

ESI Supporting Information:

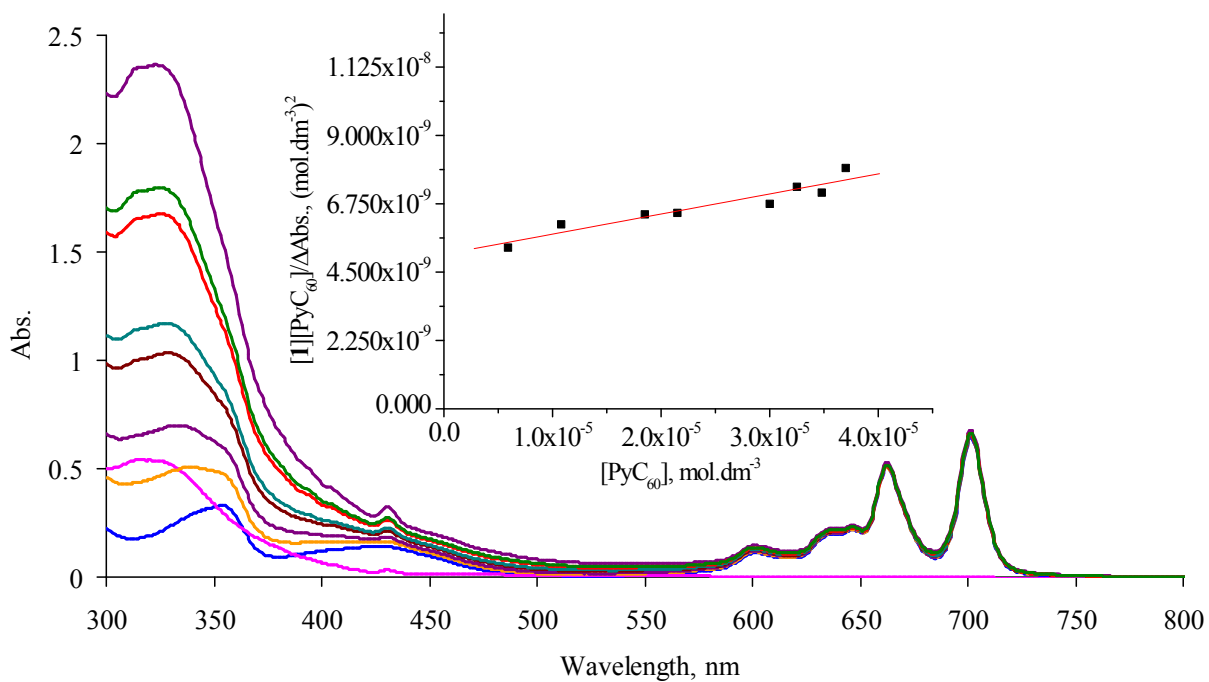


Fig. S1. UV-vis spectral variation of **1** (4.75×10^{-6} mol.dm⁻³) in presence of PyC₆₀ (5.77×10^{-6} to 3.70×10^{-5} mol.dm⁻³) recorded in toluene at 298K; inset of Fig. S1 indicates BH plot of **1**-PyC₆₀ system.

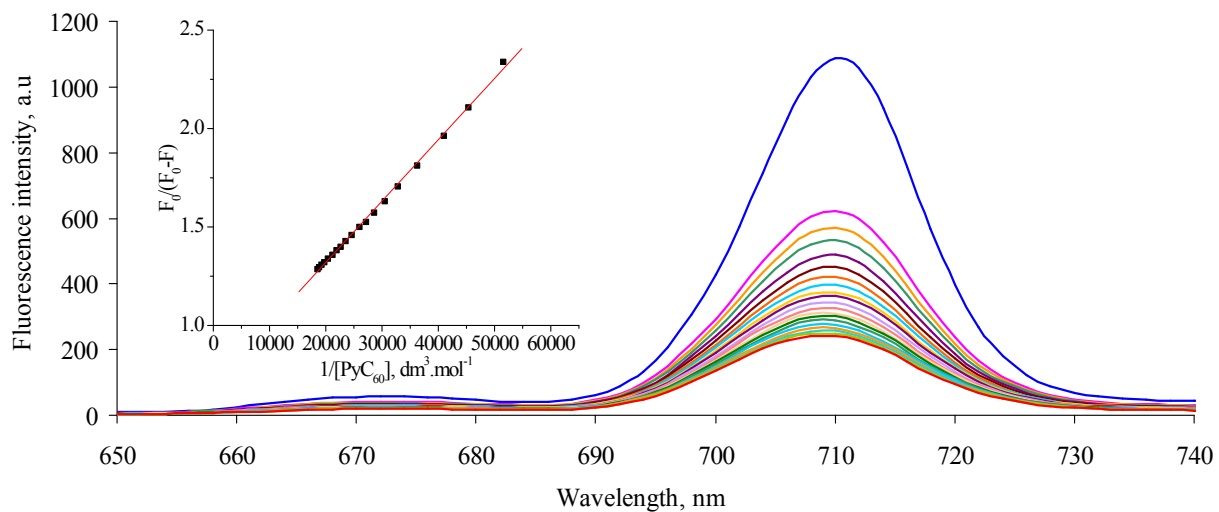


Fig. S2. Fluorescence spectral variation of **1** ($4.50 \times 10^{-6} \text{ mol.dm}^{-3}$) in presence of PyC_{60} (1.95×10^{-5} to $5.40 \times 10^{-5} \text{ mol.dm}^{-3}$); inset of Fig. S2 indicates fluorescence BH plot of **1**- PyC_{60} system. $\lambda_{\text{ex}} = 354 \text{ nm}$; $\lambda_{\text{em}} = 710 \text{ nm}$.

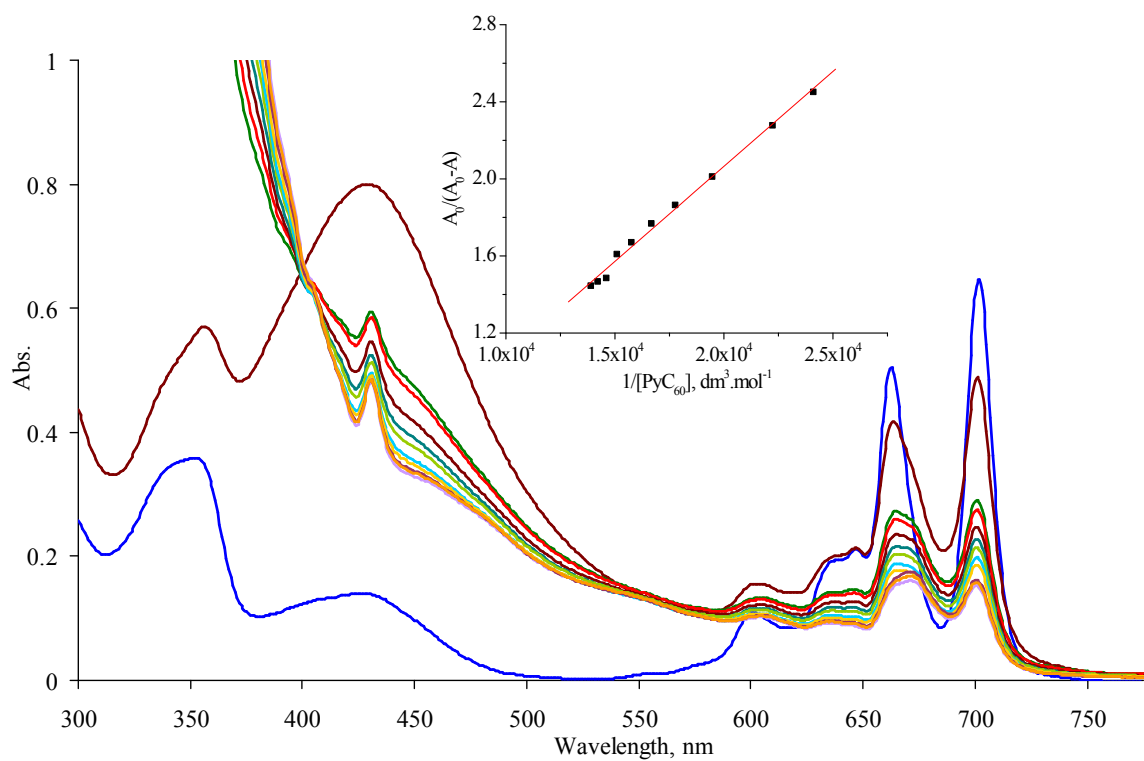
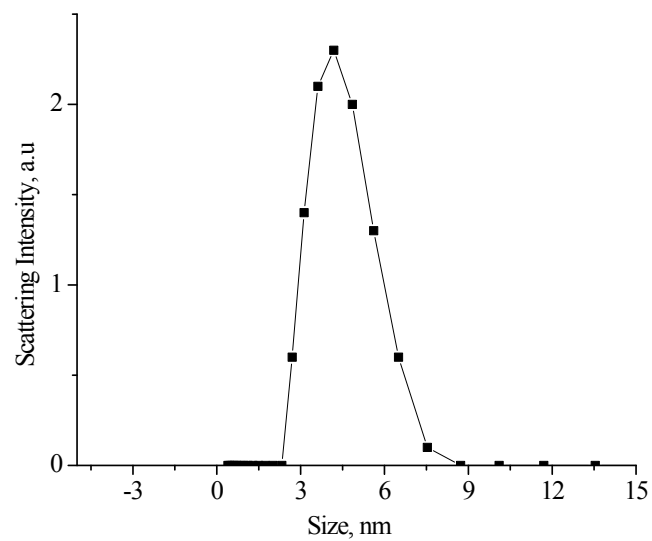
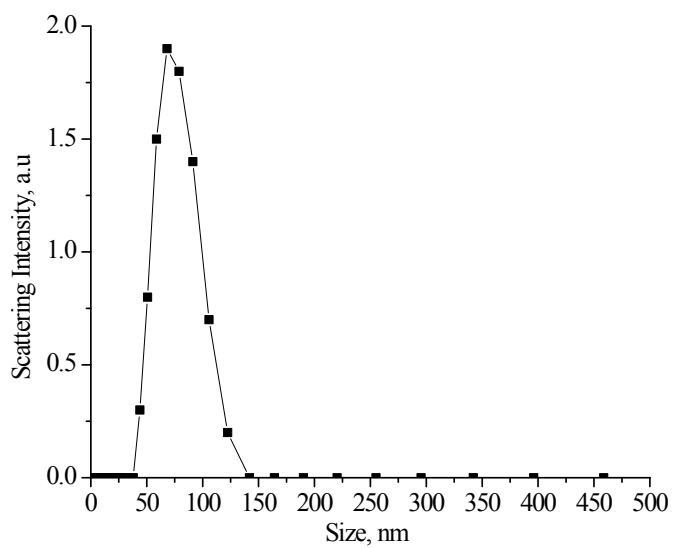


Fig. S3. UV-vis spectral variation of **1** ($4.85 \times 10^{-6} \text{ mol} \cdot \text{dm}^{-3}$) in presence of PyC_{60} (4.15×10^{-5} to $7.20 \times 10^{-5} \text{ mol} \cdot \text{dm}^{-3}$) and AgNp recorded in toluene at 298K; inset of Fig. S3 indicates modified BH plot of **1**- PyC_{60} - AgNp system.

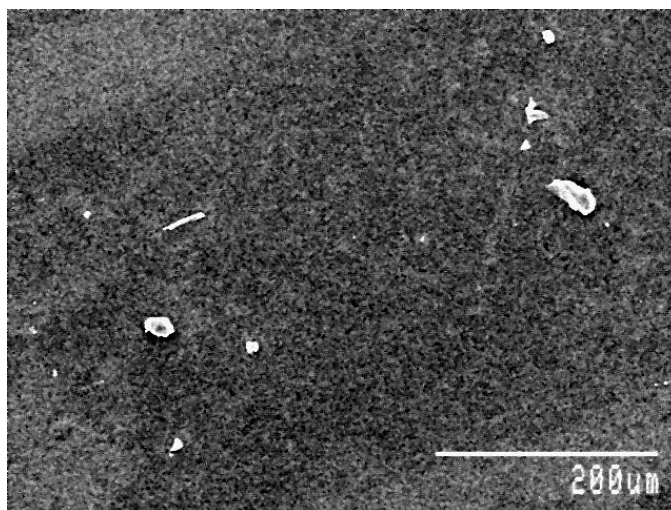


(a)

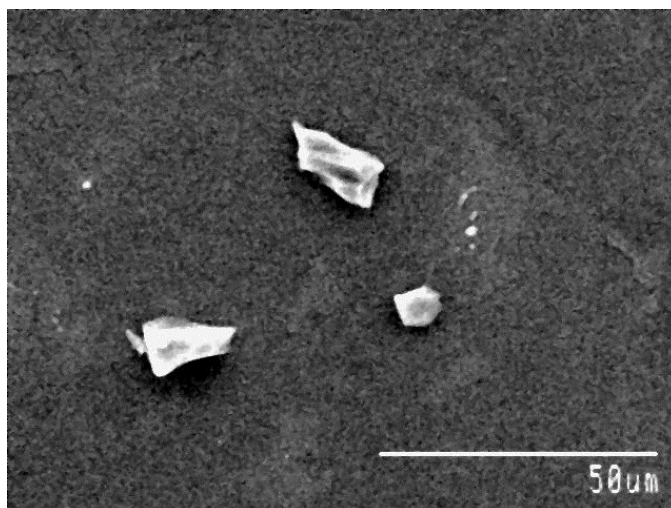


(b)

Fig. S4. DLS experiments of (a) AgNp and (b) **1** (4.85×10^{-6} mol.dm⁻³) + AgNp recorded in toluene at 298K.



(a)



(b)

Fig. S5. SEM images of AgNp in presence of (a) **1** ($5.20 \times 10^{-6} \text{ mol.dm}^{-3}$) and (b) **1** ($5.20 \times 10^{-6} \text{ mol.dm}^{-3}$) + PyC₆₀ ($5.50 \times 10^{-5} \text{ mol.dm}^{-3}$) recorded in toluene.