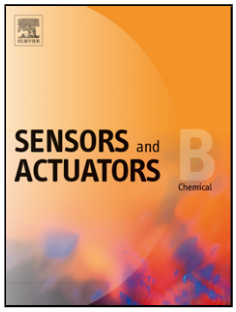

Title: Rapid detection methodology for inorganic mercury (Hg^{2+}) in seafood samples using conjugated polymer (1,4-bis-(8-(4-phenylthiazole-2-thiol)-octyloxy)-benzene) (PPT) by colorimetric and fluorescence spectroscopy

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Highlights

1) PPT as a selective and sensitive optical sensor for detection of Hg^{2+} was constructed.

2) PPT displays fluorescence "turnoff/turn-on" characteristics responses to I^- and Hg^{2+}.

3) Rapid and visual detection for Hg^{2+} in seafood was established.

4) The sensing characteristics of the PPT and detection performance were fully studied.