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## ***Supplementary Material***

### **Porous silicon coated with calixarene carboxylic acid derivatives: Effects on luminescence quenching selectivity**

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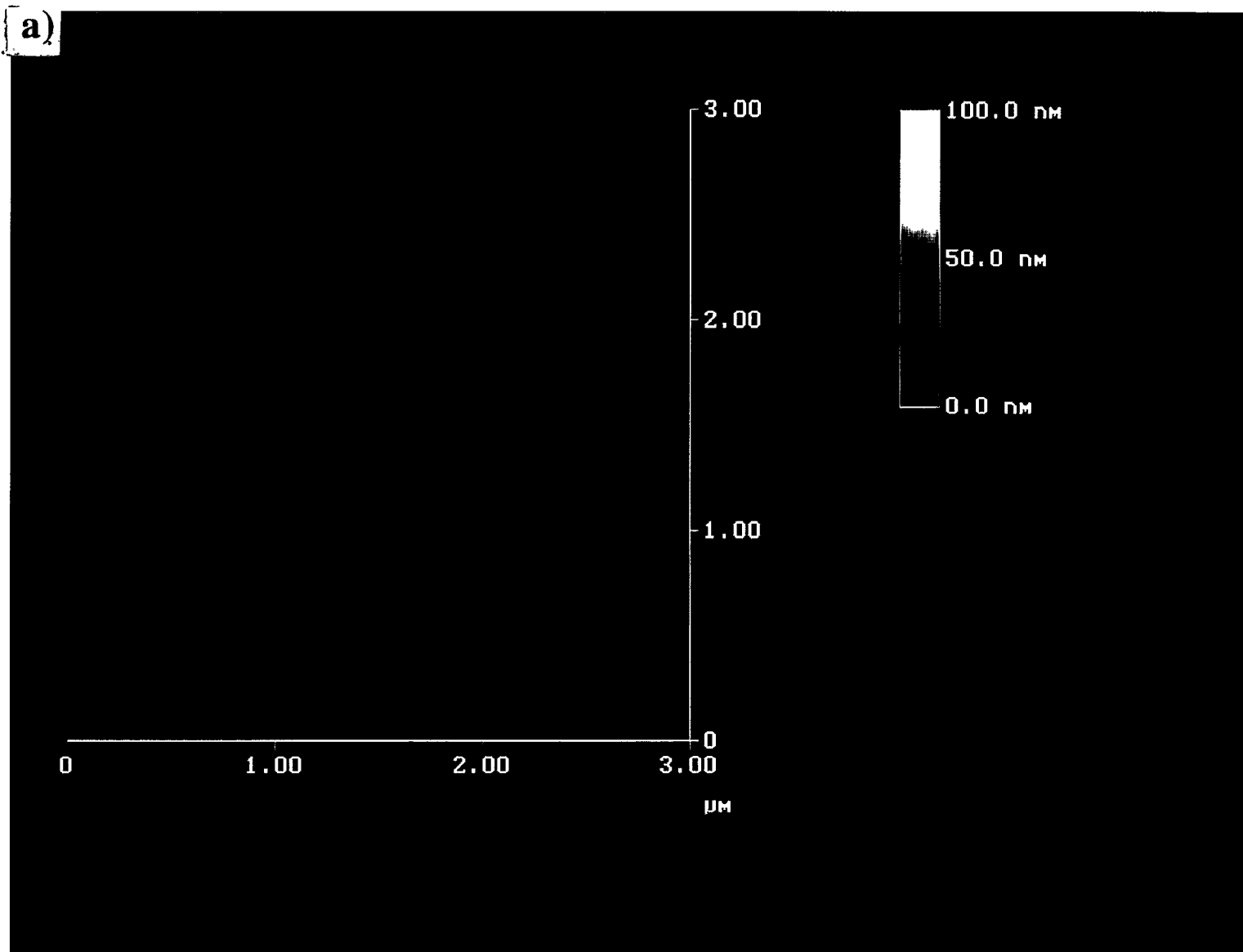
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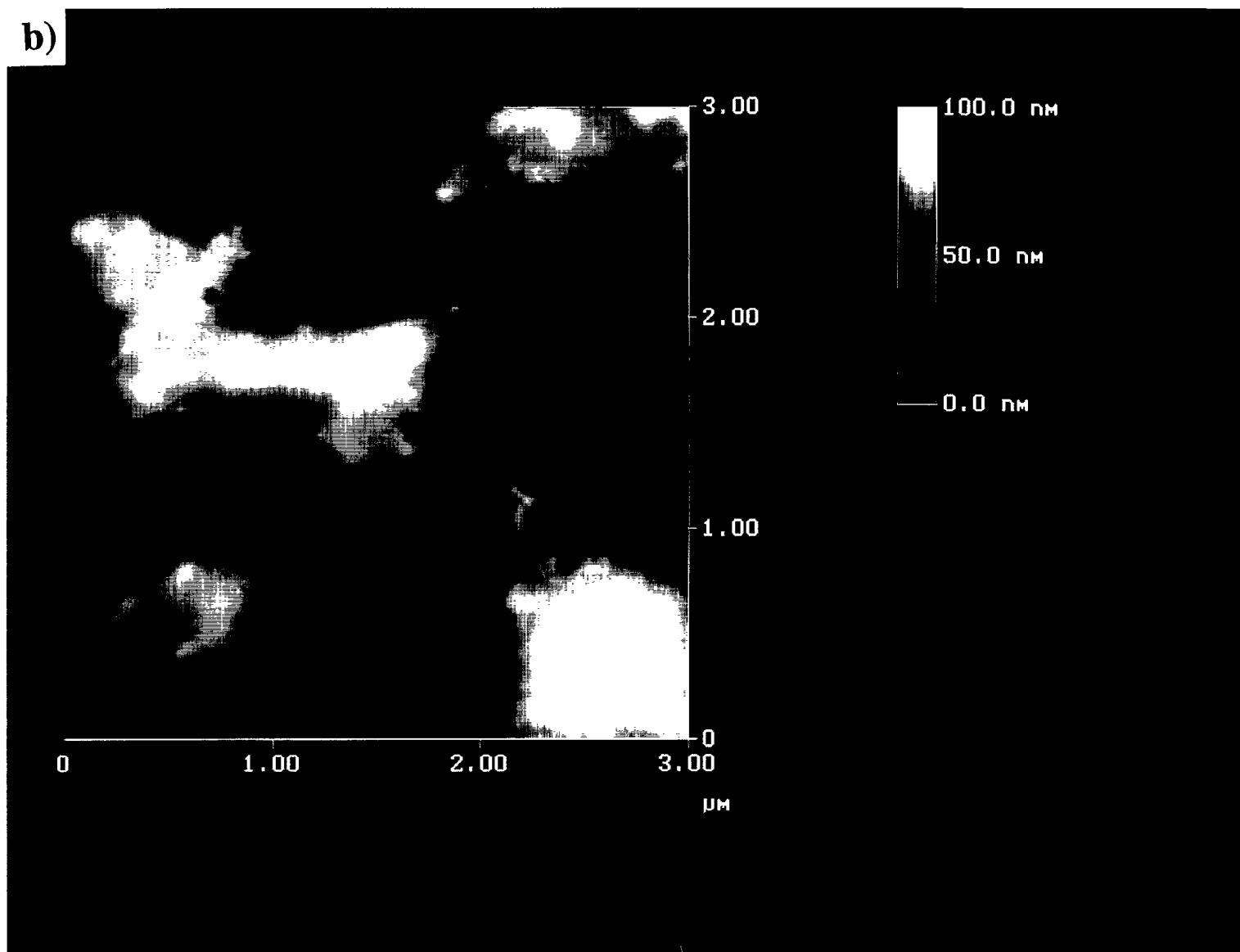
#### ***Supplementary Figures.***

Supplementary Figure 1. AFM images of porous Si substrates coated with thin films of (a) calix[4]arene carboxylic acid **1** as well as (b) calix[8]arene carboxylic acid **2e**. Films were deposited from 0.01 M solutions of the relevant calixarene dissolved in CH<sub>2</sub>Cl<sub>2</sub>, according to the procedure described in the text.

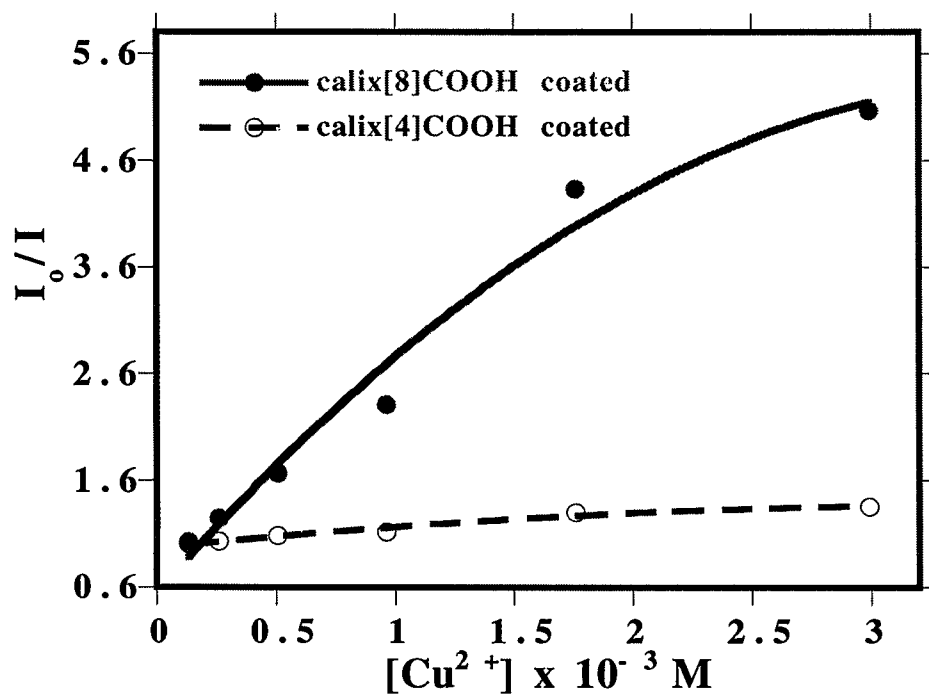
Supplementary Figure 2. Stern-Volmer plots of the reciprocal of normalized PL intensity changes as a function of Cu<sup>2+</sup> quencher concentration for calix[8]-COOH-coated PS versus calix[4]-COOH-coated PS.



Supplementary Figure 1a



Supplementary Figure 1b



Supplementary  
Figure 2