Enhanced photoelectrochemical biosensing performance for Au nanoparticle-polyaniline-TiO$_2$ heterojunction composites

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Fig. S1. Optimization of deposition time. The photocurrent was measured before and after polyaniline deposition, and 5 min was selected as the optimum deposition time.
Fig. S2. Optimization of illumination time. The photocurrents before and after the deposition of Au NPs were measured, and 5 min was selected as the optimum illumination time.
Fig. S3. Full XPS spectrum of Au-PANI-TiONTAs with Ti 2p, O 1s, C 1s, N 1s, Au 4d, and Au 4f peaks.
Table S1. Recovery study for determining glucose in human serum.

<table>
<thead>
<tr>
<th>$C_{\text{added}}$ (mM)</th>
<th>$C_{\text{found}}$ (mM)</th>
<th>Recovery (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.93</td>
<td>3.78</td>
<td>96.18</td>
</tr>
<tr>
<td>11.19</td>
<td>10.99</td>
<td>98.21</td>
</tr>
<tr>
<td>11.87</td>
<td>11.92</td>
<td>100.42</td>
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