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# Superhydrophilic surface modification of fabric via coating with nano-TiO<sub>2</sub> by UV and alkaline treatment

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## Highlights

We report a rapid, environmentally friendly, and highly efficient method for PET fabric surface modification. By coating of nan-TiO<sub>2</sub>, H<sub>2</sub>O<sub>2</sub> and alkaline treatment, the modified PET fabric became superhydrophilic and the water contact angles were decreased to 0° for only 30–40 minutes UV irradiation. The excellent mechanical and physical properties of PET fabric were retained after modification.

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