

# New invention: Light-printed paper, renewed by temperature and reuse 80 times

This is an important invention that contributes to preventing negative impacts on the environment of paper production.

Recently, Yadong Yin and his colleagues at the University of California have invented a new type of paper that can be printed with light, erasing the writing on it with high temperature even reusable 80 times. .

This is an important invention that contributes to preventing negative impacts on the environment of paper production. Currently, almost 1% of global carbon emissions are due to this process.



Yin has created a compound used to cover the surface of paper usually consisting of:

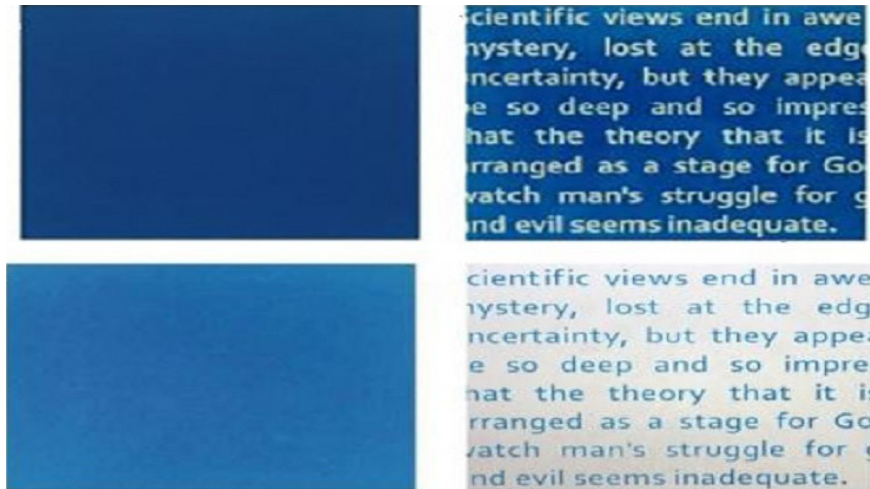
1. Nanoparticles are about a million times smaller than the thickness of a hair.
2. Blue Proteins and Titanium dioxide (TiO), they are often used in white wall paint.

When normal paper is covered on this mixture it turns dark blue. To print text, scientists use an engraved pattern and place on this special paper.

When the ultraviolet light is applied, the photons in the light penetrate the cutting holes in the mold and touch, causing TiO's electron particles to emit electromagnetic particles. These particles were retained by Prussian

Green nanoparticles to turn the Green Universal nanoparticles into colorless.

Some places were turned into colorless, some still kept blue forming prints. These words are clearly visible for at least 5 days before they fade and return to their original state.



Special paper of Yadong Yin and his colleagues.

The process of deleting unused ink can be accelerated to turn into new paper for 10 minutes at 120 degrees Celsius and can repeat this more than 80 times.

Materials that create a special mixture to cover paper are made of popular and inexpensive chemical ingredients so this special light printing paper can become a reality.

Currently, scientists are working on developing a type of printer that can print all colors on regular paper sizes.

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