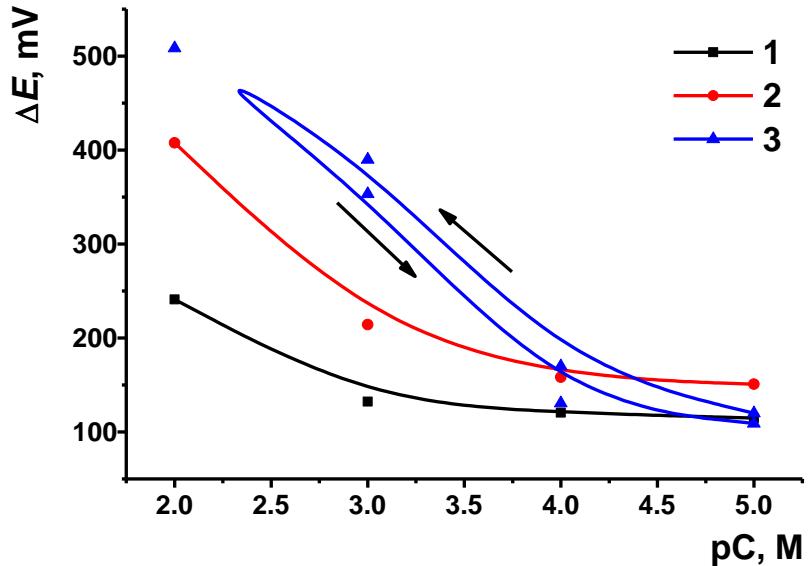
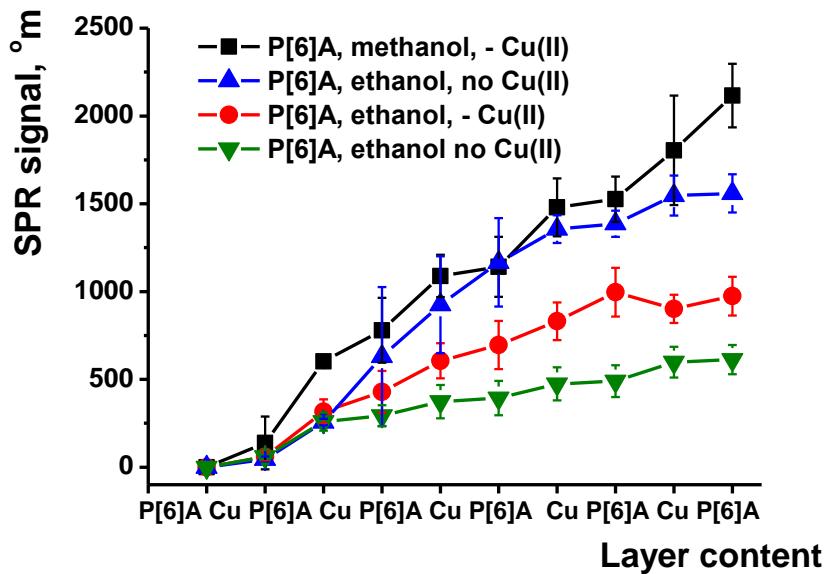


**Supplementary Materials**  
**to the article of Michail Sorvin, Guzeliya Galimzyanova, Vladimir Evtugyn,  
 Alexey Ivanov, Dmitry Shurpik, Ivan Stoikov, Gennady Evtugyn  
 "Potentiometric Sensor Based on Layered Pillar[6]arene - Copper Composite"**



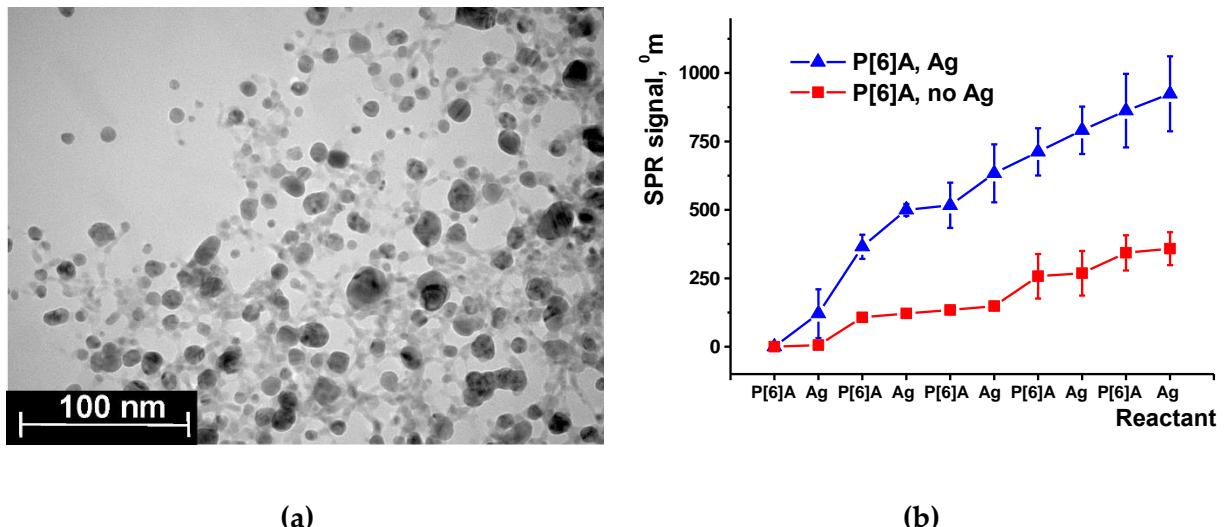
**Figure S1.** The dependence of the sensor signal on the concentration of  $\text{FeCl}_3$  recorded with the GCE covered with polyaniline and 1.0 mM P[6]A. 1 – P[6]A aliquot 4  $\mu\text{L}$ , Britton-Robinson buffer, pH = 4.5; 2 - polyaniline with no P[6]A, Britton-Robinson buffer, pH = 4.5; 3 - P[6]A aliquot 4  $\mu\text{L}$ , 0.1 M NaCl. Arrows indicate the direction of the concentration change



**Figure S2.** The dependence of the SPR signal on the addition of 1.0 mM P[6]A in ethanol and methanol and 1.0 mM  $\text{CuCl}_2$  in deionized water, SPR chip modified with the MUC, PSS and PAA. Average  $\pm$  s.d. for three replications

**Table S1.** Concentrations of CuCl<sub>2</sub> solution used for dynamic response assessment (legend to Figure 3(b))

Aliquot Number	Total CuCl <sub>2</sub> concentration, M	Aliquot Number	Total CuCl <sub>2</sub> concentration, M
1	1×10 <sup>-7</sup>	9	5×10 <sup>-5</sup>
2	2×10 <sup>-7</sup>	10	2×10 <sup>-4</sup>
3	5×10 <sup>-7</sup>	11	5×10 <sup>-4</sup>
4	1×10 <sup>-6</sup>	12	1×10 <sup>-4</sup>
5	2×10 <sup>-6</sup>	13	1×10 <sup>-3</sup>
6	5×10 <sup>-6</sup>	14	2×10 <sup>-3</sup>
7	1×10 <sup>-5</sup>	15	5×10 <sup>-3</sup>
8	2×10 <sup>-5</sup>	16	1×10 <sup>-2</sup>



**Figure S3.** (a) TEM image of the P[6]A – Ag<sup>+</sup> mixture, formvar/carbon supported copper grids 200 mesh (b) The dependence of the SPR signal on the addition of 1.0 mM P[6]A in ethanol and 1.0 mM AgNO<sub>3</sub> in deionized water, SPR chip modified with the MUC, PSS and PDDA. Average ± s.d. for three replications