
Spectroscopy of Photovoltaic Nanocrystalline Co²⁺-doped ZnO Electrodes

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Elucidating the photoinduced charge carriers in transition metal doped semiconductors using optical electronic absorption, photoaction, and magnetic circular dichroism spectroscopy.

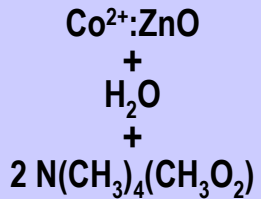
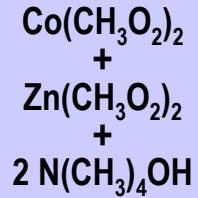


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Research Approach

Synthesis

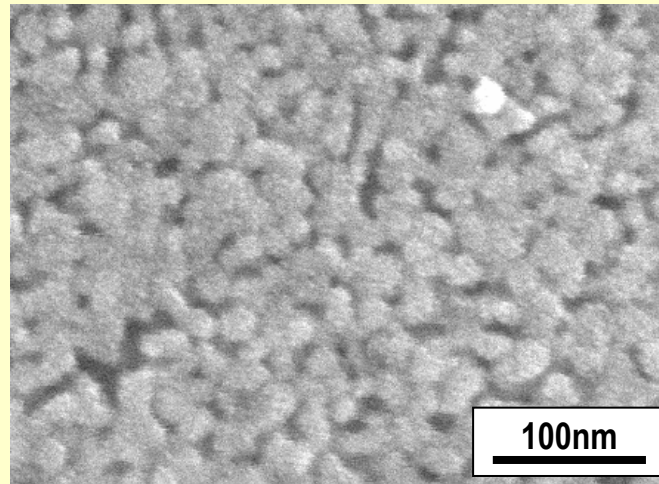
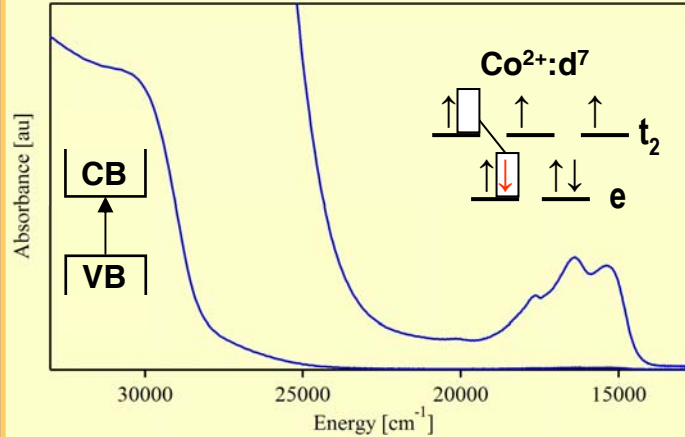


Precipitation and
Washing

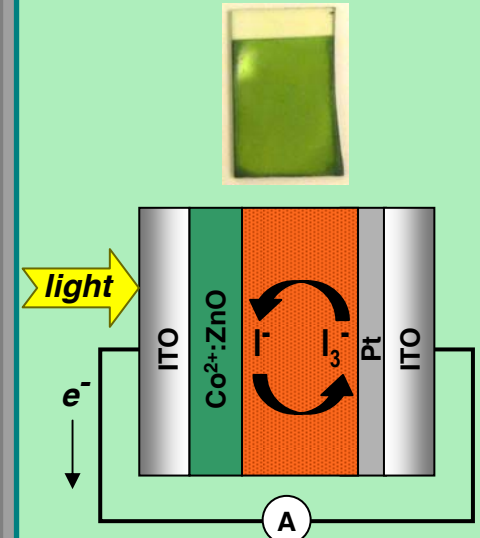


Colloidal solution of
nanocrystalline
 $\text{Co}^{2+}:\text{ZnO}$

Characterization



Cell Fabrication



Accomplishments

