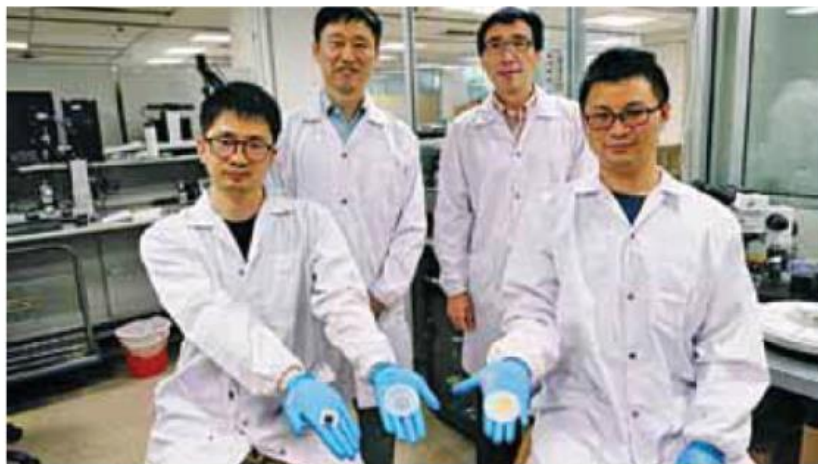




TECH NEWS

Flexible, paper-thin biodegradable printed batteries

Nanyang Technological University, Singapore scientists have developed paper-thin biodegradable zinc batteries



Batteries of the future could be paper-thin and biodegradable
(Credit: www.ntu.edu.sg)

that could one day become an environmentally sustainable option for powering flexible and wearable electronic systems. These zinc batteries are made up of electrodes screen-printed on to both sides of a piece of cellulose paper that has been reinforced with hydrogel. Once the battery has been expended, it can be buried in soil, where it breaks down completely within a month. The scientists think their printed battery could be integrated into flexible electronics, such as foldable smartphones or biomedical sensors, for health monitoring.