

Synthesis and Characterization of Micro/nano VO₂ (M) Through Vanadyl Ethylene Glycolate (VEG) Decomposition

Shian Guan, Nicolas Penin, Oudomsack Viraphong, Manuel Gaudon*, Aline Rougier**

CNRS, Univ. Bordeaux, Bordeaux INP, ICMCB UMR 5026, Pessac, F-33600, France.

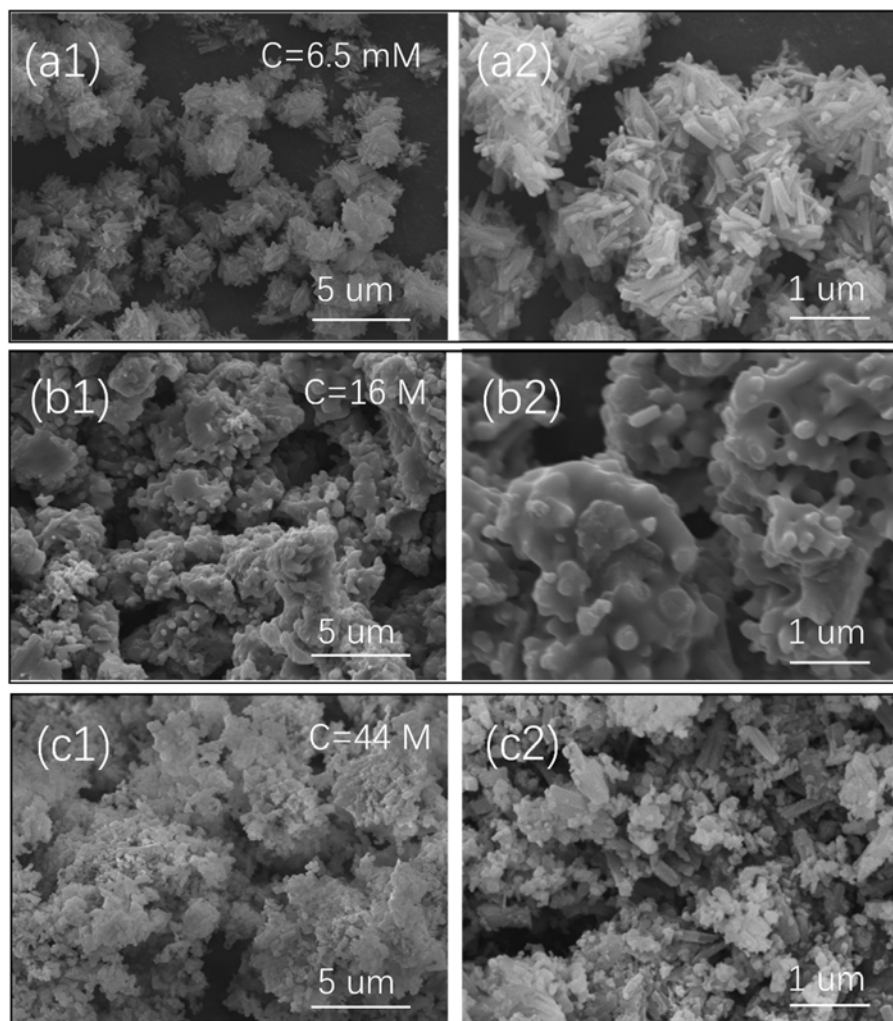


Figure S1. SEM images of VEG-2, synthesized with different concentrations of homemade

V_2O_5 ($C= 6.5, 16$ and 44 mM) in EG.

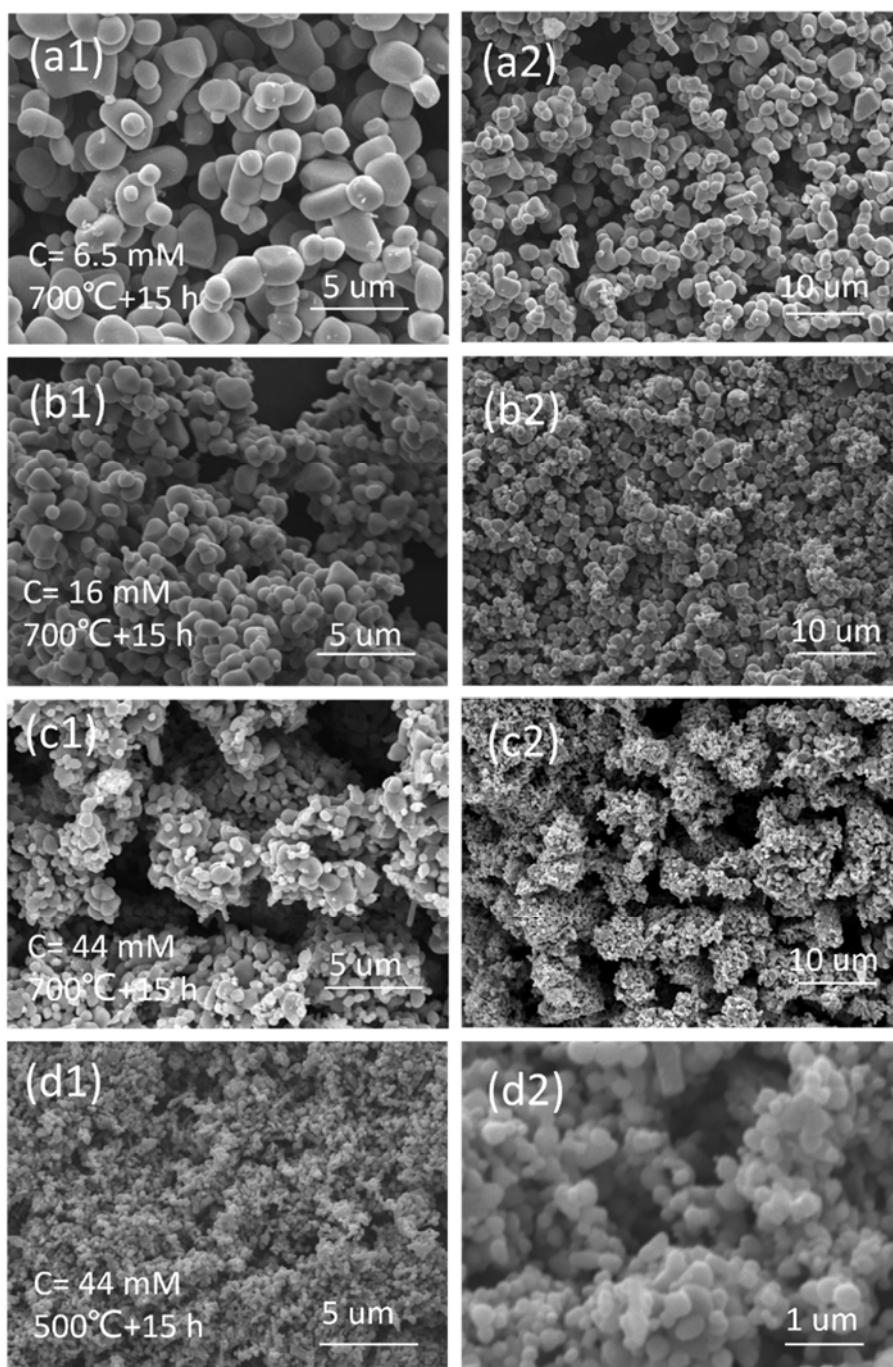


Figure S2. SEM images of VO₂ particles prepared under different conditions (homemade V₂O₅ concentration and annealing temperatures+time) following VEG-2→VO₂ route: (a) C=6.5 Mm, 700°C+15 h; (b) C=16 Mm, 700°C+15 h; (c) C=44 Mm, 700°C+15 h; (d) C=44 Mm, 500°C+15 h.

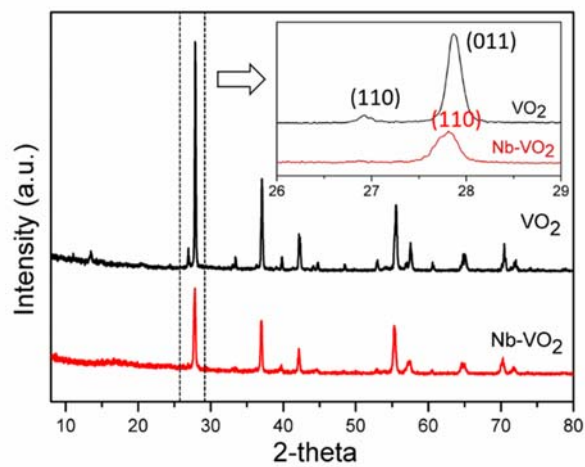


Figure S3. XRD pattern of the pure VO₂ and Nb-doped VO₂ (5.77 at%), synthesized at 700°C for 15 h following VEG-2→VO₂ route; Inset is the enlarged region of 2θ=26-29° displaying the (110), 011) oriented peak of monoclinic VO₂ and (110) peak of rutile VO₂.