



**Figure S1.** Fluorescence spectra of the interaction between PBDE and ovine serum albumin (OSA) at 300 K,  $\lambda_{ex} = 280$  nm. a-e concentrations were 0,  $2 \times 10^{-7}$ ,  $4 \times 10^{-7}$ ,  $6 \times 10^{-7}$ ,  $8 \times 10^{-7}$ , and  $10 \times 10^{-7}$  mol/L.

**Table S1.** Binding constants and binding sites of PBDE and OSA

PBDE	$K_A$ (L/mol)	$n$	$R^2$	$\Delta H$ (cal/mol)	$\Delta S$ (cal/mol)
BDE-183	$1.32 \times 10^4$	1.1701	0.9992	-10.14	34.25
BDE-153	$1.22 \times 10^4$	1.2194	0.9992	-9.73	33.97
BDE-154	$1.18 \times 10^4$	1.1425	0.9972	-9.50	33.84
BDE-99	$9.33 \times 10^3$	1.0837	0.9923	-9.01	33.00
BDE-100	$4.56 \times 10^3$	1.0632	0.9908	-8.84	29.42
BDE-47	$3.46 \times 10^3$	1.0330	0.9994	-8.59	28.53
BDE-28	$2.70 \times 10^3$	0.9793	0.9916	-8.14	22.10