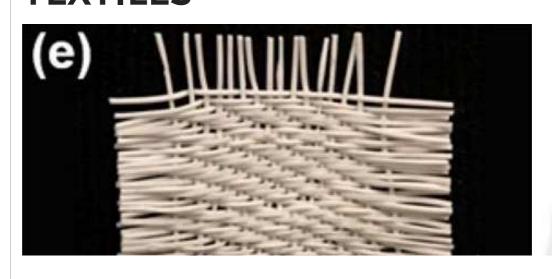


INNOVATION SMART MATERIALS

## KEEP YOUR COOL WITH 3D PRINTED NANOCOMPOSITE TEXTILES



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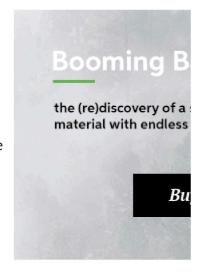
24 January 2018

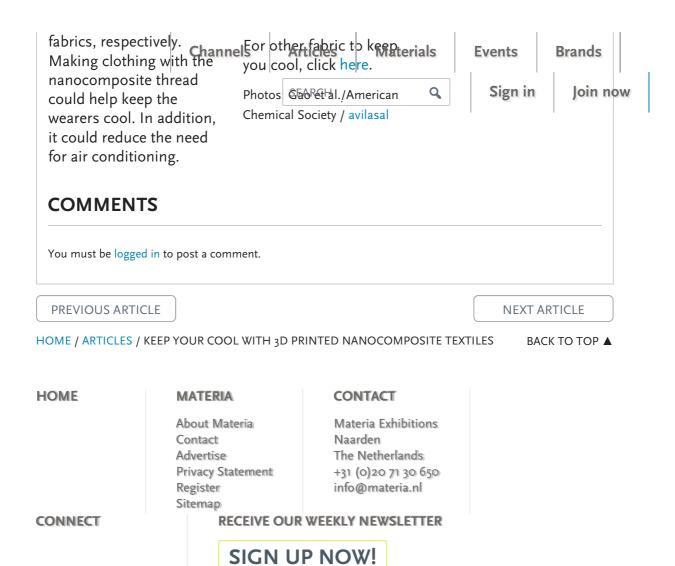
When it's hot, it's not always easy to cool off, especially if the situation doesn't allow you to sit in a cold bath all day. Airconditioning can bring some relief, but is no friend to the environment, or our wallets.

Researchers at the
University of Maryland
College Park are working
on a way to keep your
cool, while keeping your
clothes on! They
developed a new
nanocomposite material

## that can be 3D printed and woven into fabric!

The researchers combined a material called boron nitride, which transfers heat, and polyvinyl alcohol to create a nanocomposite fibre that can be 3D printed. When the material was woven into a fabric and tested on skin, it turned out that the composite was 1.5 to 2 times more efficient at moving heat away from the body compared to pure polyvinyl alcohol or cotton





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