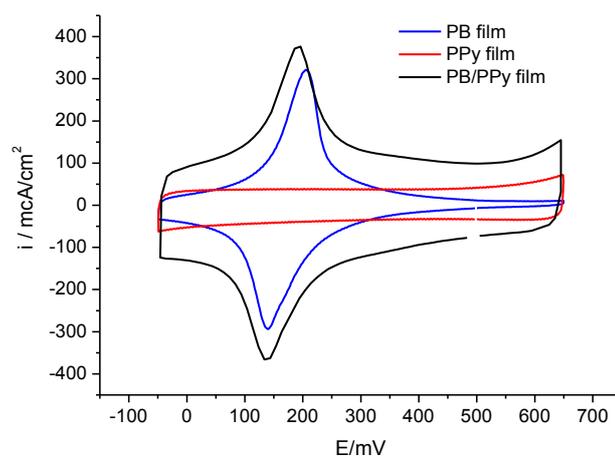
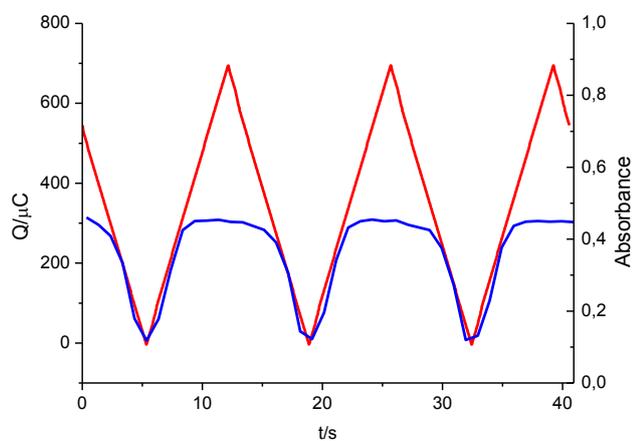


## Nanostructured Prussian Blue–polypyrrole composite coatings with electrochromic properties

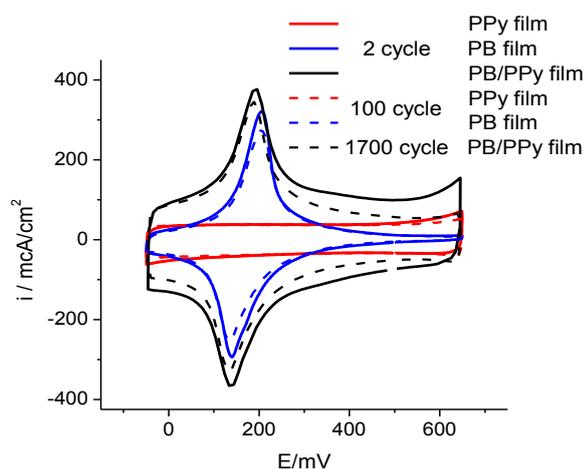
Natalia V. Talagaeva, Ekaterina V. Zolotukhina, Polina A. Pisareva  
and Mikhail A. Vorotyntsev



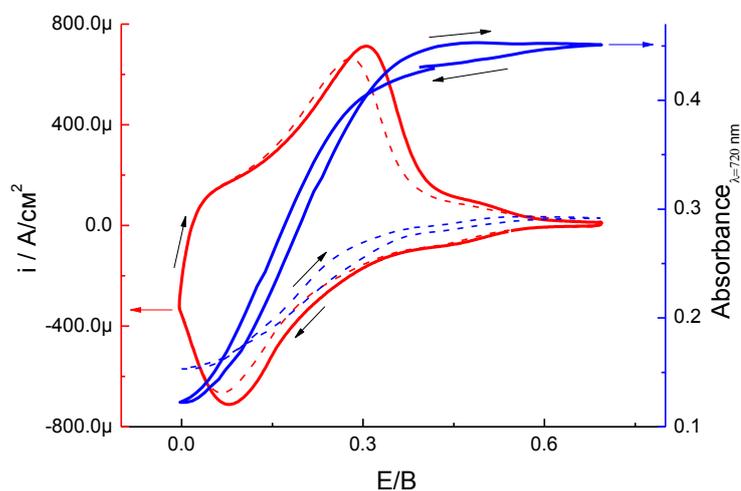
**Figure S1** Redox response of pure PB (blue), PPy (red) and PB/PPy (black) films synthesized on ITO-glass electrode surface from solution with **1:1:10** component ratio in the case of composite film and from solutions of individual components in the same concentrations in the case of pure PB or PPy.



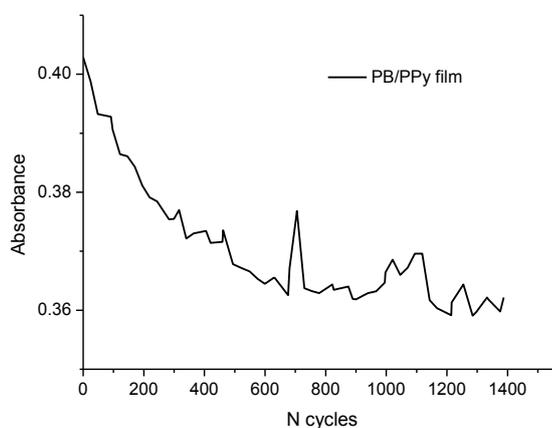
**Figure S2** Changes of redox charge (red line) and absorbance (blue line) of PB/PPy composite film during spectroelectrochemical measurements.



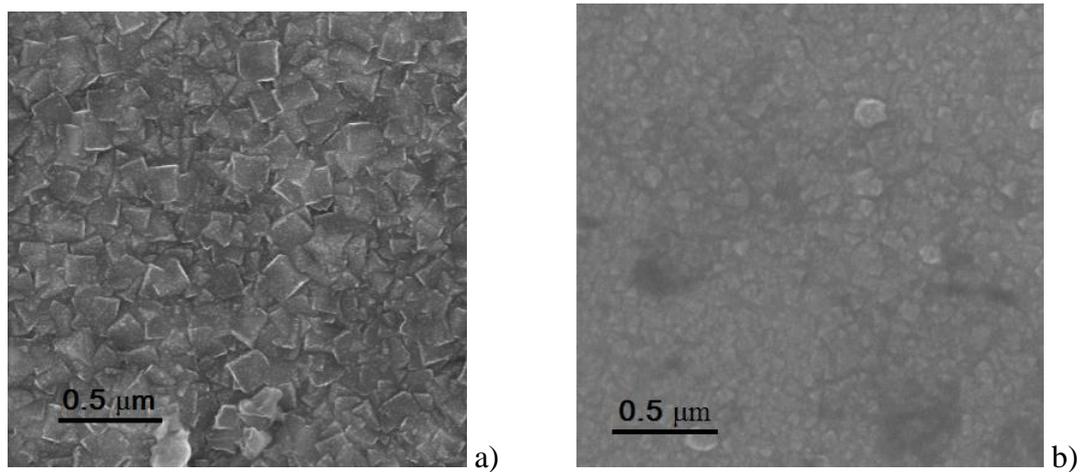
**Figure S3** CV-curves obtained during spectroelectrochemical measurements for pure PB (blue lines), pure PPy (red lines) and PB/PPy composite (black lines) films. Solid lines - initial state (Fig.1), dashed lines - after several CV-cycles of films (see legend)



**Figure S4** CV-polarization curves (red lines) and synchronic absorbance changes (blue lines) for PB/PPy composite film (synthetic ratio 1:1:10) during spectroelectrochemical colour/redox transformation stability tests. Solid lines - initial state; dashed lines - after 25% degradation.



**Figure S5** Absorbance changes (at 720 nm) for PB/PPy film by potential +0.500 V during colour/redox transformation stability tests.



**Figure S6** SEM images of PB/PPy composite films formed in 1:1:10 synthetic solution (a) and in 1:1:2 (b).