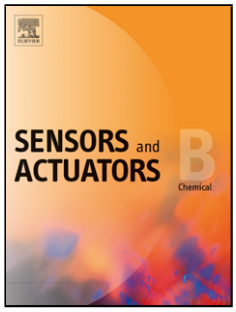

Title: Ultrasensitive Electrochemical Cancer Cells Sensor Based on Trimetallic Dendritic Au@PtPd Nanoparticles for Signal Amplification on Lab-on-Paper Device

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Highlights

A trimetallic dendritic Au@PdPt NPs, possessed peroxidase-like activity, was fabricated by a simple method for signal amplification.

Folic acid attached to the surface of dendritic Au@PtPd NPs by click chemistry could selectively recognize the folate receptor of cell surface.

A sandwich sensor was designed and implemented on Lab-on-paper device for point-of-care testing.