

Supplementary Material for

A concise selenization of ZrO₂ endowing the material catalytic activity for oxidative alkene degradation†

Daming Yong,^{a*} Tingting Zuo,^b Rongrong Qian,^c Zijie Wei,^b Jie Tian,^a Xu Zhang,^{b*}

^a School of Chemical Engineering, Yangzhou Polytechnic Institute, Yangzhou, Jiangsu 225127, China

Email: yongdaming@hit.edu.cn. Tel: +86-514-87433323

^b School of Chemistry and Chemical Engineering, Yangzhou University, Yangzhou, Jiangsu 225002, China

Email: zhangxu@yzu.edu.cn. Tel: +86-514-87979061

^c Jiangsu College of Tourism, Yangzhou 225009, China

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Original SEM image

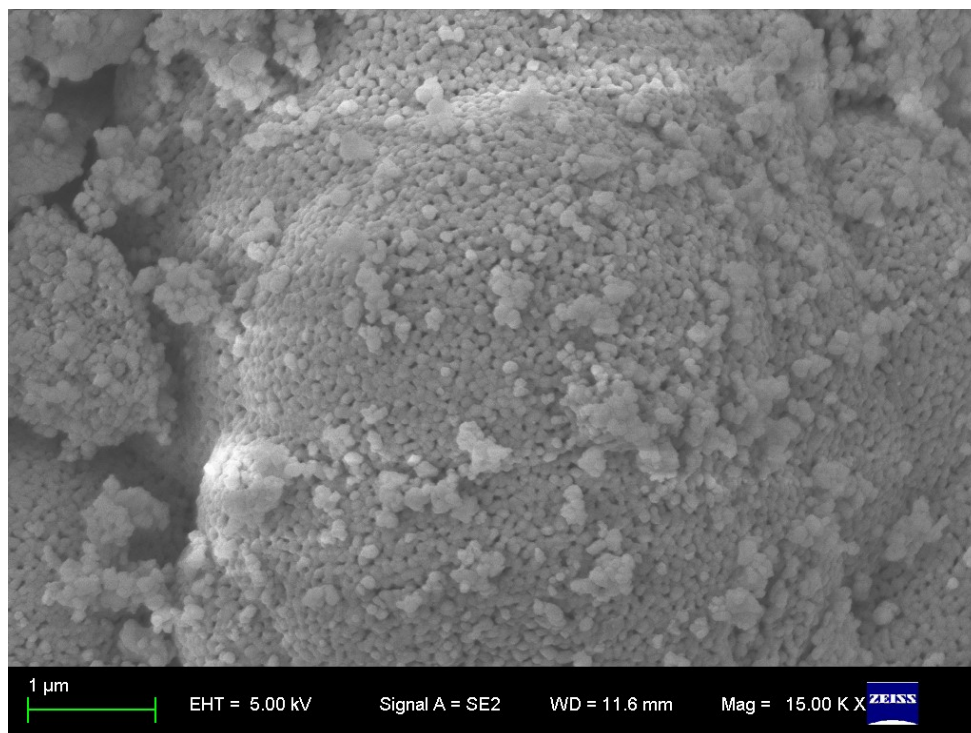


Fig. S1. SEM image of ZrO₂.

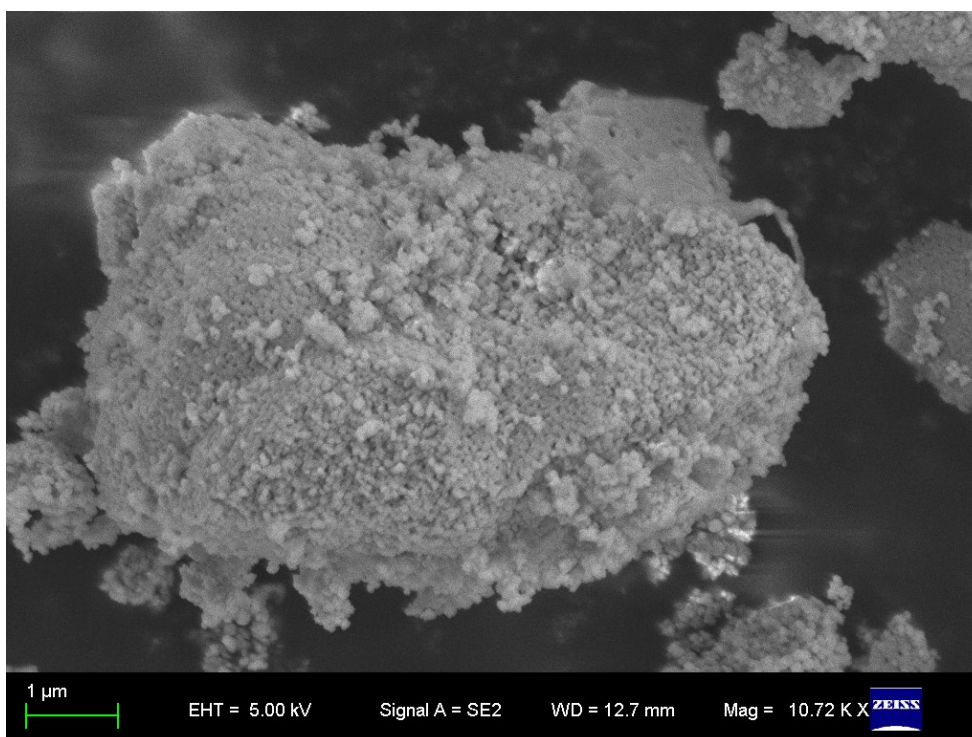


Fig. S2. SEM image of Se@ZrO₂.

Characterization data of benzophenone

Benzophenone: White solid, m.p. 47.8–49.0 °C (lit. 47–49 °C). IR (KBr): 3060, 1662, 1595, 1444, 1318, 1281, 1000, 931, 808, 765, 704, 631 cm⁻¹; ¹H NMR (400 MHz, CDCl₃, TMS, ppm): δ 7.80 (d, *J* = 6.4 Hz, 4H), 7.59 – 7.55 (m, 2H), 7.47 (t, *J* = 7.8 Hz, 4H); ¹³C NMR (101 MHz, CDCl₃, TMS, ppm): δ 196.8, 137.7, 132.5, 130.1, 128.3. *Known Compound*.¹

References

1. Spectral Database for Organic Compounds, SDBS:

http://sdb.db.aist.go.jp/sdb/cgi-bin/direct_frame_top.cgi.