

Supporting Information

Synthesis of Emissive Water-Soluble Network Polymers Based on Polyhedral Oligomeric Silsesquioxane and Their Application as an Optical Sensor for Discriminating the Particle Size

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Characterization of POSS-BT(*n*).

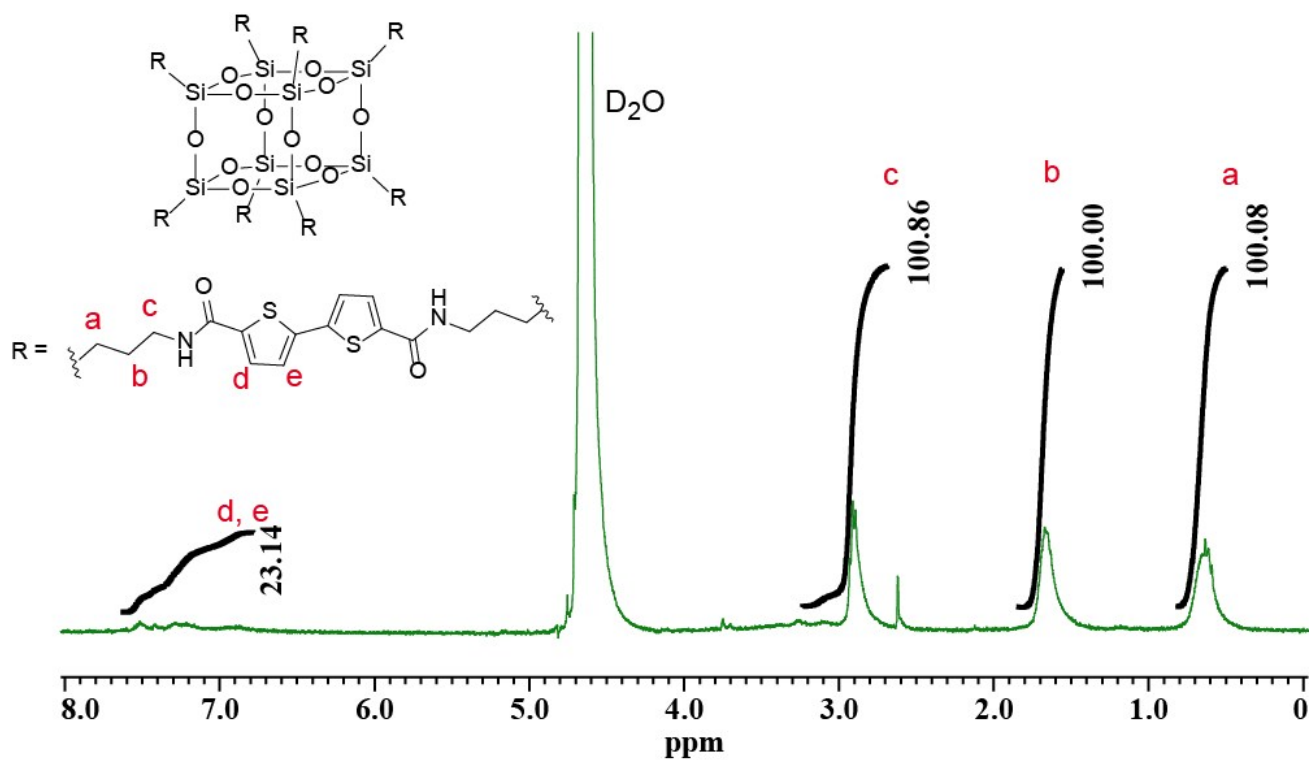


Figure S1. ¹H NMR spectrum of the POSS-BT(2) in D₂O at 25 °C (400 MHz).

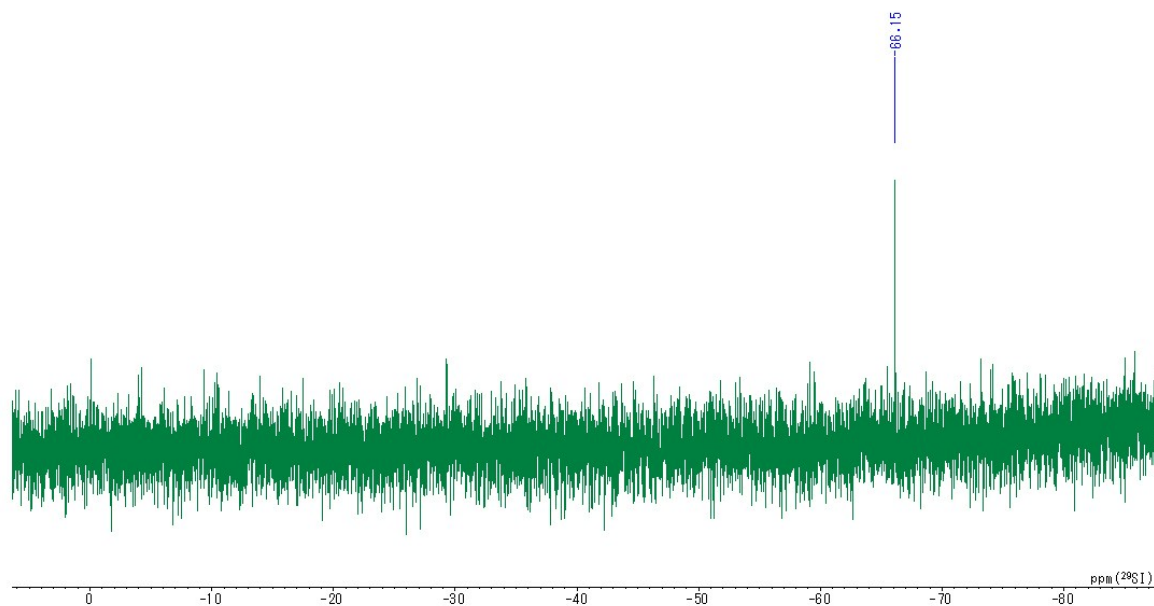


Figure S2. ²⁹Si NMR spectrum of the POSS-BT(2) in D₂O at 25 °C (80 MHz).

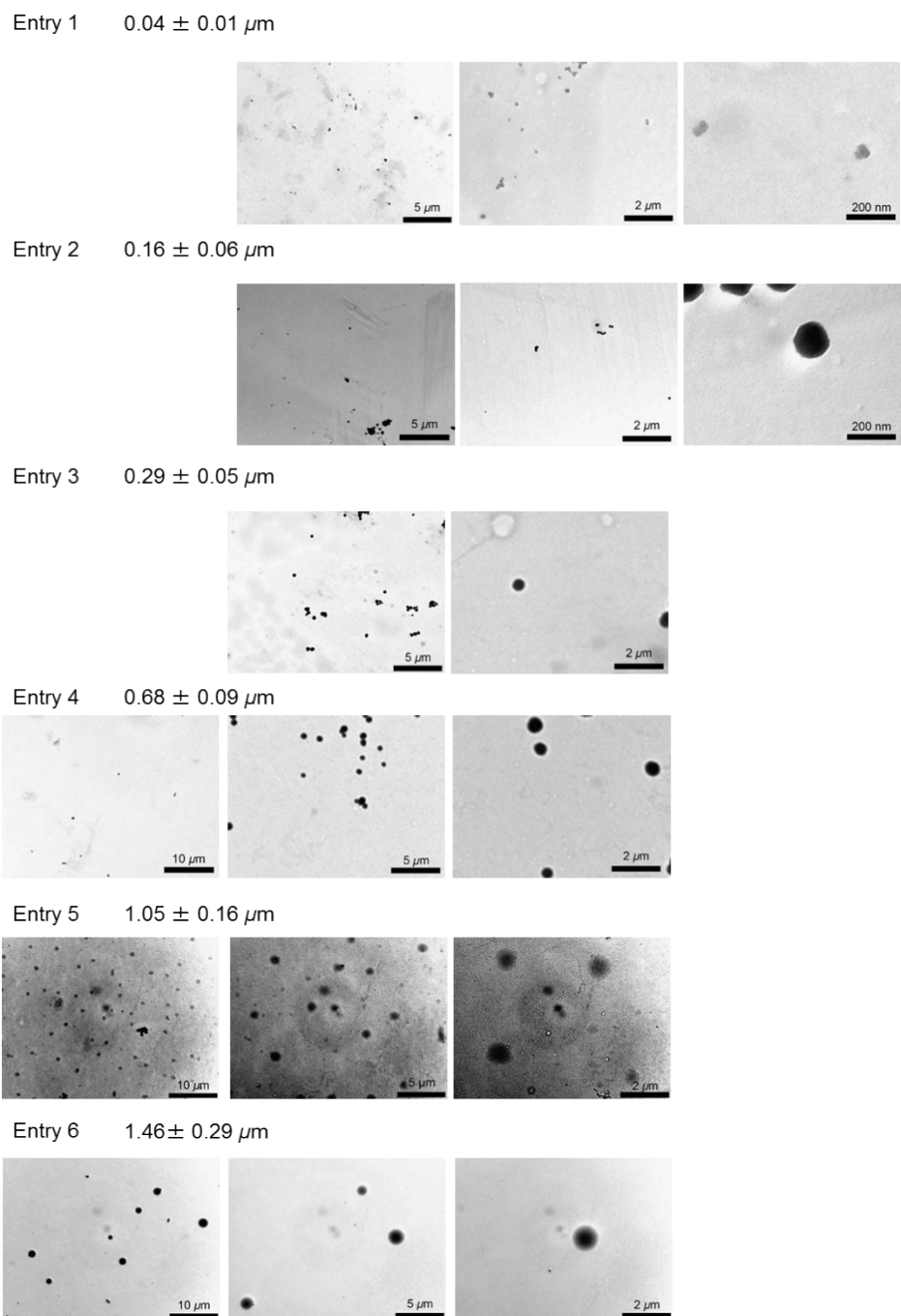


Figure S3. TEM images of silica particles. The diameters and size distributions were calculated as an average and a standard deviation with 100 particles in the TEM images, respectively.

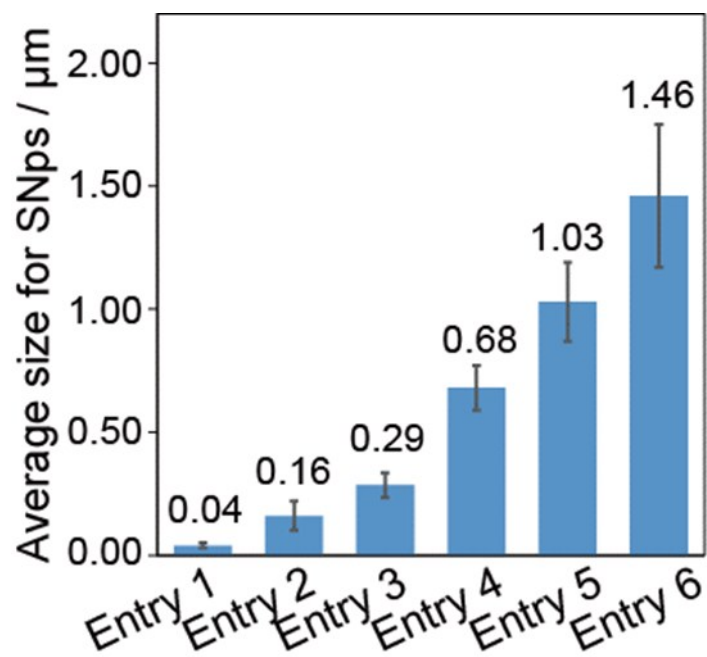


Figure S4. Averaged diameters and size dispersions of the SPs used in this study. The values were calculated with randomly-selected 100 particles observed in the TEM images.

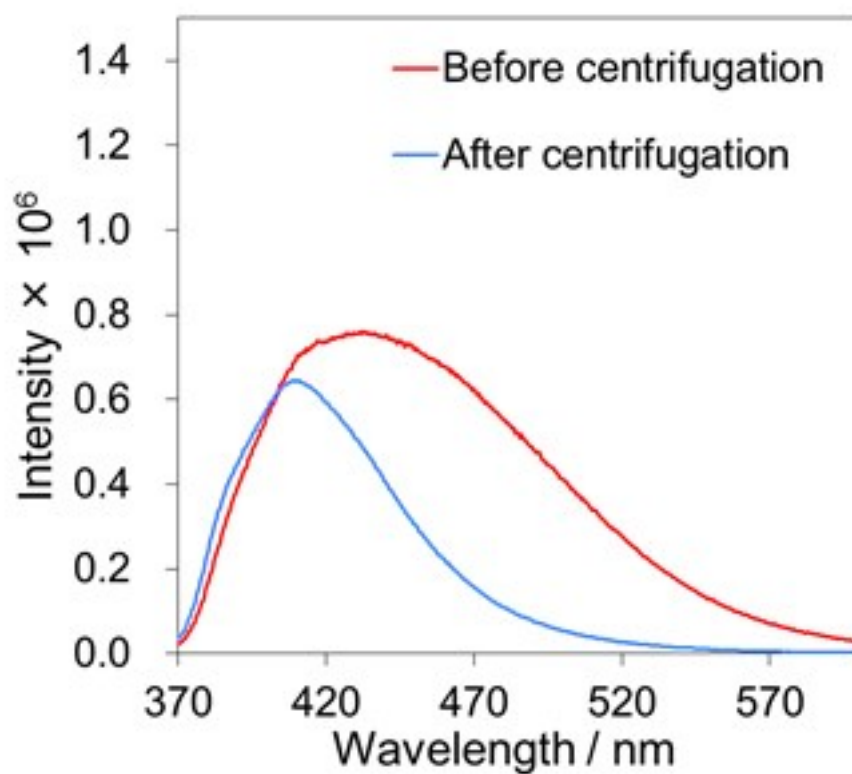


Figure S5. Typical emission spectra of the samples containing POSS-BT(2) and SPs before and after centrifugation.

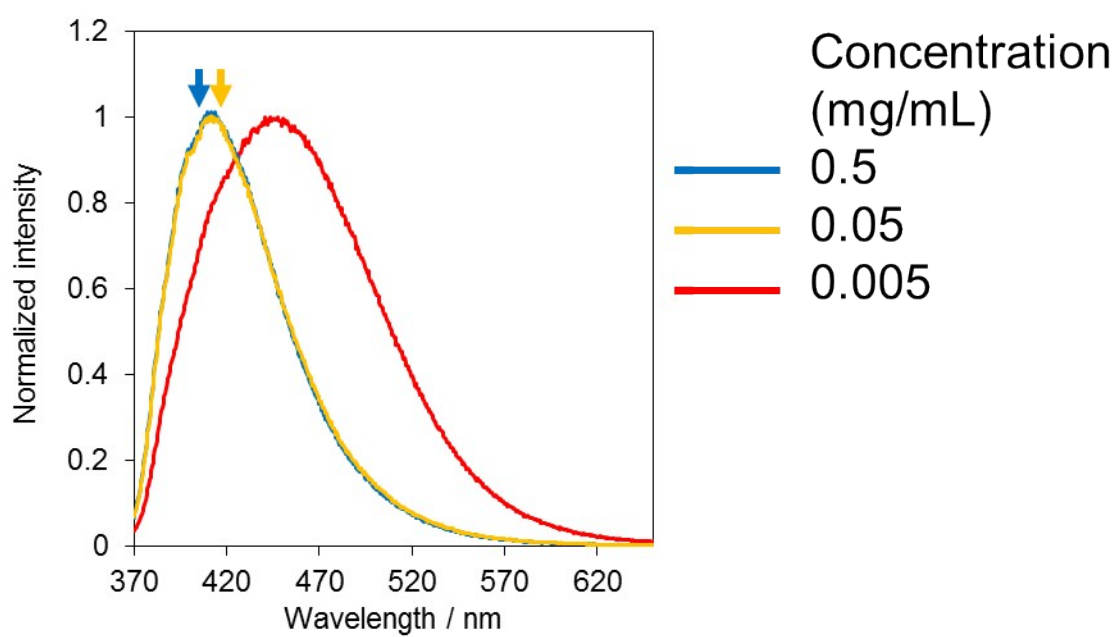


Figure S6. Influence of the concentration change of SPs in the samples on the emission peak from POSS-BT(2).