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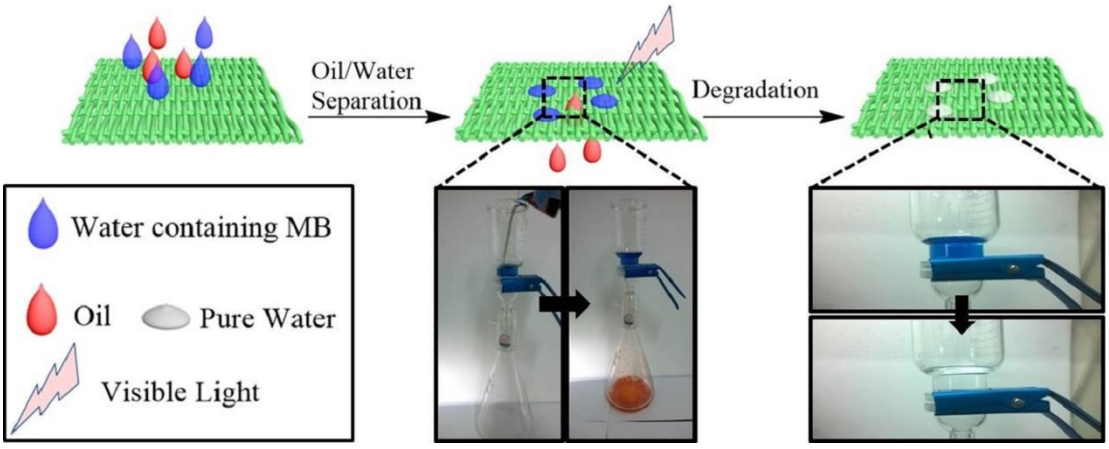
Graphical abstract



A dual-layer copper mesh consists of a superhydrophobic Ag-coated mesh and a photocatalytic GO/AgBr-coated mesh was fabricated for water purification via separation of insoluble oil from water and successively photodegradation of soluble organic dyes.

Highlights