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### ACCEPTED MANUSCRIPT

# Localized surface plasmon resonance based U —shaped optical fiber probe for the detection of $Pb^{2+}$ in aqueous medium

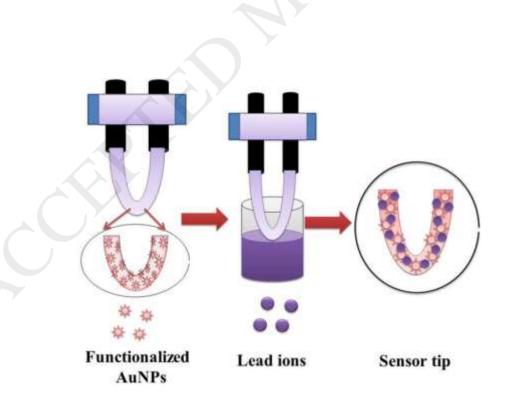
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#### **Graphical abstract**



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