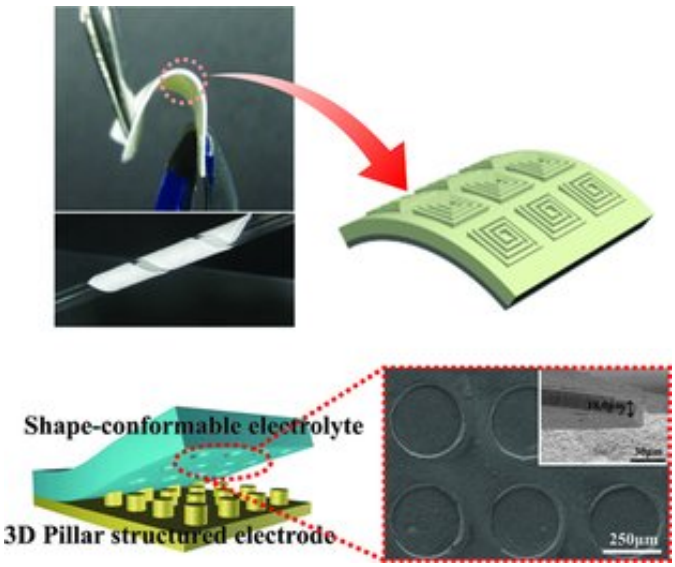
Korean scientists claim to to make a breakthrough in materials allowing the creation of flexible li-on batteries-- developments that might lead to the creation of flexible electronics and bendy mobile phones.



The bendable batteries use "fluid-like polymer electrolytes" instead of traditional liquid electrolytes poured into cases. According to the Korean Science Ministry fluid-like electrolytes are not only flexible but also more stable, reducing explosion risks.

Creating such batteries simply involves spreading fluid-like electrolytes on electrodes ("just like spreading jam on bread") and 30 seconds of exposure to UV rays.

The team will publish the findings in the Advanced Materials journal later this year.

Mobile phone makers have been toying with flexible devices and displays for a while now-- at CES 2013 Samsung revealed the "Youm" flexible OLED series , while the "Nokia Kinetic Device" made headlines back at Nokia World 2011.

Go Scientists Build First Bendable Battery (Korea Joongang Daily)