

Sonochemical Growth of Zinc Oxide Nanostructures at Room Ambient

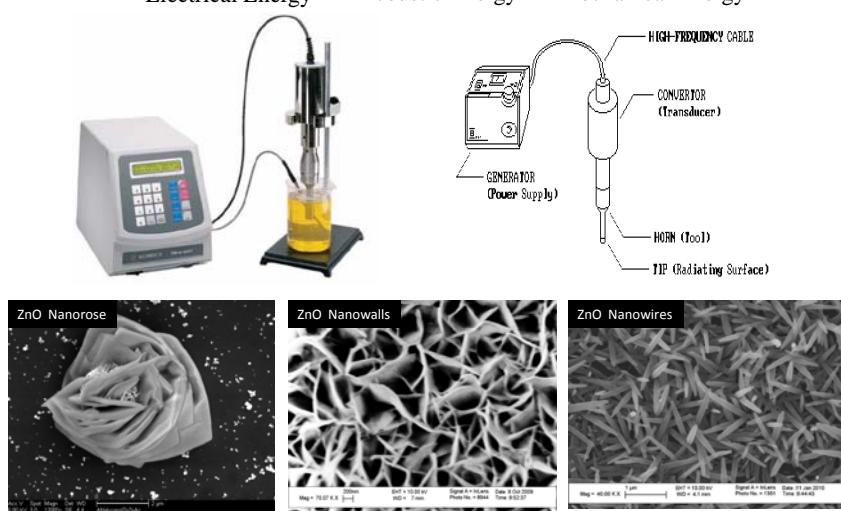
University of California, Davis
Inano (Integrated Nano-devices and Systems Research)
<http://www.ece.ucdavis.edu/inano/>



1

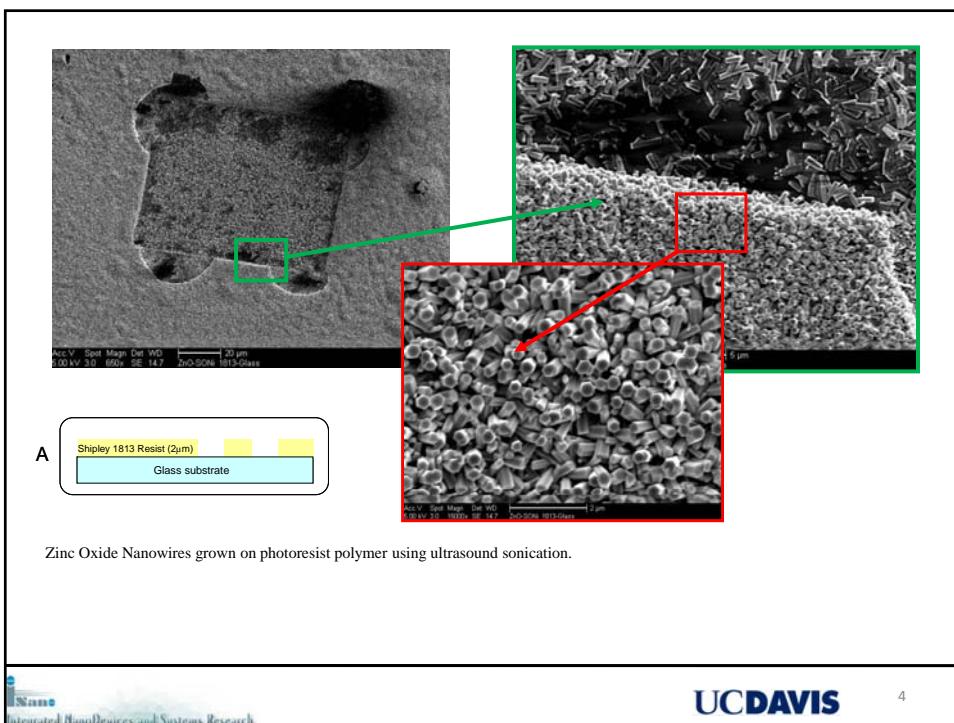
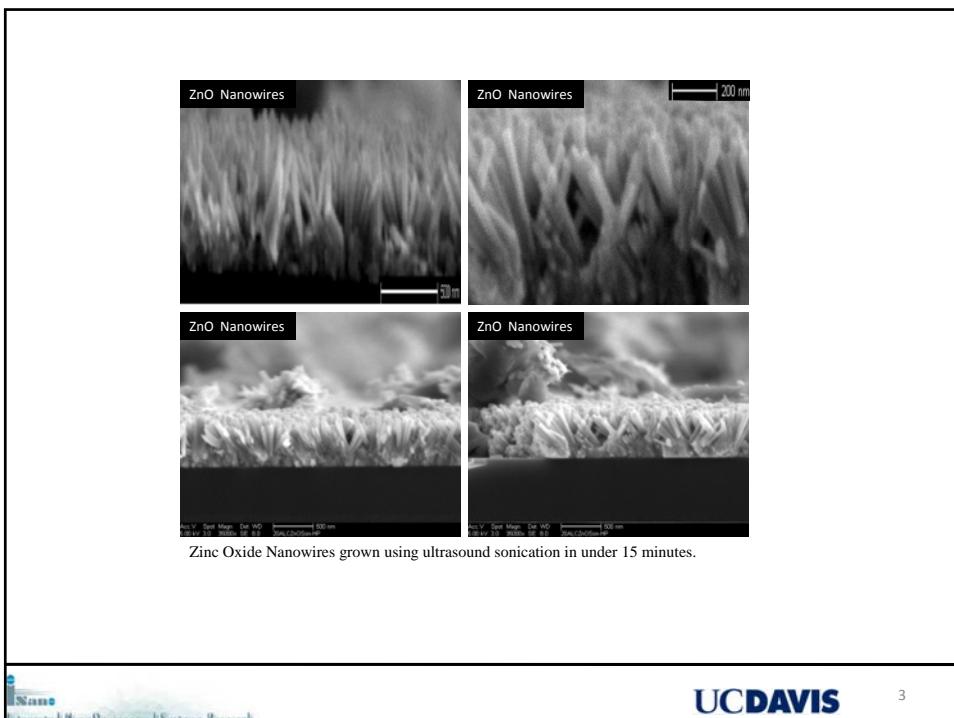
Sonochemistry

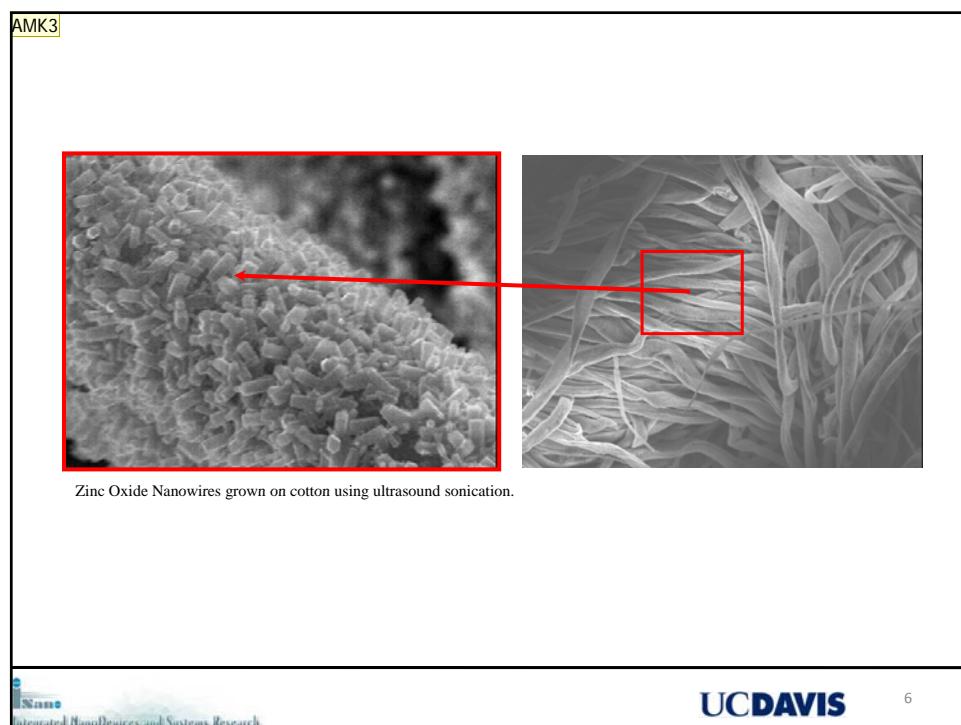
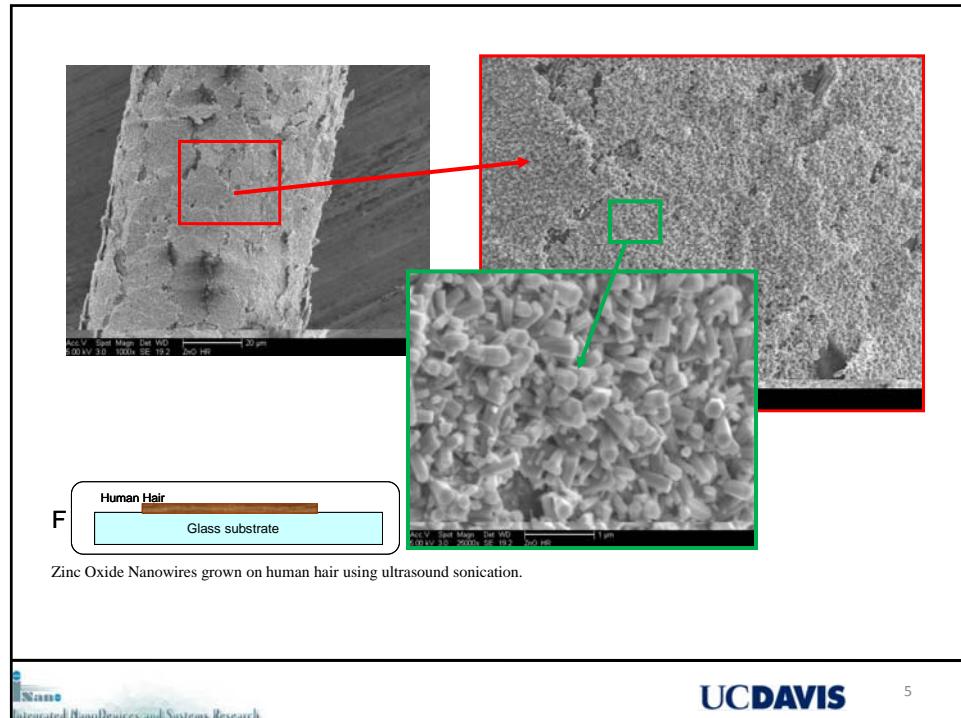
Electrical Energy → Acoustic Energy → Mechanical Energy

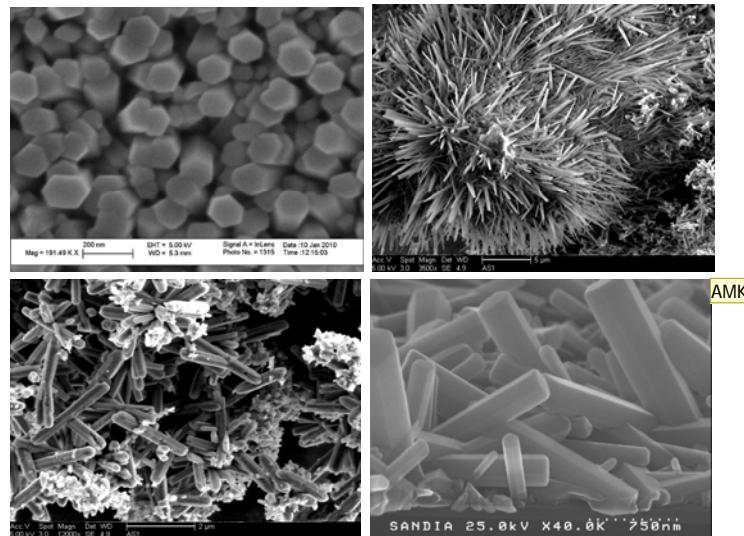


UCDAVIS

2





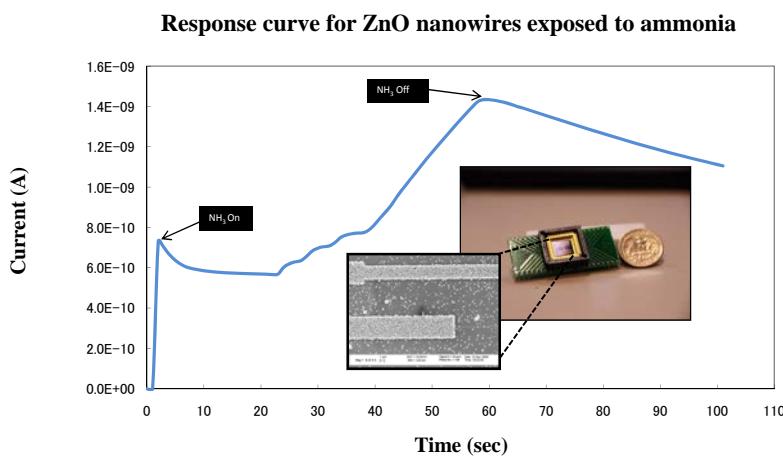


Variation of shape and size of ZnO nanostructures with change in pH level.



7

AMK2



Zinc Oxide Nanowires serving as a gas sensor when exposed to ammonia.



8

Slide 7

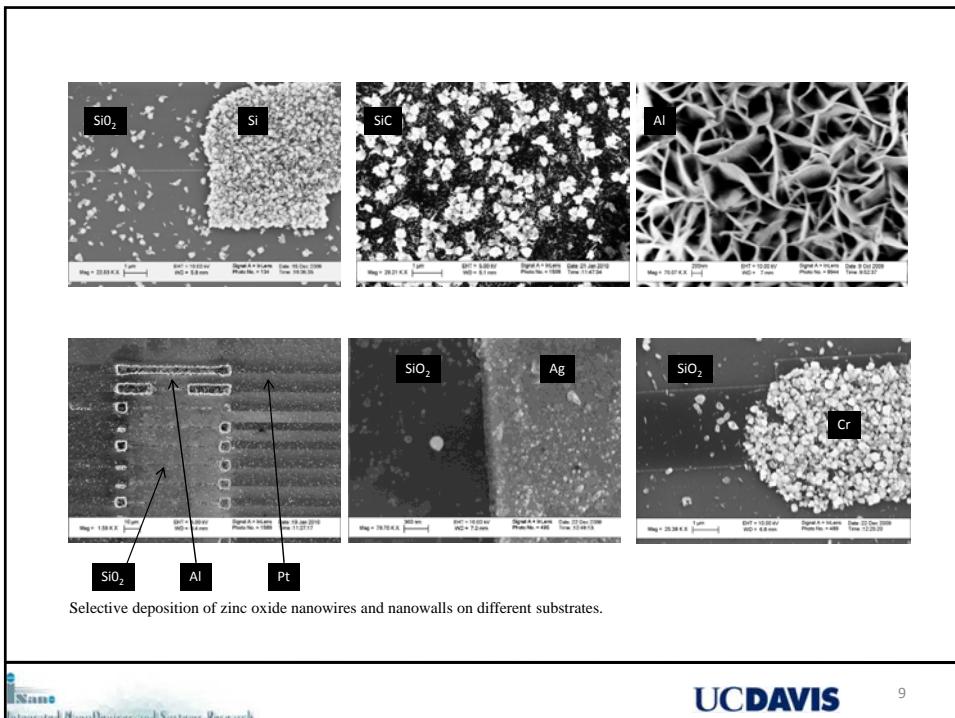
AMK1 Lower right image is not due to a modified pH.

Aaron M. Katzenmeyer, 7/25/2010

Slide 8

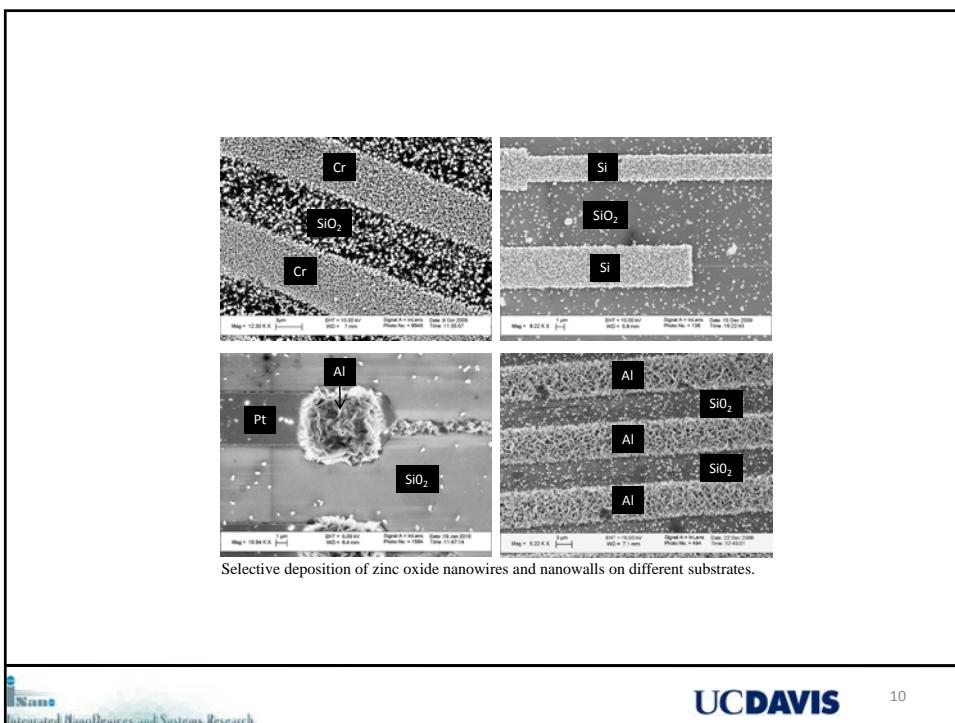
AMK2 It's not clear how what is shown comprises a device. It functions as a varistor as a function of ammonia exposure?

Aaron M. Katzenmeyer, 7/25/2010



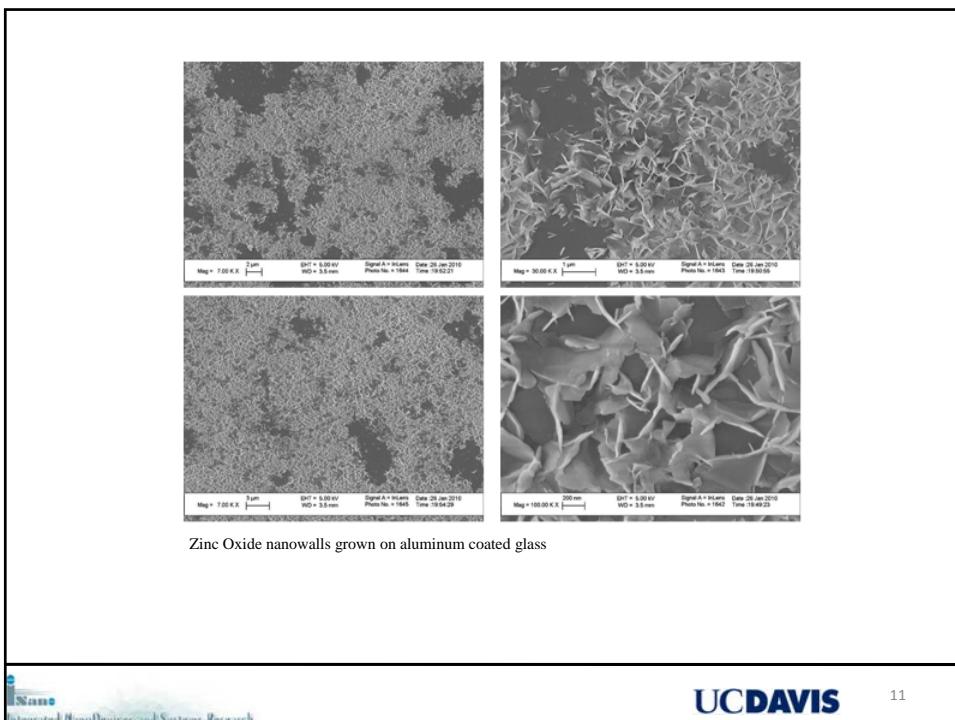
UCDAVIS

9



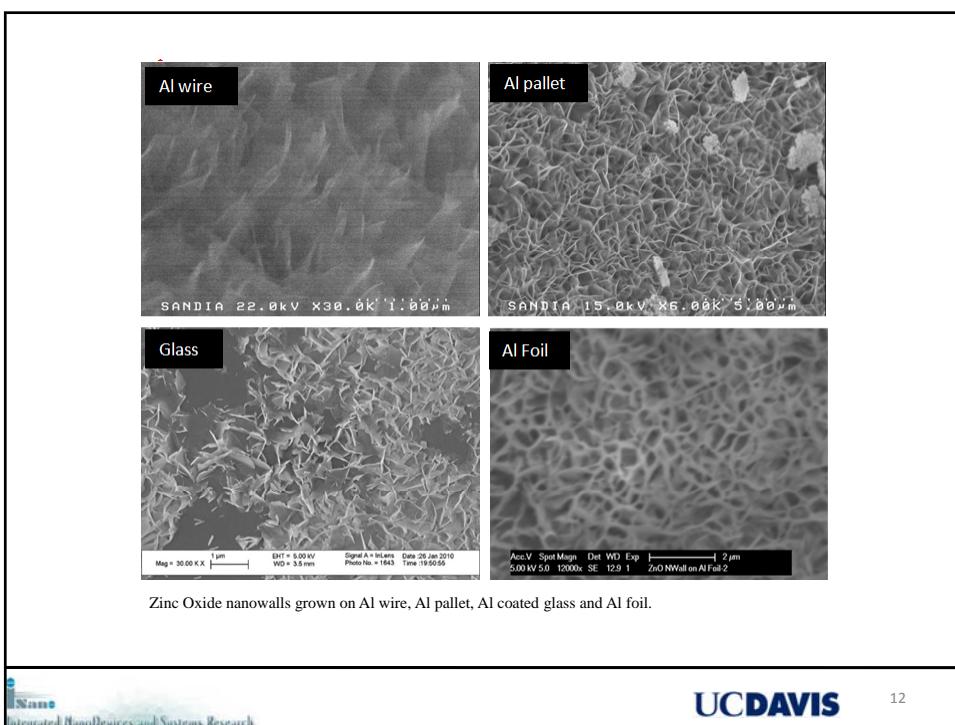
UCDAVIS

10



UCDAVIS

11



UCDAVIS

12

