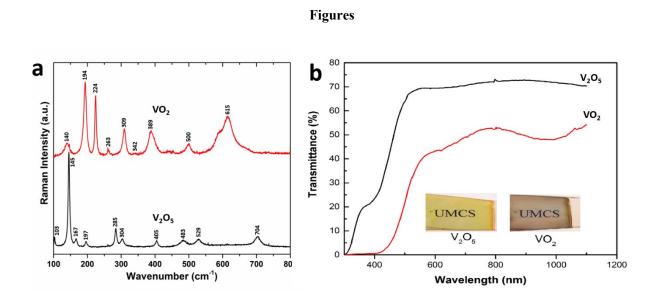
## A pleasant blue-green colored 2D Vanadium dioxide inverse opal monolayer: large area fabrication and its thermochromic application

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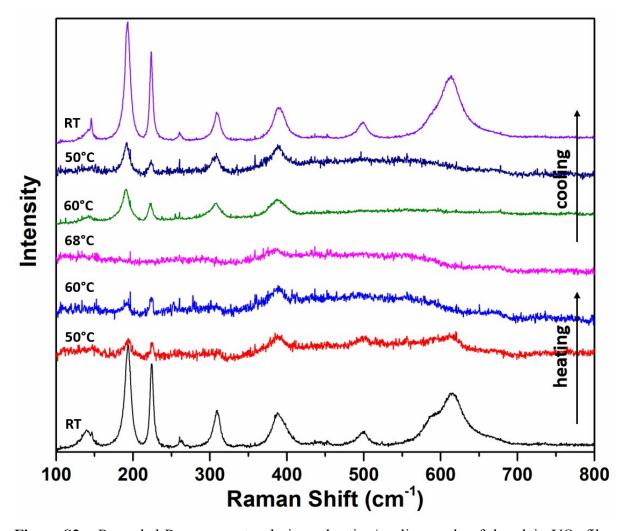


**Figure S1.** Raman spectra (a) and UV-vis NIR transmittance spectra (b) of the plain  $V_2O_5$  and  $VO_2$  films. Inset of Figure S1 (b) shows photographs of the plain  $V_2O_5$  and  $VO_2$  films on ITO substrates.

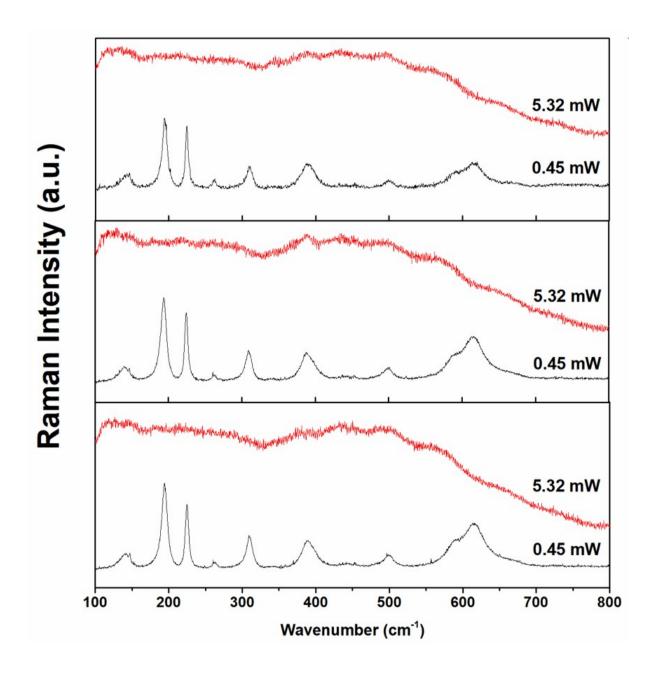
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**Figure S2.** Recorded Raman spectra during a heating/cooling cycle of the plain VO<sub>2</sub> film, showing that the MIT transition is attained at around 68°C.



**Figure S3.** Raman spectra of the plain VO<sub>2</sub> film to test its cycling stability after applying laser stimuli (3 cycles shown).