Contribution ID: **435** Type: **Poster Presentation**

Synthesis of vanadium oxide (VxOy) using CO2 Laser Pyrolysis

Tuesday, 30 June 2015 16:10 (1h 50m)

Abstract content
   (Max 300 words)
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We make use of CO2 Laser Pyrolysis to deposit vanadium oxide on Corning glass using several concentration of precursors. The effect of precursors concentration on the vanadium oxide phases and crystallization has been investigated using XRD, Raman spectroscopy, AFM and SEM. We observed that as the precursor concentration varies the crystallization and the vanadium oxide phases vary as well. Vanadium pentoxide (V2O5) nano-rods and nano-stars like structure were produced after the vanadium oxide films were annealed in atmospheric pressure of Argon at 500oC.

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Session Classification: Poster1

Track Classification: Track A - Division for Physics of Condensed Matter and Materials