

## New sensing platform of poly(ester-urethane) urea doped with gold nanoparticles for rapid detection of mercury ions in fish tissue

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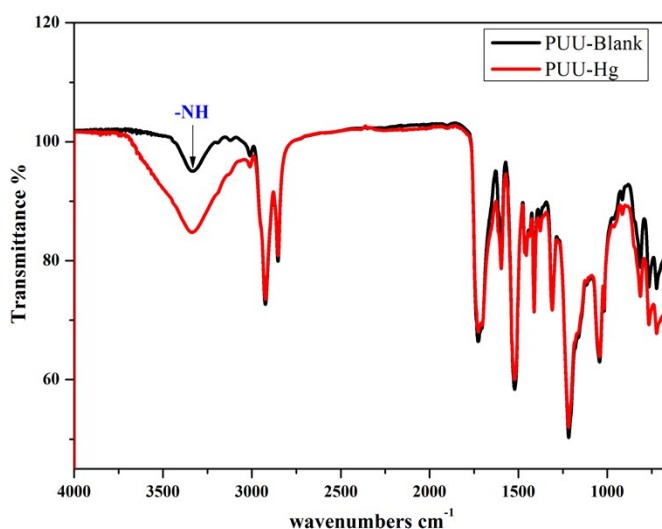
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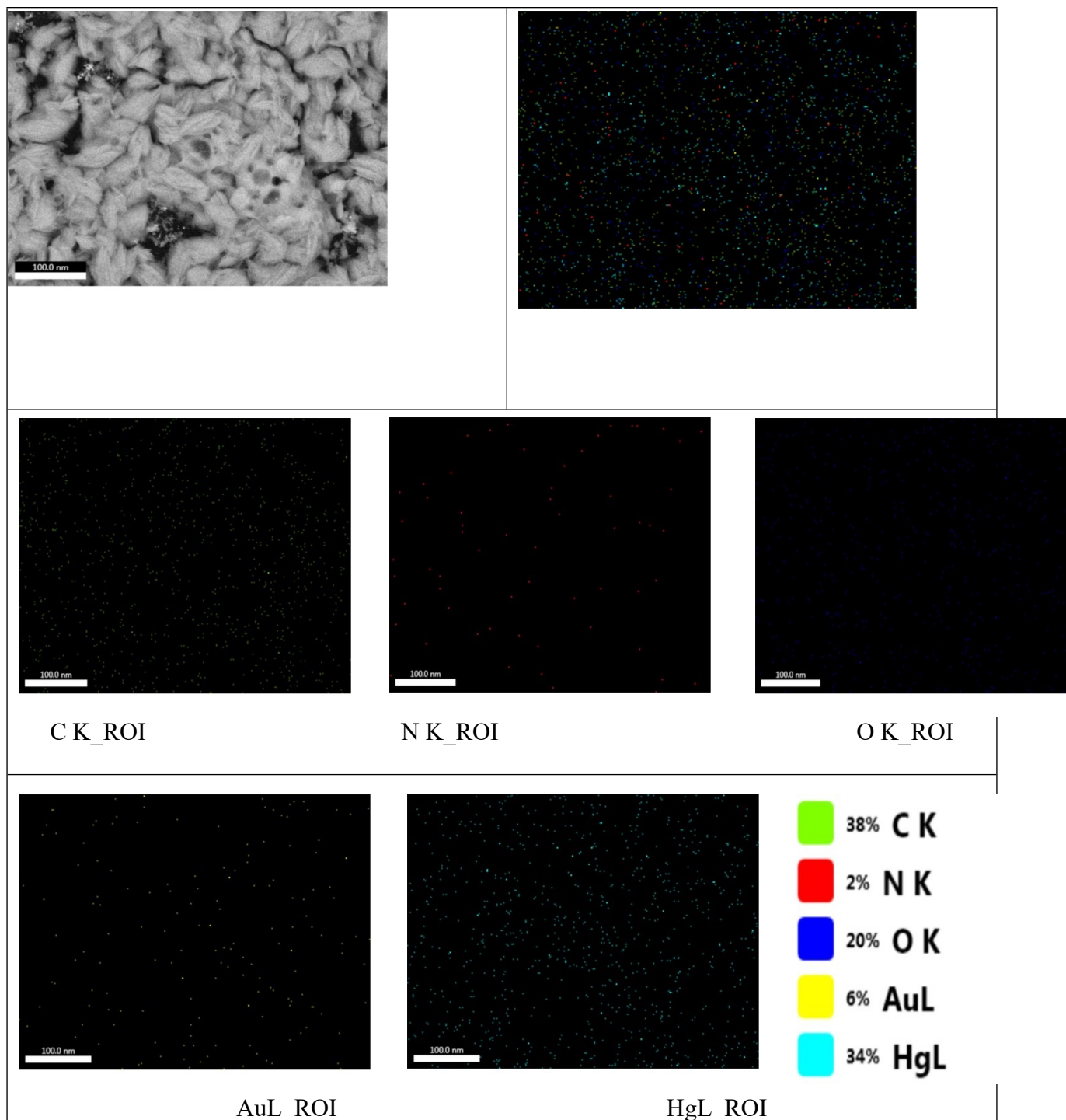
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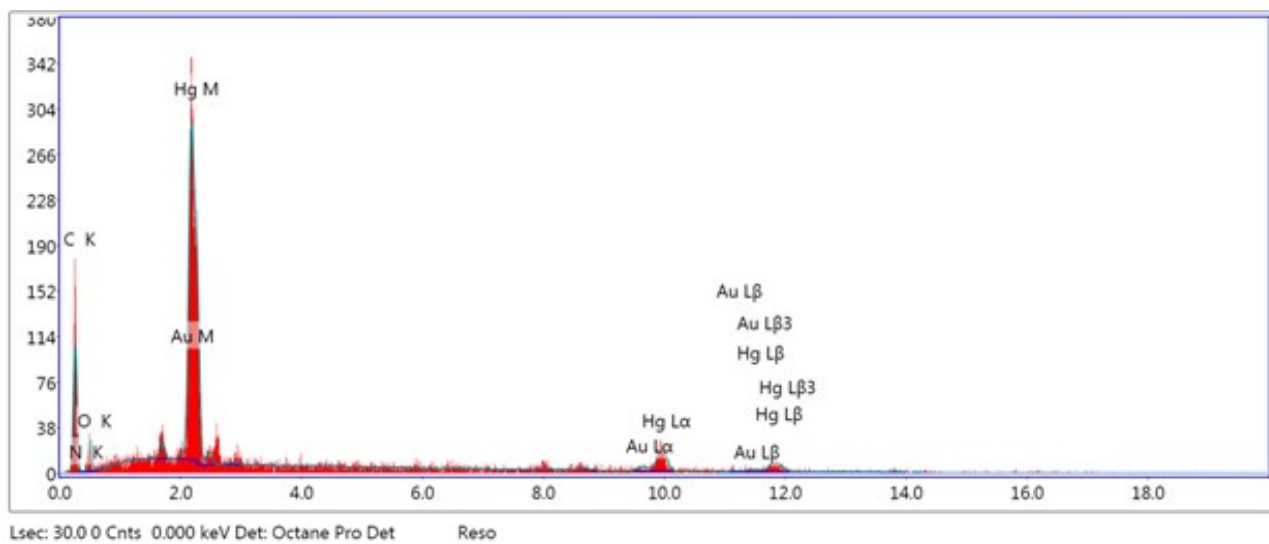
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**Figure-S1:** FTIR spectra of PUU (black) before and after (red) interaction with mercury ion



**Figure-S2A:** SEM-EDS mapping images of (Hg, Au, C, N, and O)



**Figure-S2B:** EDX spectra of (Hg, Au, C, N, and O)