

On Demand Rapid Patterning of Colored Amorphous Molybdenum Oxide Painted via a Focused Laser Beam

Lili Gong^a and Sow Chorng Haur^b

^aDepartment of Physics, National University of Singapore, 2 Science Drive 3, Singapore 117542,

^bCenter for Advanced 2D Materials and Graphene Research Center, National University of Singapore, 6 Science Drive 2, Singapore 117546

Correspondence author: Sow Chorng Haur: physowch@nus.edu.sg

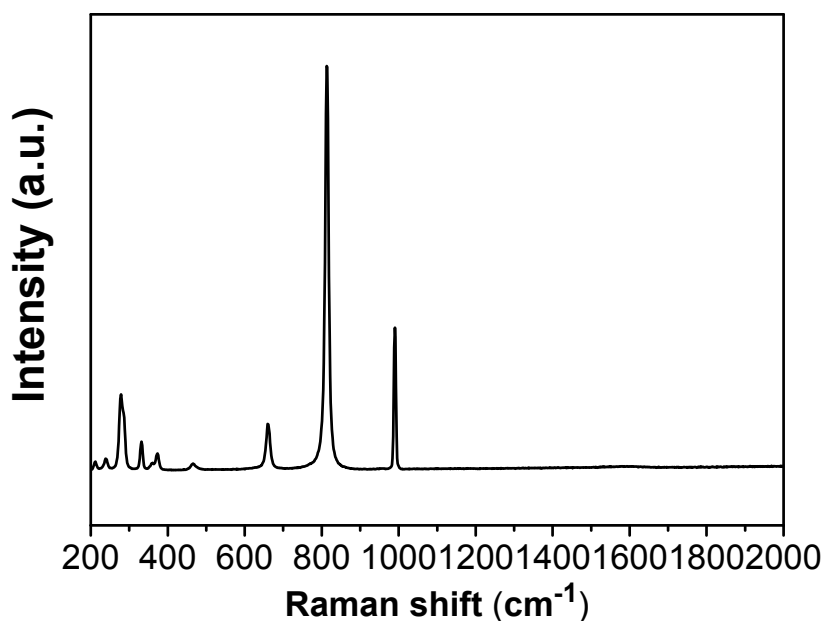


Figure S1. Raman spectroscopy for the white powder obtained by annealing CNT-MoS_x in ambient at 600°C.

After annealing in ambient at 600°C, the black CNT-MoS_x powder turns white. Raman spectroscopy was employed to investigate the composition of the white product. As shown in Figure S1, sharp peaks located at 219 cm⁻¹, 245 cm⁻¹, 290 cm⁻¹, 337 cm⁻¹, 377 cm⁻¹, 666 cm⁻¹, 819 cm⁻¹, 995 cm⁻¹ clearly confirm the composition of the white powder to be MoO₃. This result demonstrates the uniqueness of laser scanning process.