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Rapid etching of carbon fiber induced by noble metal nanoparticles

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Abstract

Mesoporous carbon fiber cloth has been developed via a rapid noble metal nanoparticles induced thermal etching. The specific surface area was increased while the electrochemical performance has been also improved. It has been found that the metal nanoparticles induced thermal etching can hardly break the C-sp² honeycomb structure but would be towards the boundaries and. The noble metal induced etching would be a novel approach to modify the surface and defects.

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