Supporting Information for

Photochromic behavior of diarylbenzene nanoparticles prepared by top-down and bottomup approaches

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Fig. S1 The photograph of a convenient ball-milling method used in this work.



Fig. S2 The optical microphotograph of powder crystals of 1a.



Fig. S3 Absorption decay curves at λ_{max} for PIBMA film at 298 K. Red plots indicate experimental values. Black solid lines indicate the theoretical curves of the fitting using the biexponential equation.



Fig. S4 (a) Absorption decay curve and (b) first-order kinetic profile at λ_{max} for PBA film at 298 K.



Fig. S5 DSC trace of the amorphous solid of 1a at a heating rate of 5 °C min⁻¹.

Caption of Videos.

Video S1. Photochromic behavior of NP-ball.

Video S2. Photochromic behavior of NP-rep.