

Materials List for:

# Synthesis of Hierarchical ZnO/CdSSe Heterostructure Nanotrees

Zhengxin Li<sup>1,2</sup>, Jesus Nieto-Pescador<sup>1,2</sup>, Alexander J. Carson<sup>1,2</sup>, Jolie C. Blake<sup>1,2</sup>, Lars Gundlach<sup>1,2</sup>

<sup>1</sup>Department of Chemistry & Biochemistry, University of Delaware

<sup>2</sup>Department of Physics & Astronomy, University of Delaware

Correspondence to: Lars Gundlach at [larsg@udel.edu](mailto:larsg@udel.edu)

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## Materials

Name	Company	Catalog Number	Comments
ZnO	Sigma Aldrich	1314-13-2	
Activated Carbon	Alfa	231-153-3	
CdSe	Sigma Aldrich	1306-24-7	
CdS	Sigma Aldrich	1306-23-6	
Sapphire	MTI	2SP	a-plane, 10 × 10 × 1 mm
Furnace	Lindberg Blue M	SSP	
Scanning electron microscope	Hitachi	S5700	assembled with an Oxford Inca X-act detector
X-ray powder diffractometer	Rigaku	MiniFlex	filtered Cu K $\alpha$ radiation ( $\lambda=1.5418 \text{ \AA}$ )
Amplified Ti:sapphire oscillator	Coherent Mantis	Coherent Legend-Elite	
Single photon detection module	ID Quantique	ID-100	
Sputter coater	Cressington	308	assembled with gold target
Fiber probe spectrometer	Photon Control	SPM-002	
Colored Glass Filter	Thorlabs	FGB37-A - Ø25 mm BG40	AR Coated: 350 - 700 nm
Compressed argon gas	Keen	7440-37-1	