitors integrate with other functions?

The recent development in smart electronic devices has increased the demand for supercapacitors to integrate with other different functions. Recently, many research efforts have been made to fabricate smart components of supercapacitors and to construct them into novel device configurations.

What are smart-hybrid supercapacitors?

Smart-hybrid supercapacitors are found to have potential in developing superior energy devices (with increased specific capacitance, energy-storing capability, and high durability). Currently, electronic devices are inevitable in the digital world to be employed for multitasking toward betterment of life.

To meet the urgent smart capacitor requirements for our daily life, one has to consider cost-effective and scalable microfabrication techniques such as photolithography, ...

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Smart-hybrid supercapacitors are found to have potential in developing superior energy devices (with

increased specific capacitance, energy-storing capability, and high durability). Currently, ...

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