

Supplementary material

Synthesis of Flower-like ZnO and Its Enhanced Sensitivity towards NO₂ Gas Detection at Room Temperature

Zhicheng Cai ¹, Jiho Park ² and Sunghoon Park ^{3,4,*}

¹ Department of Software Convergence, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul 05006, Republic of Korea; cai1121@hotmail.com

² Department of Electronics and Information Engineering, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul 05006, Republic of Korea; jjpjh5483@naver.com

³ Department of Intelligent and Mechatronics Engineering, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul 05006, Republic of Korea

⁴ Department of Semiconductor System Engineering, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul 05006, Republic of Korea

* Correspondence: s.park@sejong.ac.kr; Tel.: +82-2-6935-2522

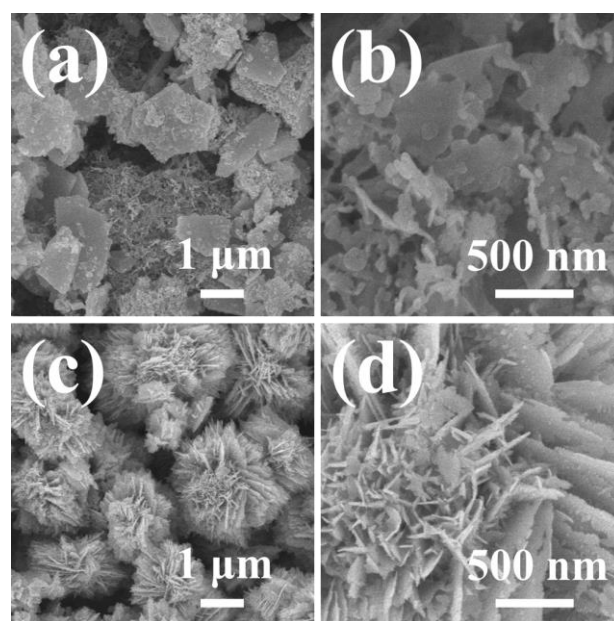


Figure S1. FESEM images of the formation stages obtained at (a) 0.3 g, and (c) 0.6 g NaOH, (b) and (d) represent corresponding high-magnification images.

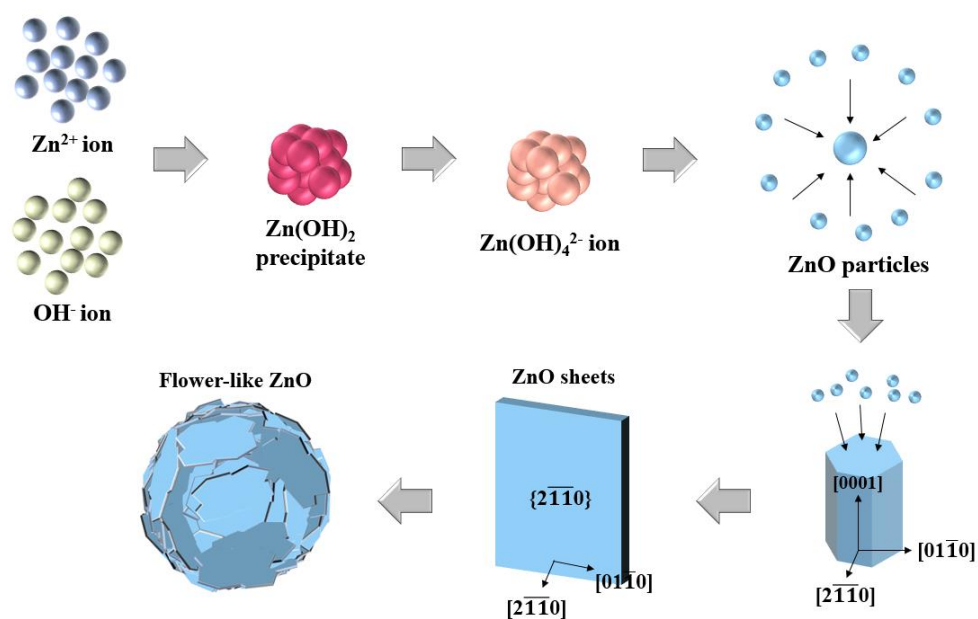


Figure S2. Formation of the flower-like ZnO, and the schematic illustration of the formation process and mechanism.

Table S1. Average crystallite sizes of 0ZnO, 4ZnO, 6ZnO, and 8ZnO synthesized in this work.

Sample	0ZnO	4ZnO	6ZnO	8ZnO
Crystallite average sizes (nm)	16.56	19.91	21.81	35.35