

Table S1. Relative anisotropy fits for each PS

Solution	Rotational Lifetime (ns)
Buffer	0.64 ± 0.05
GGO	0.58 ± 0.04
GGO Trolox	0.72 ± 0.04
GGO TSQ	0.62 ± 0.03
GGO ROXS	0.67 ± 0.04
PCA	0.47 ± 0.03
PCA Trolox	0.57 ± 0.04
PCA TSQ	0.14 ± 0.02
PCA ROXS	0.027 ± 0.001