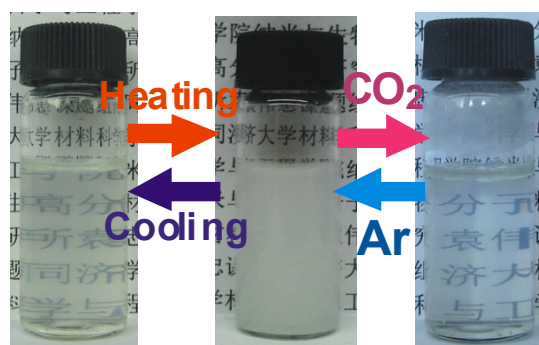


**Amphiphilic block copolymer terminated with pyrene group:  
from switchable CO<sub>2</sub>-temperature dual responses to tunable  
fluorescence**

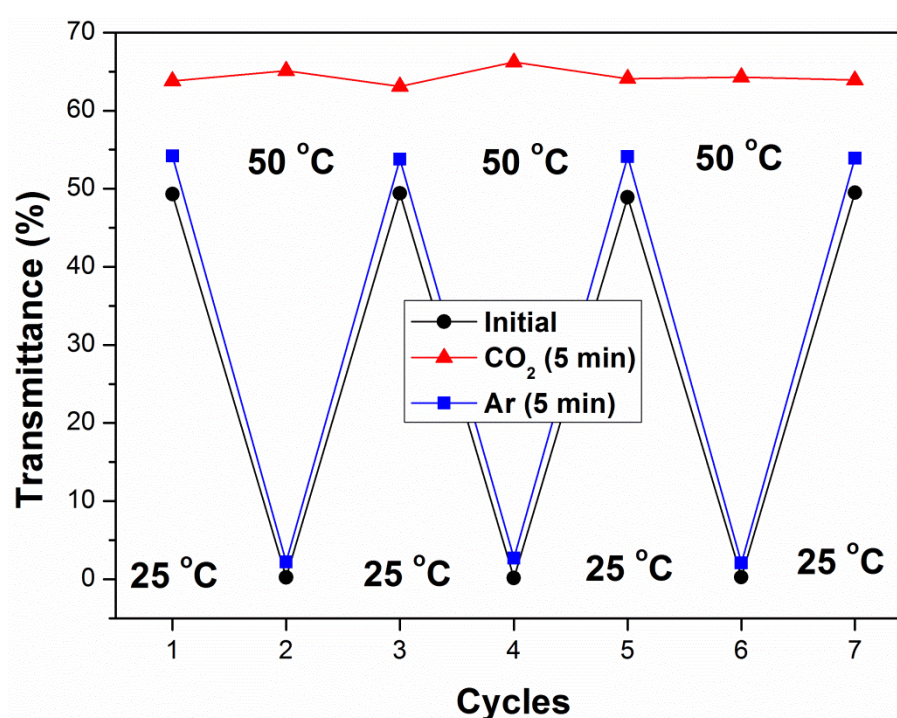
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**Fig. S1** The photographs of reversible transparency-turbidity transition of copolymer micelle solution after heating-cooling cycle and bubbling CO<sub>2</sub>-Ar cycle.



**Fig. S2** The reversible transmittance curves of Py-PCL-*b*-P(NIPAM-*co*-DMAEMA) micelle solutions at 25 °C and 50 °C, respectively.