

Figure S1.  $^1\text{H}$ NMR of 7-allyloxy coumarin

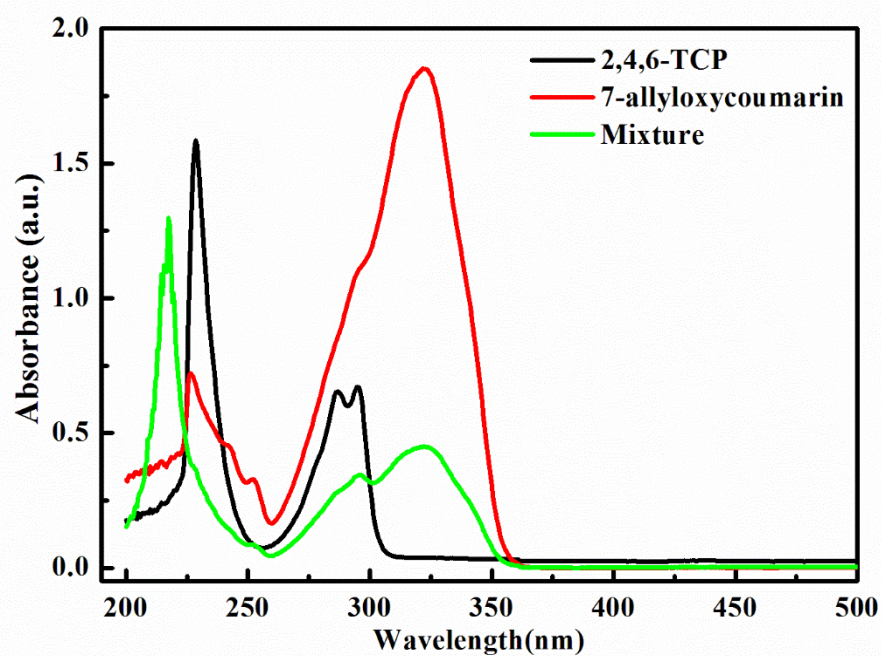


Figure S2. The absorption spectra of 2,4,6-TCP, 7-allyloxy coumarin and mixture solution in dichloromethane (a mixture of 2,4,6-TCP and 7-allyloxy coumarin in a molar ratio of 1:1).

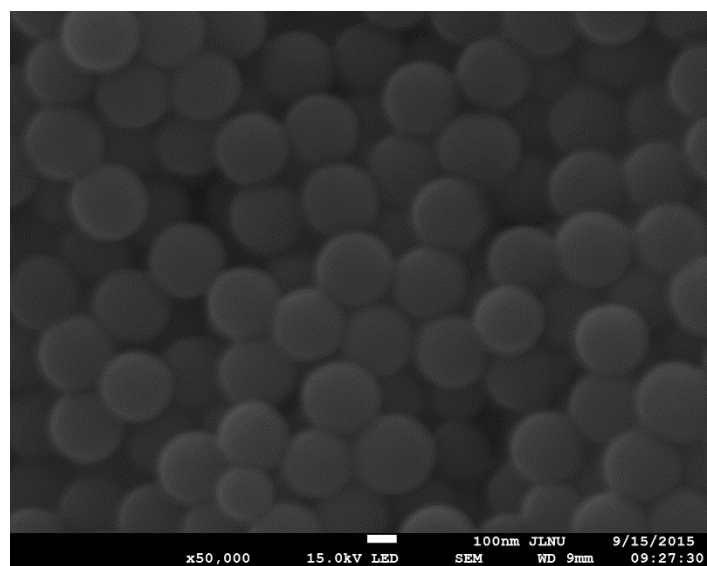


Figure S3. SEM of SiO<sub>2</sub> modified by MPS

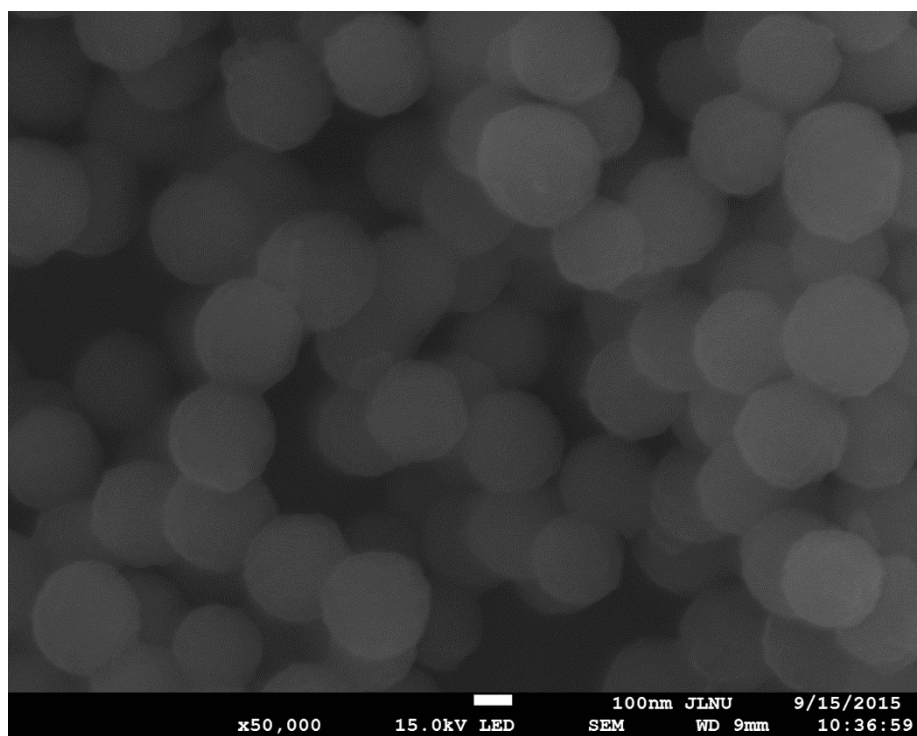


Figure S4. SEM of SiO<sub>2</sub>@dye-FMIPs sensors

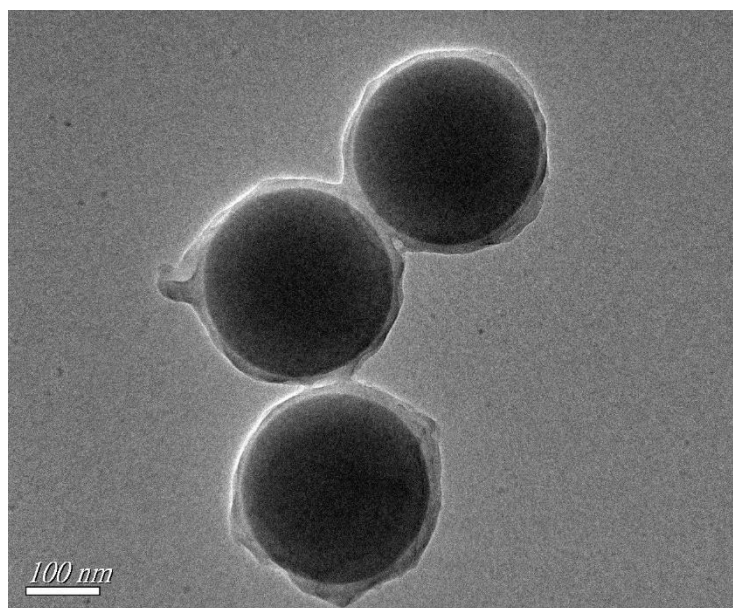


Figure S5. TEM of SiO<sub>2</sub>@dye-FMIPs sensors

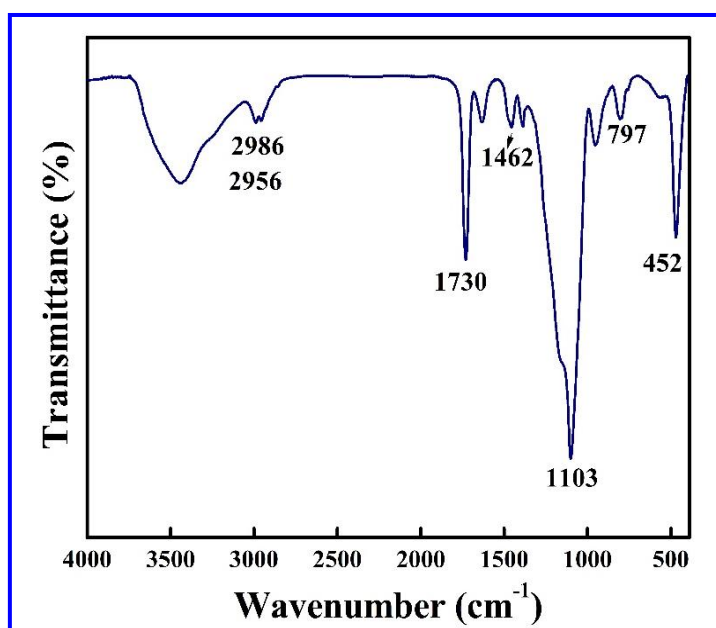


Figure S6. FT-IR spectra of SiO<sub>2</sub>@dye-FMIPs