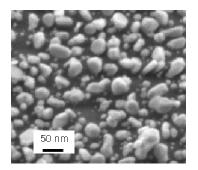
Supporting Information

Enhanced Fluorescence of Cy5-labeled DNA Tethered to Silver Island Films (SIFs): Fluorescence Images and Time-resolved Studies Using Single Molecule Spectroscopy

Yi Fu and Joseph R. Lakowicz*

Figure S1. SEM images of SIF prepared using the method described in the experiment section. We thank Dr. Chandran R. Sabanayagam for providing technical support.



Single-molecule lifetime fitting for intensity decays curves shown in Figure 7.

The average lifetime τ_{av} shown below the parameters is the inensity weighted average lifetime calcualted from the result of the last fit.

$$\tau_{av} = \frac{\sum_{i} Ampl_{i} \cdot Lifet_{i}^{2}}{\sum_{i} Ampl_{i} Lifet_{i}}$$

	Glass (Figure 7A insert)	SIF (Figure 7B insert)
$Ampl_1$	1872	1909.5
Lifet ₁	2.38	0.145
Ampl ₂		180.17
Lifet ₂		0.766
χ^2	1.033	1.070
τ _{av} : (ns)	2.38	0.35