



"The key advance made in our work is the enhancement of energy conversion efficiency to 20 percent," he said.

But Lin said further research is needed in order to determine how to manufacture clothing that could power small handheld electronics, such as a cell phone or an iPod.

"The power from the prototype fiber nanogenerator is too low to power electrical devices," Lin said. "One can assemble many nanofibers together to power electrical devices in the future, such as an electrical watch."

Chieh Chang, a UC Berkeley graduate in mechanical engineering and lead author of the study, said in an e-mail that researchers are looking into ways to improve the nanogenerators, such as

adjusting the composition of the material.

"There are a lot of aspects we are looking into to enhance the efficiency even more," Chang said in an e-mail.

In addition to developing more efficient materials, Chang said researchers are in the process of making the concept of electric clothing more feasible.

"Although it's not clear at this stage what kind of movement could generate the power needed for real applications in clothing, we expect a material to be produced within three years that is fully functional, flexible and wearable," he said in the e-mail.

Tags: UC BERKELEY DEPARTMENT OF MECHANICAL ENGINEERING

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