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Laser pyrolysis at controlled laser power and wavelength for the synthesis of tungsten oxide nano-structures

This work demonstrates a versatile method known as CO₂-laser pyrolysis which is used to synthesize high purity tungsten oxide thin films and nanostructures from gaseous-phase precursors. The results will show how laser pyrolysis can be used to control the phase and particle size of tungsten oxides by varying the laser power density and wavelength.

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