

Supporting Information

Localized entrapment of Green Fluorescent Protein within nanostructured polymer films

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Table 1S. Model parameters for a single-marker “bottom” *d*GFP-layer film.

Slab	b/V (Å⁻²)	d (Å)	σ (Å)
air	0.00	100.0	0.0
PAH-PSS	1.13E-06	438.5	6.0
<i>d</i> GFP	3.44E-06	59.5	29.5
PAH-PSS	1.13E-06	141.5	29.5
PEI	3.0E-07	19.0	10.0
SiO ₂	3.02E-06	10.5	10.5
Si	2.07E-06	100.0	10.5

Table 2S. Model parameters for a single-marker “middle” *d*GFP-layer film.

Slab	b/V (Å⁻²)	d (Å)	σ (Å)
air	0.00	100.0	0.0
PAH-PSS	1.05E-06	268.0	15.0
<i>d</i> GFP	3.36E-06	53.0	28.5
PAH-PSS	1.05E-06	268.5	28.5
PEI	3.00E-07	19.0	19.0
SiO ₂	3.20E-06	7.5	7.5
Si	1.96E-06	100.0	7.5

Table 3S. Model parameters for a single-marker “top” *d*GFP-layer film.

Slab	b/V (\AA^{-2})	d (\AA)	σ (\AA)
air	0.00	100.0	0.0
PAH-PSS	1.05E-06	107.5	15.0
<i>d</i> GFP	3.41E-06	53.5	33.0
PAH-PSS	1.05E-06	485.0	33.0
PEI	3.00E-07	19.0	19.0
SiO ₂	3.20E-06	7.5	7.5
Si	1.96E-06	100.0	7.5

Table 4S. Model parameters for a 3-marker film.

Slab	b/V (\AA^{-2})	d (\AA)	σ (\AA)
air	0.00	100.0	0.0
PAH-PSS	1.96E-06	30.5	20.0
<i>d</i> GFP	2.30E-06	43.5	25.0
PAH-PSS	1.96E-06	126.5	25.0
<i>d</i> GFP	2.30E-06	43.5	25.0
PAH-PSS	1.96E-06	126.5	25.0
<i>d</i> GFP	2.30E-06	43.5	25.0
PAH-PSS	1.96E-06	103.5	25.0
PEI	6.00E-07	20.3	20.3
SiO ₂	3.20E-06	6.0	6.0
Si	2.10E-06	100.0	6.0

Table 5S. Model parameters for a 4-marker film.

Slab	b/V (\AA^{-2})	d (\AA)	σ (\AA)
air	0.00	100.0	0.0
PAH-PSS	2.05E-06	29.0	18.0
<i>d</i> GFP	2.64E-06	55.0	25.0
PAH-PSS	2.05E-06	120.4	25.0
<i>d</i> GFP	2.64E-06	55.0	25.0
PAH-PSS	2.05E-06	120.4	25.0
<i>d</i> GFP	2.64E-06	55.0	25.0
PAH-PSS	2.05E-06	120.4	25.0
<i>d</i> GFP	2.64E-06	55.0	25.0
PAH-PSS	2.05E-06	100.4	25.0
PEI	5.00E-07	20.0	20.0
SiO ₂	3.20E-06	6.0	5.0
Si	2.14E-06	100.0	6.0

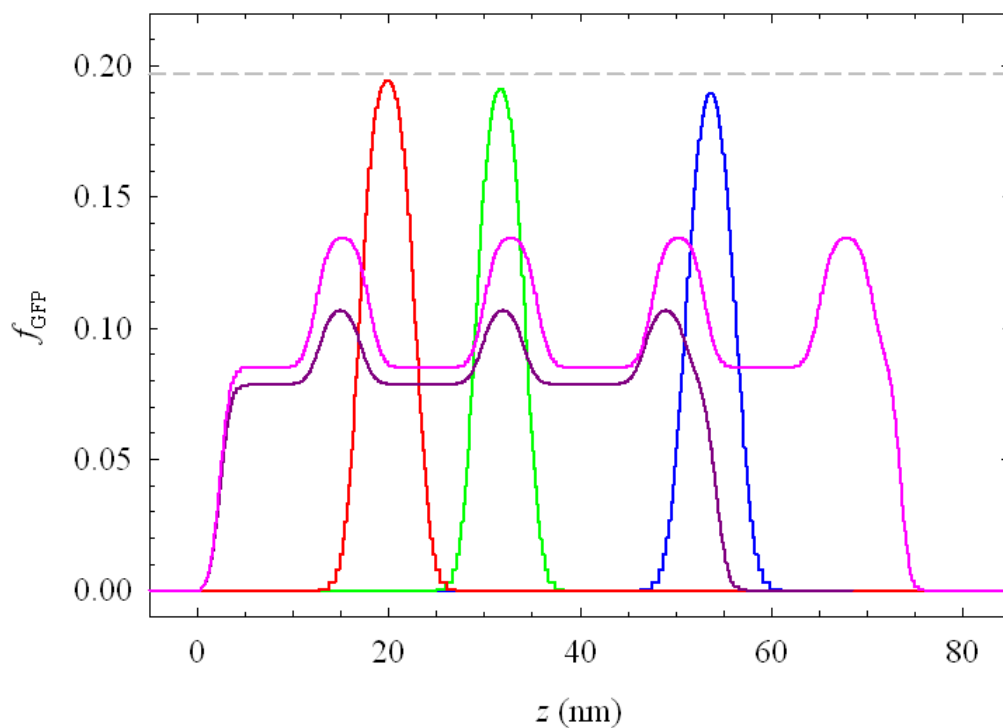


Fig. 1S. Protein volume fractions (f_{GFP}) for single- and several-marker films. Maximum close-packed monolayer density of $d\text{GFP}$ ($f_{cp}=0.195$) is presented by a dashed line.