

Electronic Supplementary Information (ESI):

Accelerated crystallization of mesoporous Al_2O_3 powder recovered by spray-drying with a large amount of heated air

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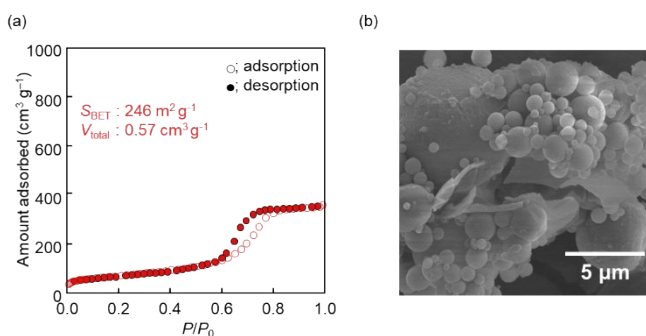


Fig. S1 (a) N_2 adsorption-desorption isotherm and (b) representative SEM image of mesoporous Al_2O_3 (prepared with Pluronic P123 15 g, calcined at $850 \text{ }^\circ\text{C}$) that can be recovered by spray drying with a large ($0.8 \text{ m}^3 \text{ min}^{-1}$) amount of heated air.

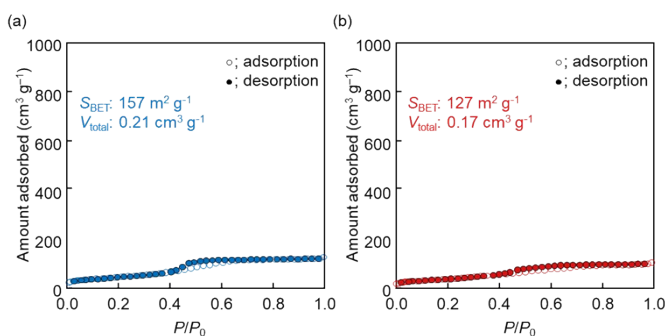


Fig. S2 N_2 adsorption-desorption isotherms of mesoporous Al_2O_3 (prepared with Pluronic F68 10 g, calcined at $850 \text{ }^\circ\text{C}$) that can be recovered by spray drying with (a) a small ($0.2 \text{ m}^3 \text{ min}^{-1}$, blue line) and (b) a large ($0.8 \text{ m}^3 \text{ min}^{-1}$, red line) amount of heated air.

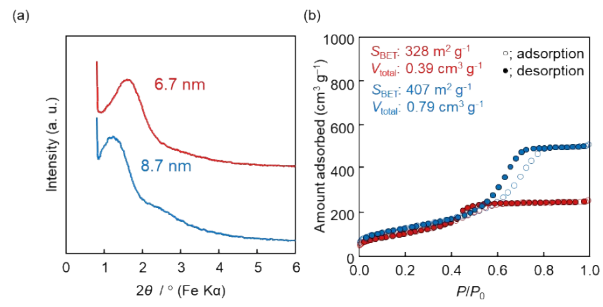


Fig. S3 (a) Low-angle XRD patterns and (b) N_2 adsorption-desorption isotherms of mesoporous Al_2O_3 (prepared with Pluronic F68 10 g, calcined at 400 $^\circ C$) that can be recovered by spray drying with a small ($0.2 m^3 min^{-1}$, blue line) and a large ($0.8 m^3 min^{-1}$, red line) amount of heated air.