

**Synthesis of a hybrid material based on a high-surface area magnetic
 $\text{Fe}_3\text{O}_4@\text{TiO}_2$ core-shell structure and immobilized Ni-PNP aliphatic pincer
complex: study of the structural, magnetic, and antibacterial properties and
nonenzymatic electrochemical sensing of glucose**

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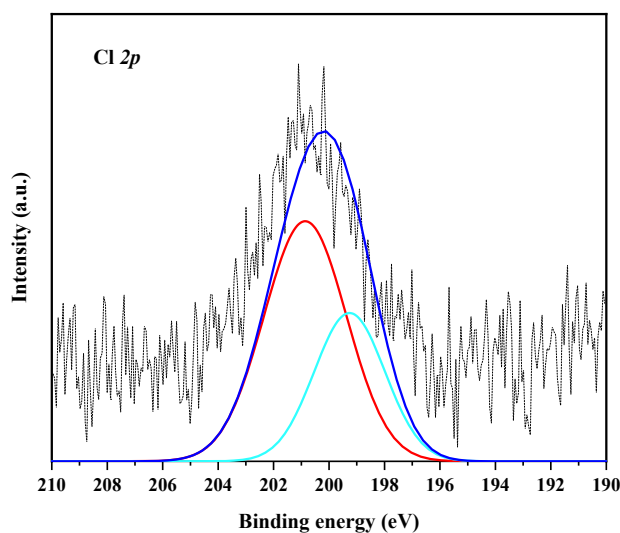


Figure S1 High-resolution XPS spectrum of Cl 2*p*.

Table S1 Consistency criteria obtained for all four materials from application of BET equation

	Fe₃O₄	Fe₃O₄@TiO₂	Fe₃O₄@TiO₂- RCl	Fe₃O₄@TiO₂- R@NiPNP
<i>P/P_o</i> range	0.126–0.277	0.127–0.277	0.097–0.251	0.072–0.226
<i>C</i>	40.311	21.385	45.746	42.153
<i>V_m</i> (cm ³ /g)	85.84	28.13	84.48	71.53
$\frac{1}{\sqrt{C} + 1}$	0.136	0.178	0.129	0.133
<i>P/P₀</i> (<i>V_m</i>)	0.138	0.177	0.128	0.133
<i>a</i> BET (m ² /g)	330	110	320	270
<i>R</i>	0.9998	0.9999	0.9999	0.9998