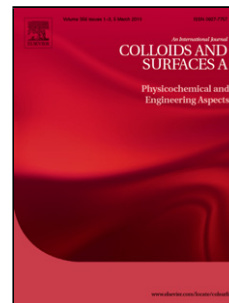


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**Facile Design of Superhydrophobic and Superoleophilic Copper Mesh
Assisted by Candle Soot for Oil Water Separation**

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Graphical Abstract

By facile modification with candle soot on the copper mesh, the candle assisted Cu-Cu-C superhydrophobic and superoleophilic film is prepared on copper mesh, and acts a tool to separate oil-water mixtures effectively and quickly. The process is short time consuming and low cost without any organic reagent and complicated chemical reaction.

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