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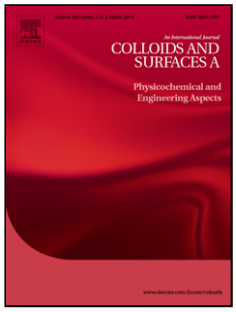

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In-situ preparation and properties of gold nanoparticles embedded polypyrrole composite

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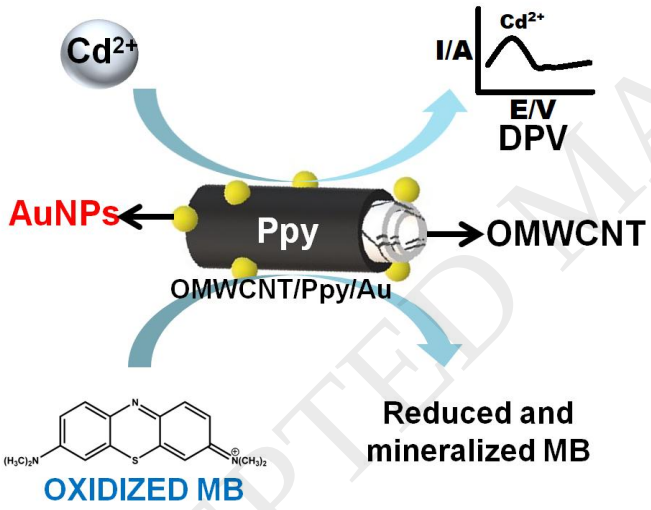
Graphical abstract



Abstract

A composite was formed by polypyrrole (Ppy), gold nanoparticles (AuNPs) and multi-walled carbon nanotubes (MWCNT) using chloroauric acid ($HAuCl_4$). MWCNT were carboxy functionalized by oxidation resulting into oxidized MWCNT (OMWCNT). The composite was characterized spectroscopically, structurally and morphologically by Fourier transform infrared (FT-IR) spectroscopy, Ultraviolet-visible (UV-Vis) spectroscopy, X-ray photoelectron

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