Journal Name

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Supporting information

Self-Assembly of Flower-like γ-AlOOH and γ-Al_2O_3 with Hierarchical Nanoarchitectures and Enhanced Adsorption Performance towards Methyl Orange

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Supporting information

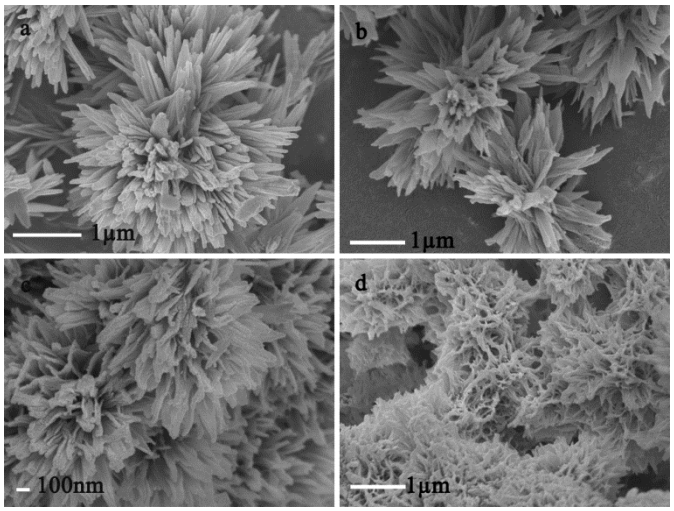

Fig.S1. SEM images of γ-AlOOH obtained before the calcination of the corresponding Sam.5 (a), Sam.6 (b), Sam.1 (c), Sam.7 (d).

Table S1. BET surface area, BJH-pore volume and average pore size of the γ-AlOOH and γ-Al_2O_3 .

Sample	S_{BET} (m^2/g)	Pore volume (cm^3/g)	Average pore size (nm)
a	186	0.31	8.6
b	206	0.40	8.1
c	242	0.43	7.8
d	260	0.49	7.3
e	262	0.50	7.9
f	396	0.87	7.4

a, γ-AlOOH obtained before calcination of the Sam.1 ; b, γ-Al_2O_3 (Sam.5); c, γ-Al_2O_3 (Sam.6) ;d, γ-Al_2O_3 (Sam.1); e, γ-Al_2O_3 (Sam.7); f, commercial γ-Al_2O_3.

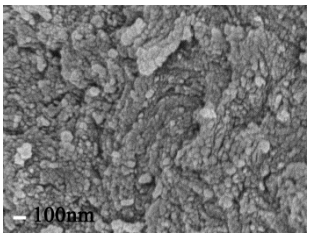

Fig.S2 SEM image of the Sam.8.

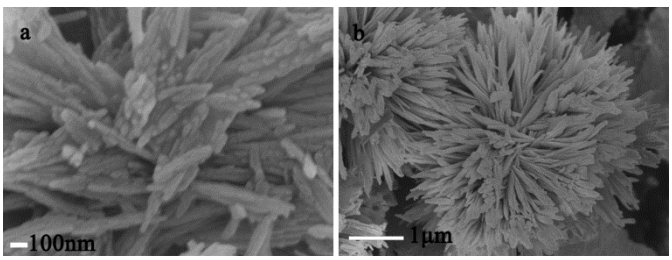

Fig.S3. Morphology evolution of the samples prepared at different reaction stages at R_{UAl}=1.5, V_{p123}=5 and 150℃ for (a) 8 h and (b) 20 h.