

The high energy density of lithium/carbon monofluoride system allows ...

Primary lithium batteries have been used for implantable devices such as cardiac pacemakers, drug pumps, neurostimulators and cardiac defibrillators. Secondary lithium ion batteries have ...

The development of tiny, soft and biocompatible batteries to power minimally invasive biomedical devices is of critical importance. Here the authors present a microscale ...

Here the authors present a microscale soft rechargeable lithium-ion battery based on the lipid-supported assembly of silk hydrogel droplets that enables a variety of ...

Implantable medical materials are increasingly important in the medical field due to illnesses and injuries caused by various accidents [1]. An increasing number of organs, ...

Due to the advantages of good safety, long cycle life, and large specific capacity,  $\text{LiFePO}_4$  is considered to be one of the most competitive materials in lithium-ion ...

The development of tiny, soft and biocompatible batteries to power minimally invasive biomedical devices is of critical importance. Here the authors present a microscale soft rechargeable lithium-ion battery based on ...

Researchers have developed a miniature soft lithium-ion battery that could be used as a defibrillator to control heart rhythm during surgery. ... soft batteries for use in a ...

Miniaturized, flexible lithium-ion droplet batteries offer a promising solution for powering implantable medical devices, providing reliable energy for a wide range of ...

Machine intelligence's ability to approximate correlation on high-dimensional parameter spaces can provide physical insight that accelerates materials discovery [1], [2], [3], ...

Lithium batteries have been successfully used in implantable biomedical devices for the last 30 years, and in some cases the use of lithium power sources has significantly ...

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In the present era, different allotropes of carbon have been discovered, and graphene is the one among them that has contributed to many breakthroughs in research. It has been considered a ...

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O) The first implanted pacemaker was powered by a rechargeable nickel-cadmium battery; P) battery mercury-zinc battery get involved in powering pacemaker in 1966; Q) nuclear battery prolonged the ...

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