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Electronic Supplementary Information (ESI)

Unimodal sized silica nanocapsules produced through water-in-oil emulsions prepared by sequential irradiation of kilo- and submega-hertz ultrasounds

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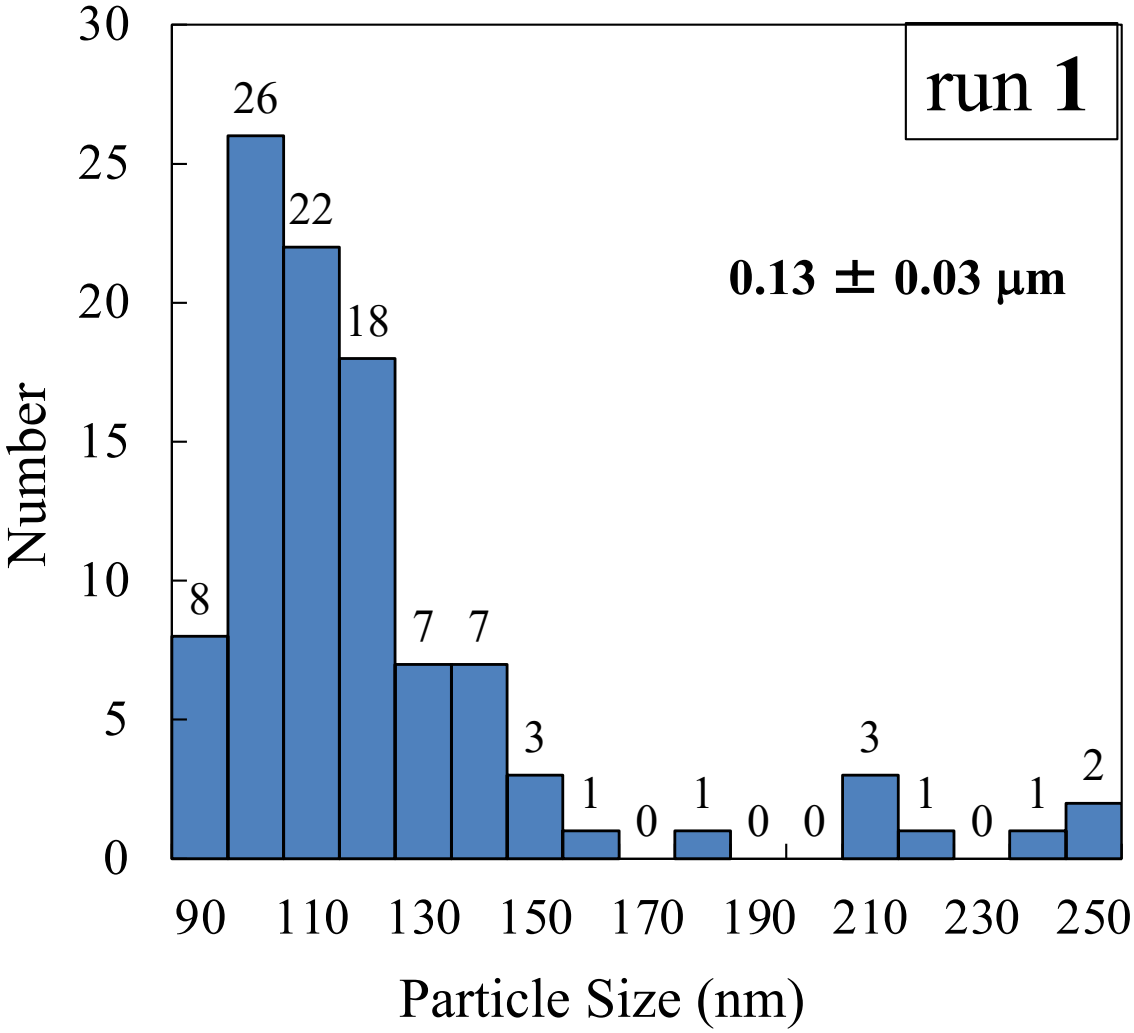

Fig. S1. Particle size distribution of the product obtained after the addition of 1.9 mmol-MTCS to the 0.10 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 1 cycle

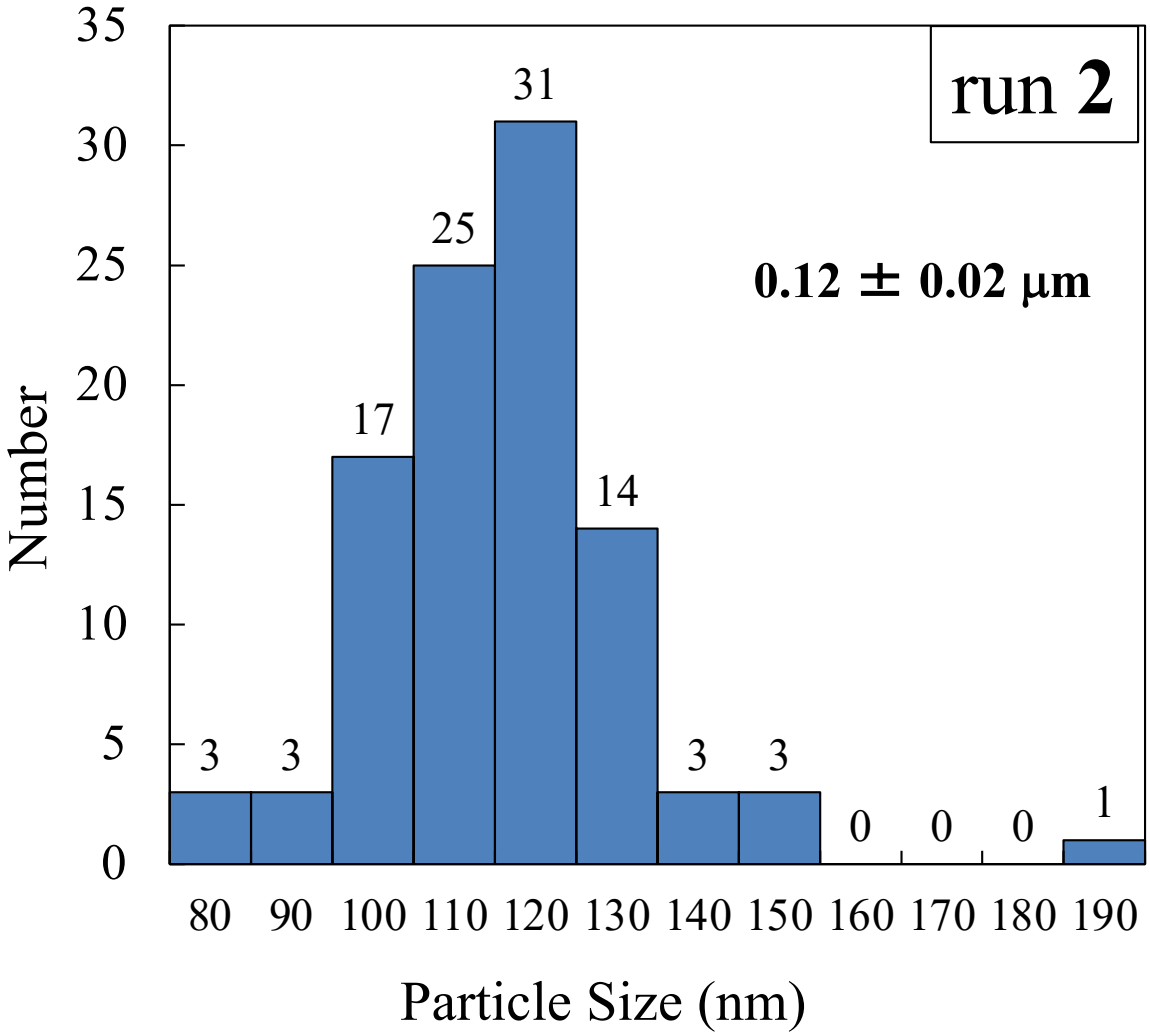

Fig. S2. Particle size distribution of the product obtained after the addition of 1.9 mmol-MTCS to the 0.10 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles

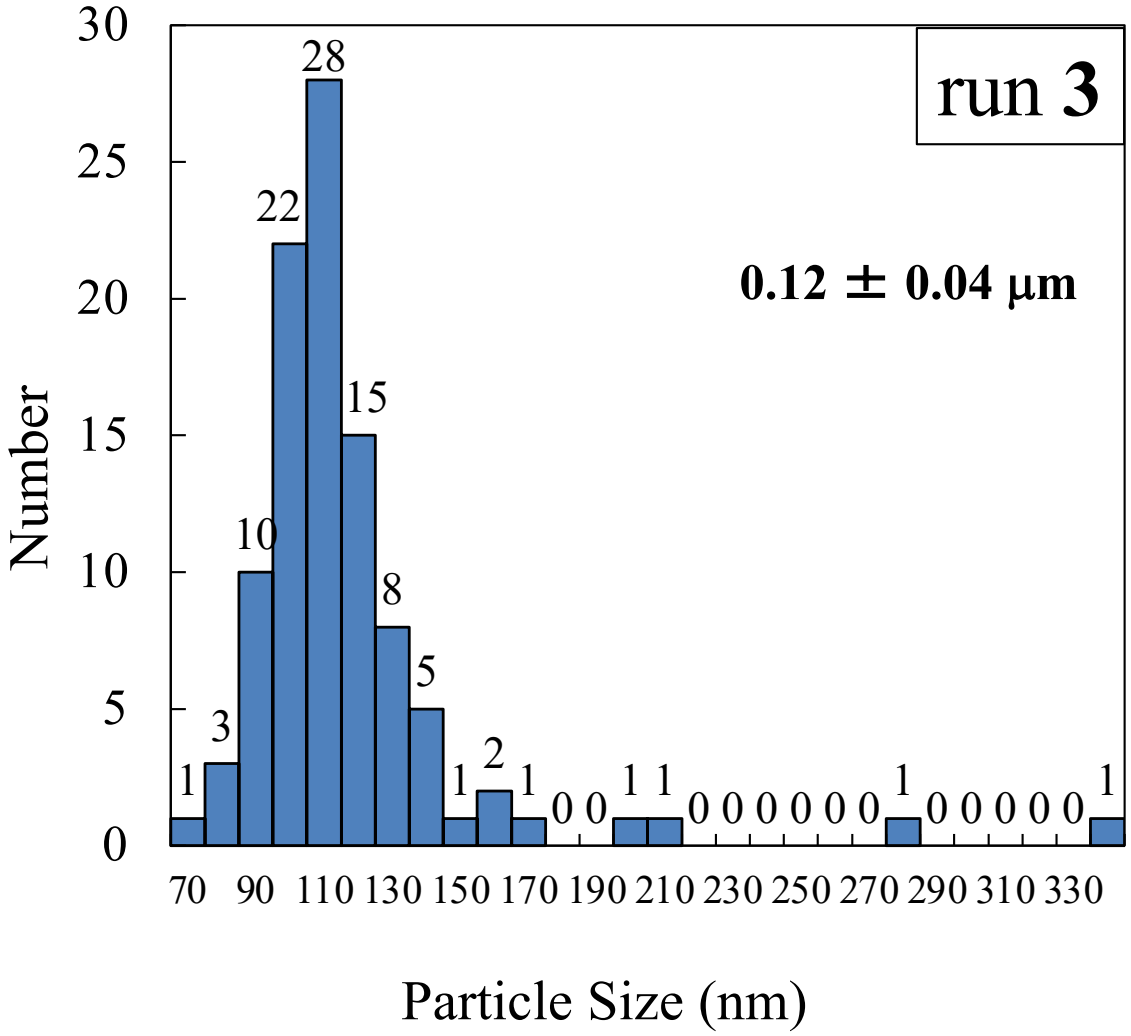

Fig. S3. Particle size distribution of the product obtained after the addition of 1.9 mmol-MTCS to the 0.10 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 5 cycles

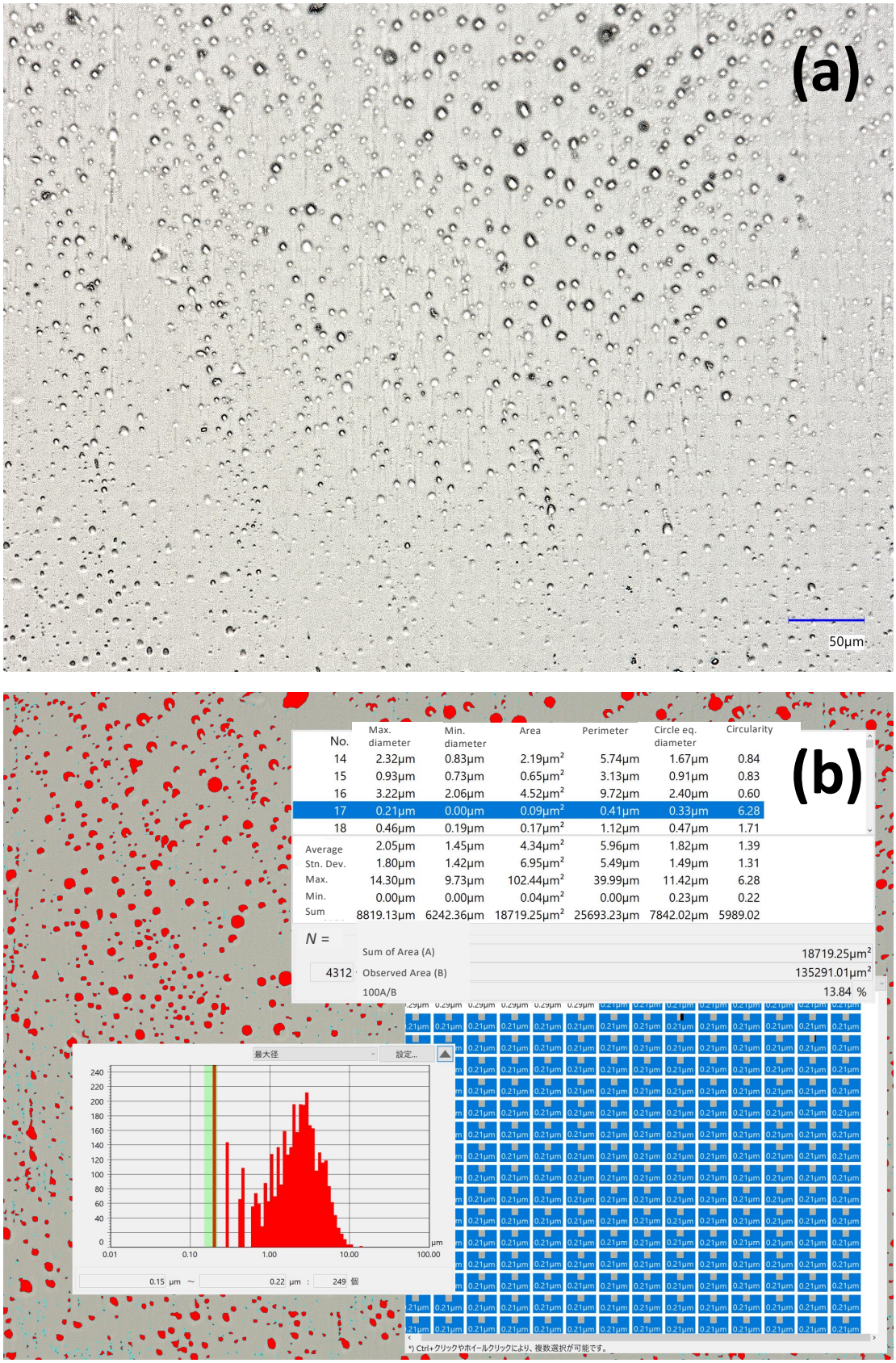

Fig. S4. (a) Optical microscope image of mixture of 0.10 mL-water with 50 mL-soybean oil prepared in 3 cycles of the sequential ultrasound irradiation: (b) The size distribution of water droplets has been provided with thresholding the top image (red area) for the number of 4312 droplets

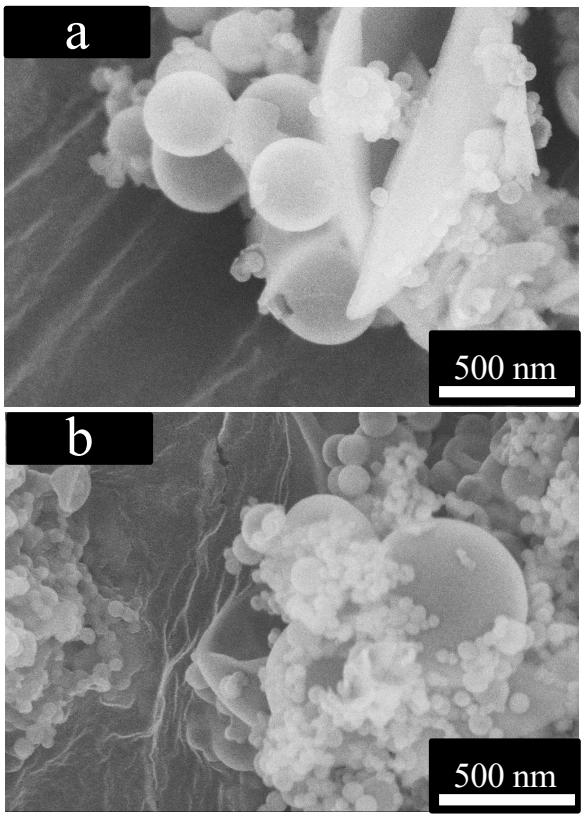

Fig. S5. SEM images of the products using W/O emulsion (dispersing 1.0 mL-water) prepared in 3 cycles of the sequential ultrasound irradiation. Parts (a) and (b) are of the products obtained after reacting 1.9 mmol-MTCS at 30 and 60 min after irradiating these acoustic waves

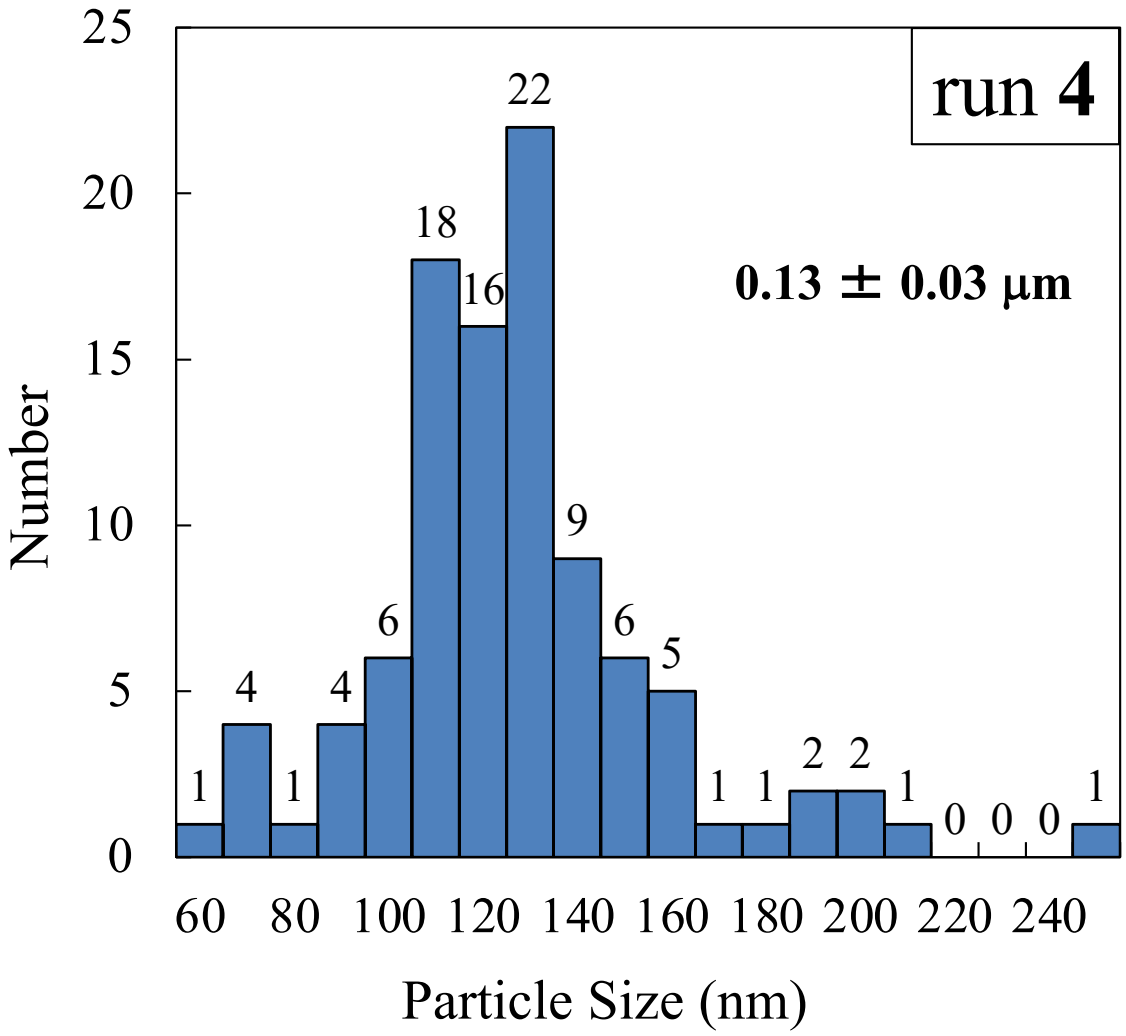

Fig. S6. Particle size distribution of the product obtained after the addition of 9.3 mmol-MTCS to the 0.50 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles

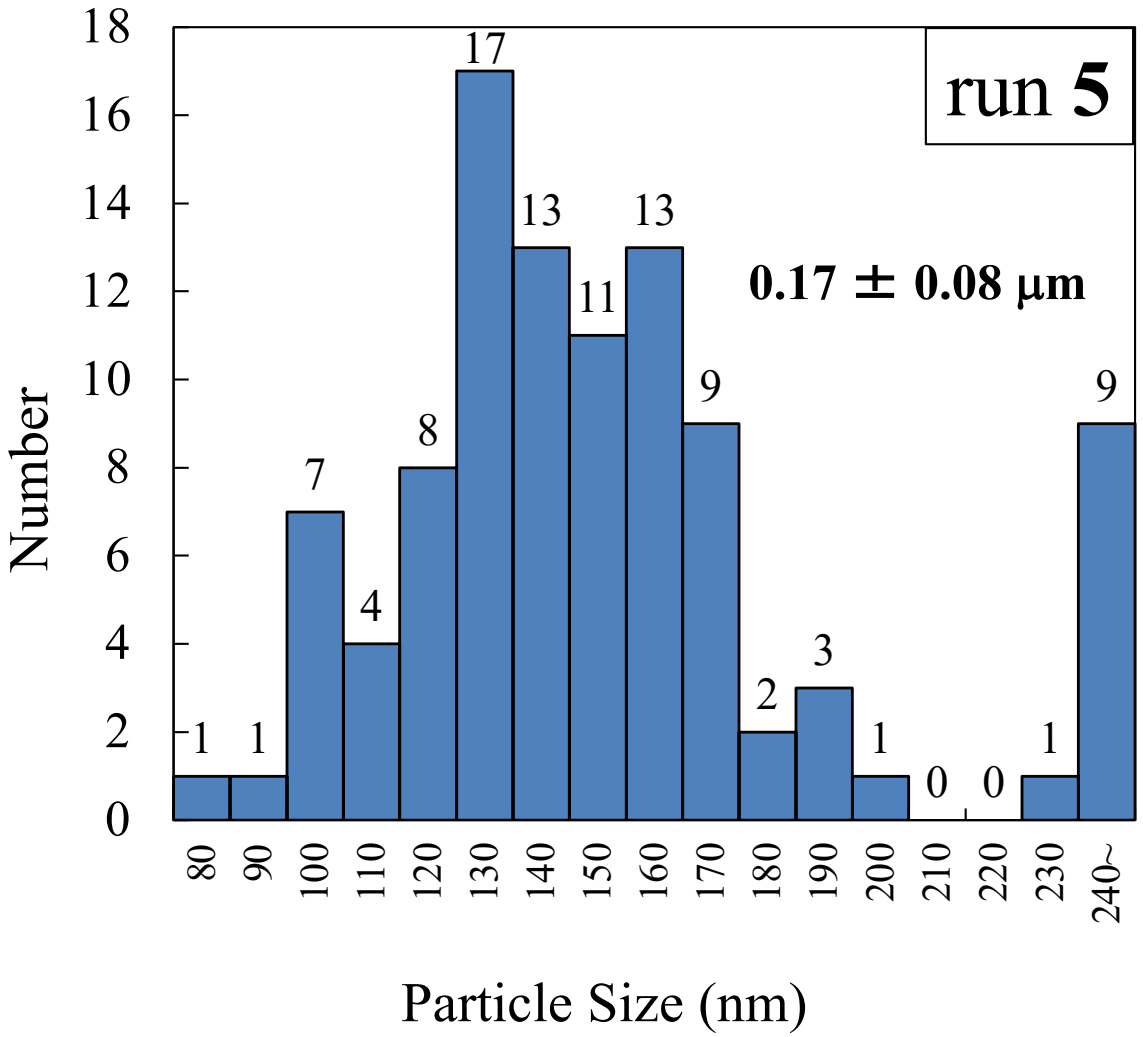

Fig. S7. Particle size distribution of the product obtained after the addition of 18 mmol-MTCS to the 0.97 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles

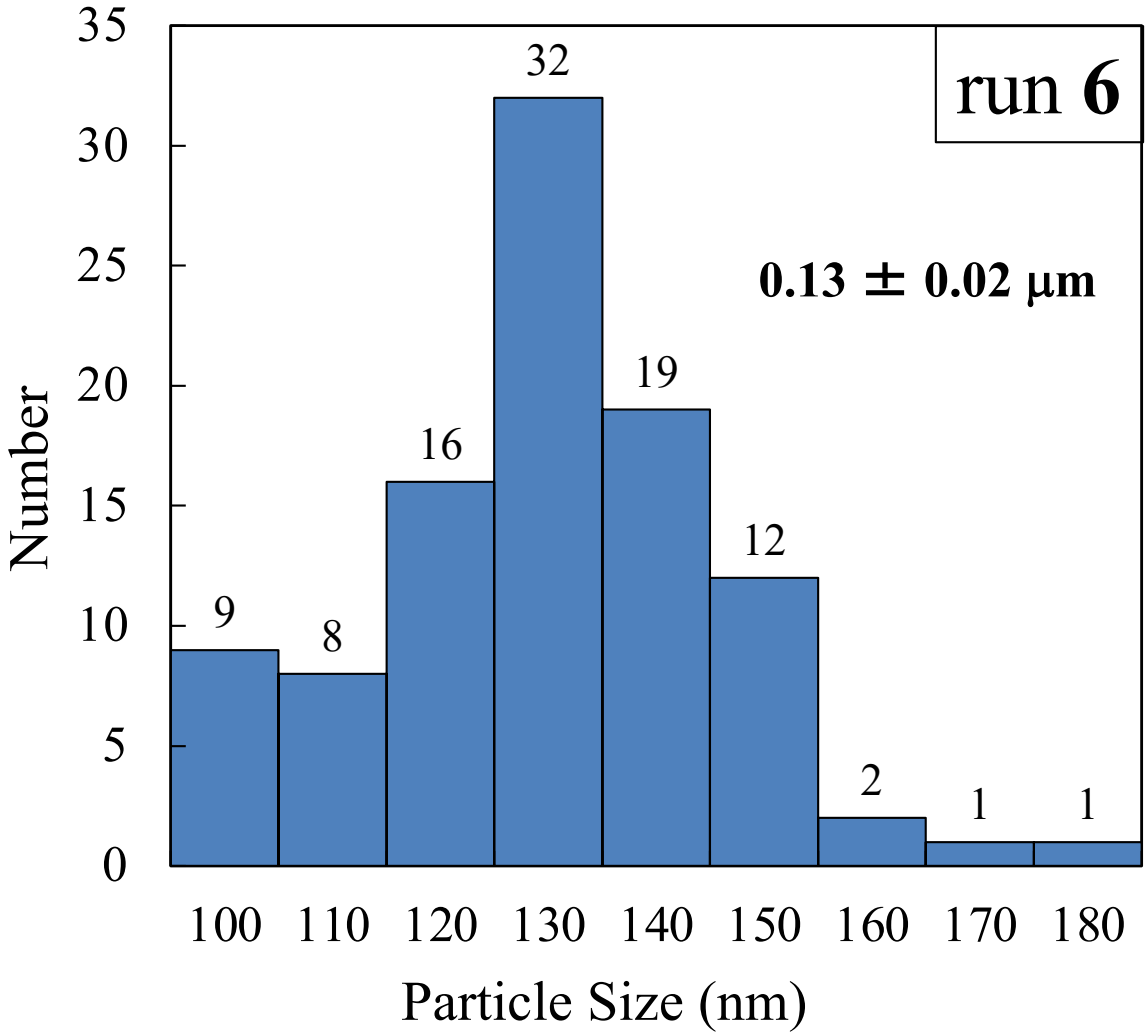

Fig. S8. Particle size distribution of the product obtained after the addition of 21 mmol-MTCS to the 0.97 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles

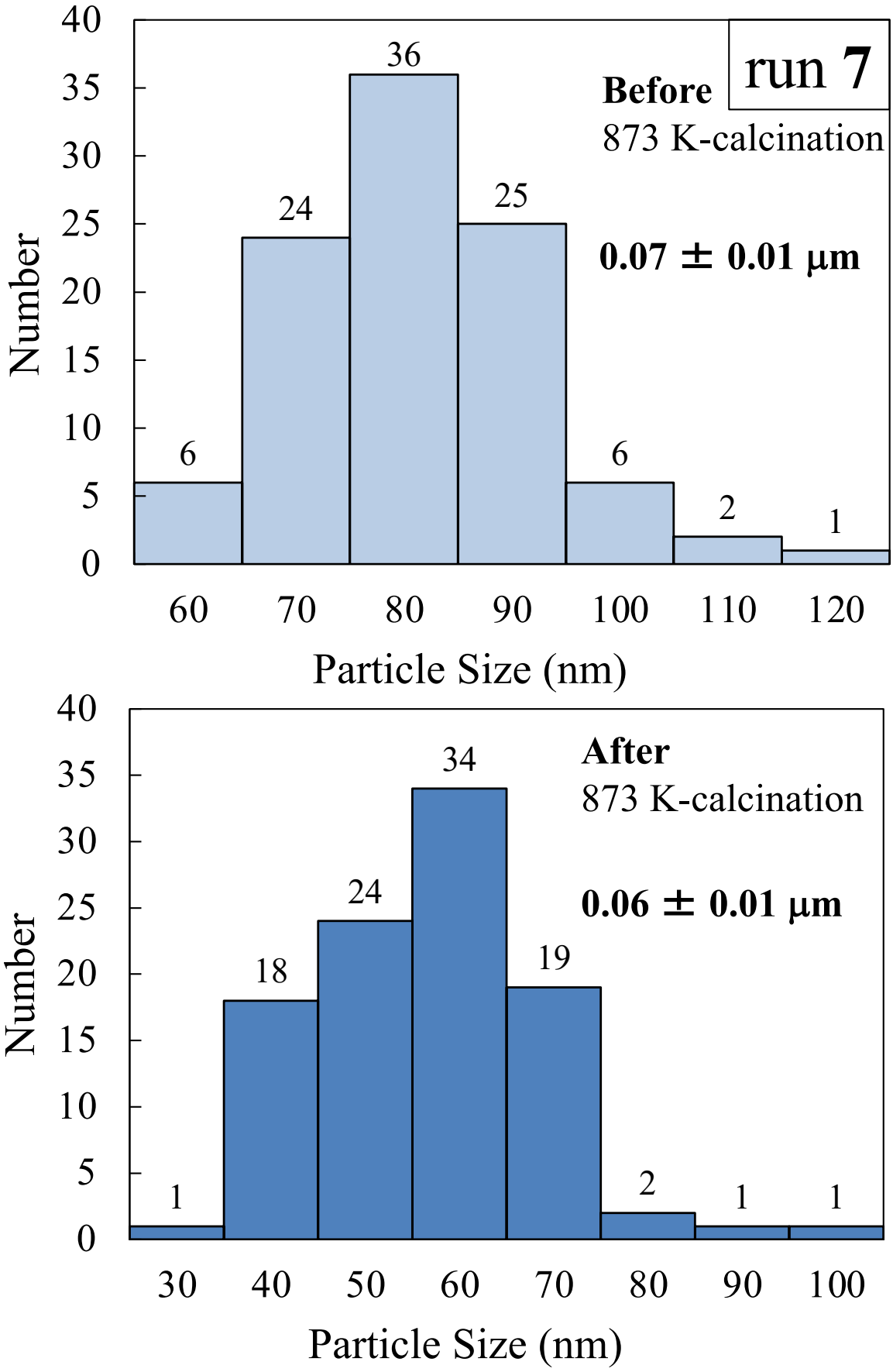

Fig. S9. Particle size distributions of the products obtained after the addition of 0.93 mmol-MTCS to the 0.05 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles. Top and bottom panels show before and after calcination at 873 K, respectively

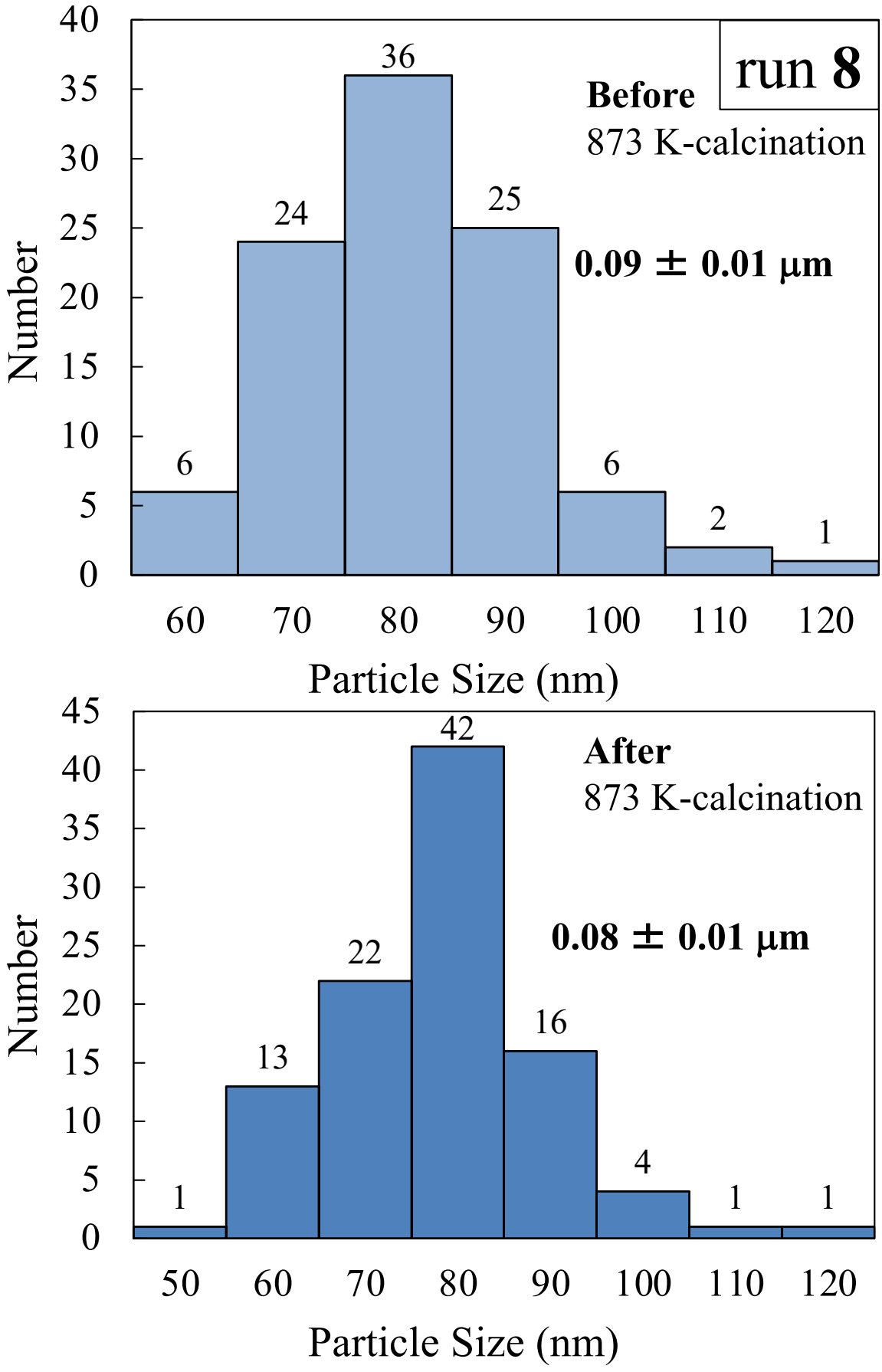

Fig. S10. Particle size distributions of the products obtained after the addition of 0.70 mmol-MTCS to the 0.05 mL-water dispersing soybean oil emulsion, which was prepared through the sequential ultrasound irradiation in 3 cycles. Top and bottom panels show before and after calcination at 873 K, respectively