

SUPPORTING INFORMATION

Langmuir Monolayers and Thin Films of Amphifilic Thiacalix[4]arenes. Properties and Matrix for the Immobilization of Cytochrome *c*.

*Svetlana E. Solovieva**[†], *Roman A. Safiullin*[†], *Evgeni N. Kochetkov*[‡], *Nina B. Melnikova*[‡], *Marsil K. Kadirov*[†], *Elena V. Popova*[†], *Igor S. Antipin*[§], *Alexander I. Konovalov*[§]

[†]A.E. Arbuzov Institute of Organic and Physical Chemistry, Russian Academy of Sciences, Arbuzov st.

8, Kazan 420088, Russia.

[‡]Nizhny Novgorod State Medical Academy, Minin sq. 10/1, Nizhny Novgorod 603600, Russia.

[§]Kazan Federal University, Kremlevskaya, st. 18, Kazan 420008, Russia.

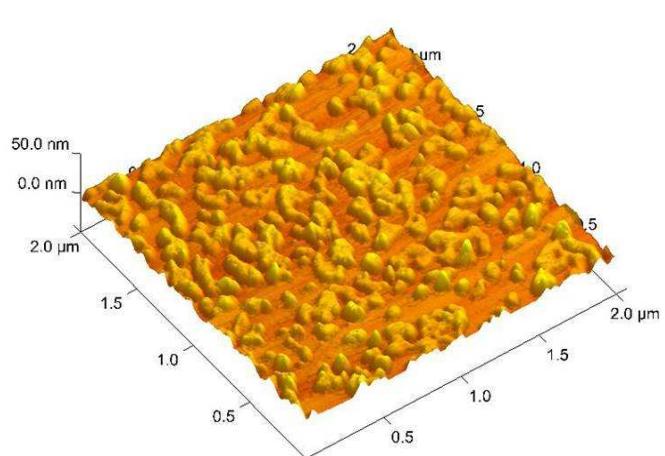
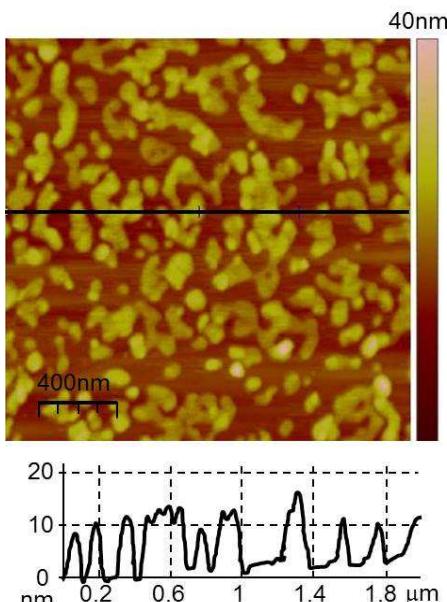
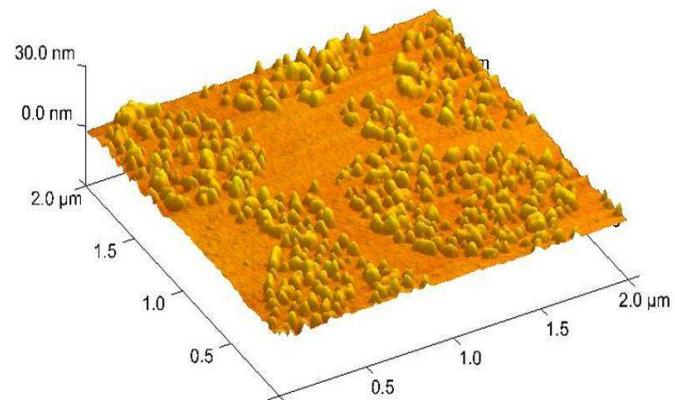
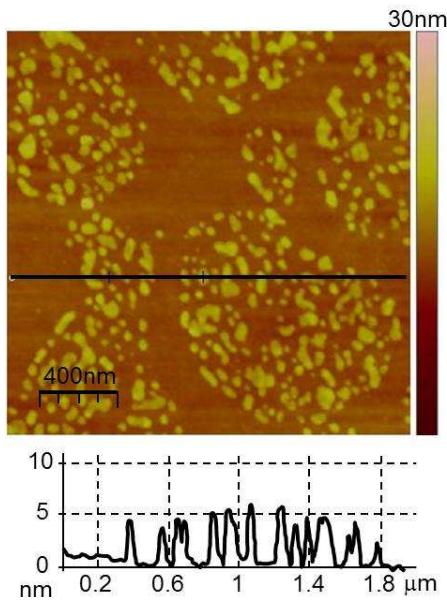


Figure S1. AFM image of one (a, b) and three (c, d) monolayers of TCA **1** transferred on quartz substrate: a) and c) cross section of the surface; b) and d) 3D image of the surface.

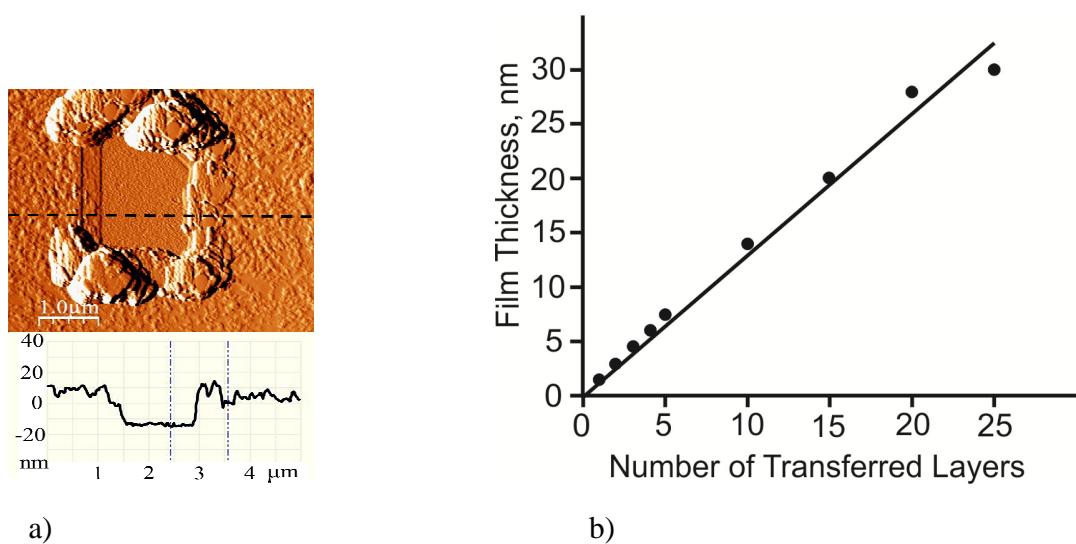


Figure S2. a) AFM image of the surface of 10 monolayers of **1** on ITO after nanolithography and the cross section profile of the surface; b) The dependence between film thickness and number of **1**-based monolayers transferred on ITO substrate.

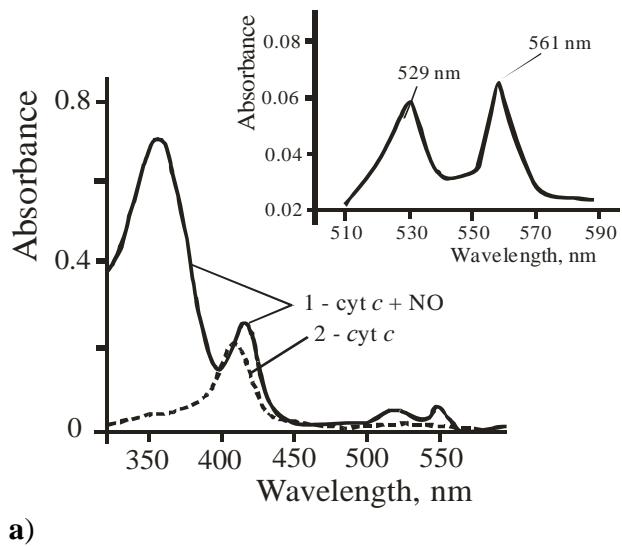


Figure S3. UV–Vis spectra of: **1**-based film after short contact with gaseous nitrogen monoxide (curve 1); cyt *c* (oxidizing form) in water (curve 2). Insert shows a visible part of cyt *c* spectrum after NO treatment.

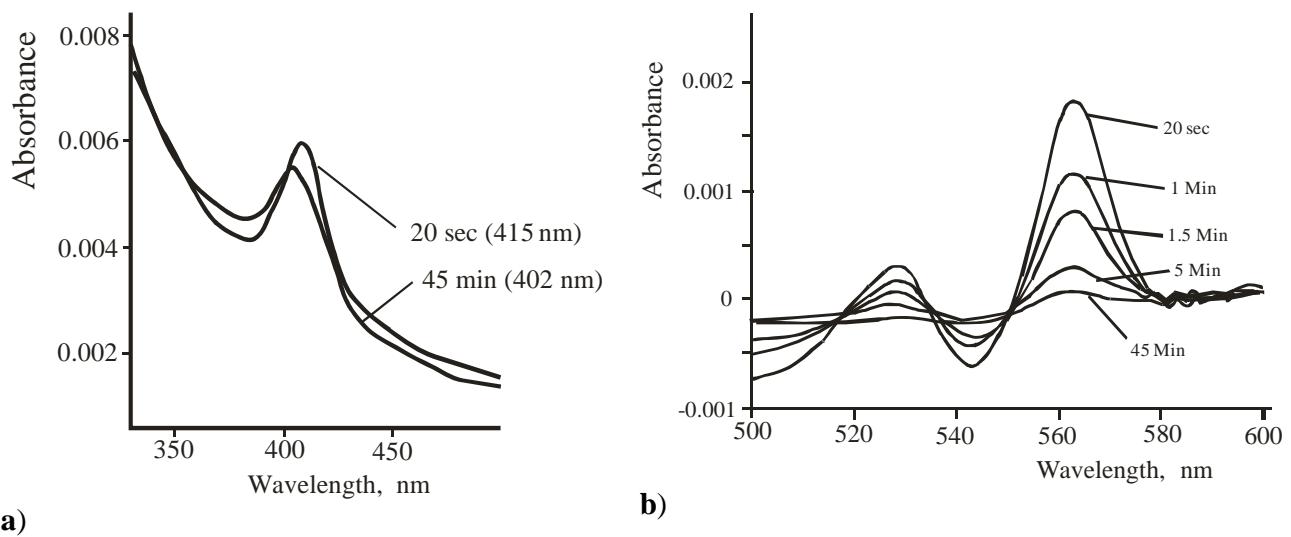


Figure S4. Time dependence of the spectrum of cyt *c* immobilized into 24 TCA **1** monolayers on quartz after NO treatment: **a)** in the range 350 - 450 nm; **b)** in the range 500 - 600 nm.

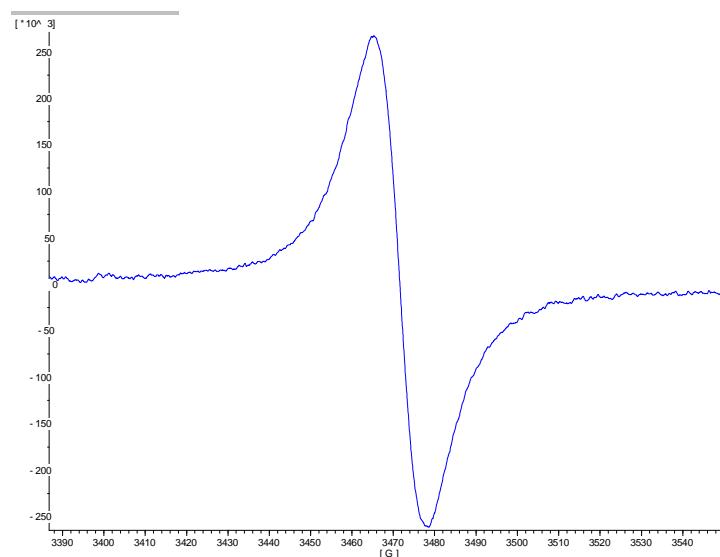


Figure S5. ESR detection of the products of the NO reaction with cyt *c* immobilized into 24 TCA **1** monolayers on quartz after NO treatment at 77K.