

# **Polyaniline supercapacitor price**





## Overview

---

Is polyaniline a good electrode material for supercapacitors?

Learn more. Polyaniline (PANI) has piqued the interest of nanotechnology researchers due to its potential as an electrode material for supercapacitors. Despite its ease of synthesis and ability to be doped with a wide range of materials, PANI's poor mechanical properties have limited its use in practical applications.

Can polyaniline be used as a supercapacitor?

This review adds value by highlighting challenges and opportunities associated with synthesizing and utilizing PANI-based composites, thereby guiding future research directions. Abstract Polyaniline (PANI) has piqued the interest of nanotechnology researchers due to its potential as an electrode material for supercapacitors.

Which electrolyte is better for polyaniline supercapacitor?

Although flexible cells usually suffer from lower mechanical stability, the electrochemical stability of polyaniline is better when utilizing solid electrolytes. For instance, the capacitance retention of polyaniline supercapacitor utilizing a Nafion electrolyte is over 65% after 10,000 cycles .

Is Pani a good electrode material for supercapacitor applications?

The subsequent segment delves into the versatile nature of PANI, discussing the unique properties that make it a leading contender for electrode materials for storing energy. The article then delves into the intricate world of PANI composites specifically designed for supercapacitor applications.



## Polyaniline supercapacitor price

---



### **Polyaniline Supercapacitor Price Trends Applications and ...**

SunContainer Innovations - Polyaniline (PANI) supercapacitors are revolutionizing energy storage with their unique blend of high conductivity, low production costs, and environmental stability. ...

### **Evaluative study on supercapacitance behavior of polyaniline**

Apr 1, 2023 · Fibrous polyaniline@manganese oxide nanocomposites as supercapacitor electrode materials and cathode catalysts for improved power production in microbial fuel cells



### [A critical examination of polyaniline and its composite ...](#)

Sep 1, 2024 · The presented article comprehensively explores the remarkable potential of polyaniline (PANI) and its composites in supercapacitor applications. This ...



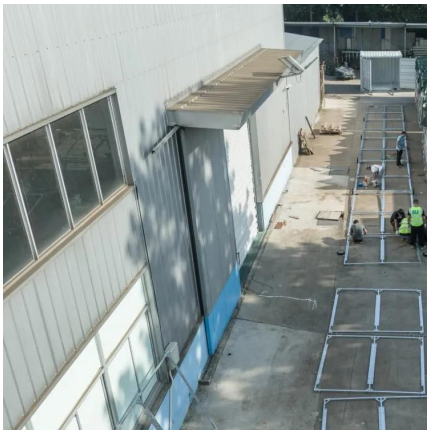
### **Recent Progress in Polyaniline and its Composites for Supercapacitors**

May 24, 2023 · Polyaniline (PANI) has attracted the attention of nanotechnology researchers and is commonly used in high-performance supercapacitors due to its low-cost, simple synthesis, ...



[Recent Progress in Polyaniline and its ...](#)

May 24, 2023 · Polyaniline (PANI) has attracted the attention of nanotechnology researchers and is commonly used in high-performance ...



[High surface area conducting polyaniline](#)

Oct 21, 2025 · High surface area conducting polyaniline; Synonyms: 3D cross-linked polyaniline, emeraldine salt, doped by phytic ...



[Recent advances in polyaniline-based micro ...](#)

Dec 16, 2022 · The rapid development of the Internet of Things (IoTs) and proliferation of wearable electronics have significantly stimulated the ...





### Recent progress in polyaniline composites for high capacity ...

Oct 1, 2021 · The supercapacitor is such an example of an energy storage device. The utilization of polyaniline (PANI) for energy storage application, either as a direct electroactive material or ...



### [Recent advances in polyaniline-based micro-supercapacitors](#)

Dec 16, 2022 · The rapid development of the Internet of Things (IoT) and proliferation of wearable electronics have significantly stimulated the pursuit of distributed power supply ...



### High areal capacitance and enhanced cycling stability of ...

Sep 1, 2022 · Reports on the use of pristine polyaniline (PANI) electrodes for supercapacitors are rare due to their low cycling stability. Here, we report the synthesis of pristine crystalline PANI ...



### [Synergistic design of gadolinium-doped polyaniline/MWCNT...](#)

4 days ago · A nanocomposite comprising gadolinium-doped polyaniline integrated with multiwalled carbon nanotubes was synthesized using an in-situ oxidative polymerization ...





### [Polyaniline-Based Materials for Supercapacitors](#)

May 31, 2024 · Polyaniline-Based Materials for Supercapacitors Abstract: Summary Because of the increasing rate of reduction of nonrenewable energy due to depletion of fossil fuel ...



### **Polyaniline**

Mar 20, 2024 · Polyaniline- (dinonylnaphthyl disulphonic acid) hydrogel showing enhanced supercapacitor and photo-current performance by in situ growth of AgNPs

### **Flexible supercapacitor constructed by talc reinforced polyaniline**

4 days ago · To address the limitations of low strength and short cycle life in polyaniline hydrogels, this study prepared a talc/conductive polyaniline composite hydrogel flexible ...



### [High-performance electrochemical supercapacitors based on](#)

Jul 14, 2023 · Polyaniline (PANI) and carbonaceous materials and metallic compounds have played a significant role in energy storage and conversion devices. PANI has demonstrated ...



[Recent advances in polyaniline-based micro ...](#)

Jan 11, 2023 · Conventional supercapacitors possess a typical sandwich configuration, in which the electrode layers and electrolyte layer are assembled in a laminated manner.72-75In the ...



**Synthesis of polyaniline nanomaterials for an effective supercapacitor**

Dec 11, 2024 · Abstract and Figures Polyaniline-based materials have been widely used for supercapacitors due to their outstanding properties, such as high specific capacitance, ...

[Polyaniline supercapacitors](#)

Apr 15, 2017 · Polyaniline (PANI) has been widely used for the energy storage applications either as a conducting agent or directly as an electroactive material due to the tunable ...



[Polyaniline price.buy Polyaniline](#)

Polyaniline is used in chemical vapor sensors, supercapacitors and biosensors. It is also useful for manufacture of electrical conducting yarns, antistatic coatings, electromagnetic shielding, ...



### [Synergetic Effect of Polyaniline and Graphene ...](#)

Jul 23, 2022 · The current development of clean and high efficiency energy sources such as solar or wind energy sources has to be supported by the ...



## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:  
<https://eiei.pl>

### Scan QR Code for More Information



<https://eiei.pl>