

Get a fever with new fabrics that generate electricity in the future

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Accordingly, the team led by Zhong Lin Wang, a professor at the Georgia Institute of Technology, successfully weaves a new fabric called **micro-woven fabric** .

This **microfiber** woven fabric incorporates **photoanodes** (they are solar cell particles made of light polymer fibers) and electric fiber nanogenerators (fibers that help fabric create small electric currents when the cloth moves.). The process of integrating the above technology will help the micro-fiber woven fabric create significant electric currents that are unlikely to be expected.

In addition to the above two types of beads & yarns, the micro-fiber woven fabric is essentially made of wool fabric, 320 micrometers thick, light weight, breathable .

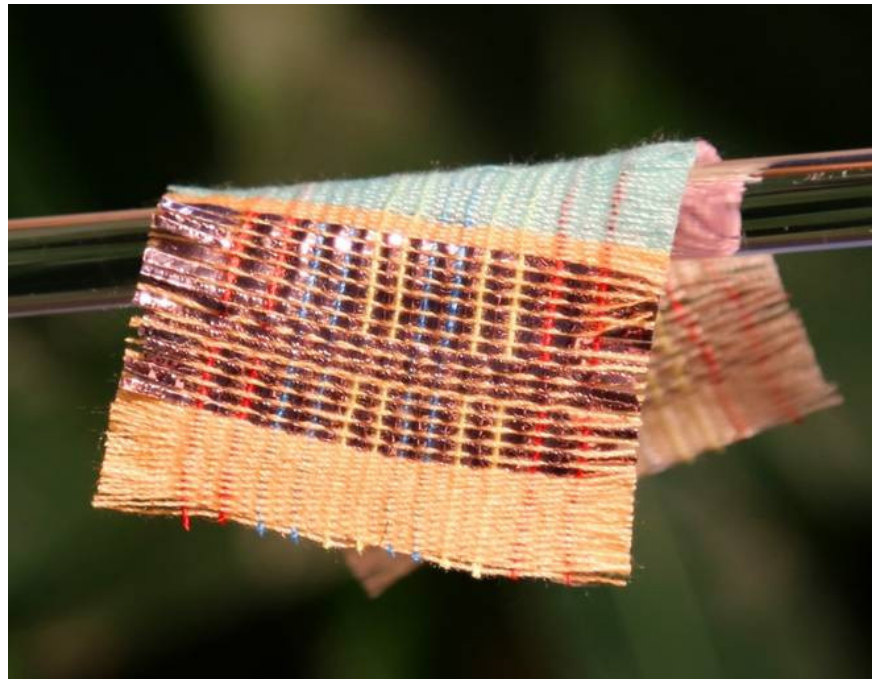


Photo source: Internet.

This microfiber woven cloth is wrapped around a circular charged stick, which can be thought of as a flag. Then, give both outdoor and windy outdoor areas and proceed to the experiment.

The results showed that when the wind, the cloth moved, causing the particles in the fabric to move and create a small charge. Not only that, this fabric also has the ability to absorb sunlight energy and convert into electricity. The entire electricity generated is estimated at 2V and stored on the electrode rod. The scientific team found that the amount of electricity generated by this fabric, woven with cable, could be enough to charge smart watches and smartphones .

Currently this is only the first step of successful testing, the team is continuing to experiment on durability as well as the ability to produce electricity of microfiber textile fabric and promises to be launched in the future.

Huynh Dung (Theo Treehugger)

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