

## Fabrication and characterization of ultraviolet photosensors from ZnO nanowires prepared using chemical bath deposition method

Ahmed S. Al-Asadi, Luke Alexander Henley, Sujoy Ghosh, Abdiel Quetz, Igor Dubenko, Nihar Pradhan, Luis Balicas, Nestor Perea-Lopez, Victor Carozo, Zhong Lin, Mauricio Terrones, Saikat Talapatra, and Naushad Ali

Citation: *Journal of Applied Physics* **119**, 084306 (2016); doi: 10.1063/1.4942653

View online: <http://dx.doi.org/10.1063/1.4942653>

View Table of Contents: <http://scitation.aip.org/content/aip/journal/jap/119/8?ver=pdfcov>

Published by the [AIP Publishing](#)

---

### Articles you may be interested in

[Ultraviolet photodetector based on  \$Mg\_xZn\_{1-x}O\$  films using plasma-enhanced atomic layer deposition](#)  
*J. Vac. Sci. Technol. A* **34**, 01A141 (2016); 10.1116/1.4938074

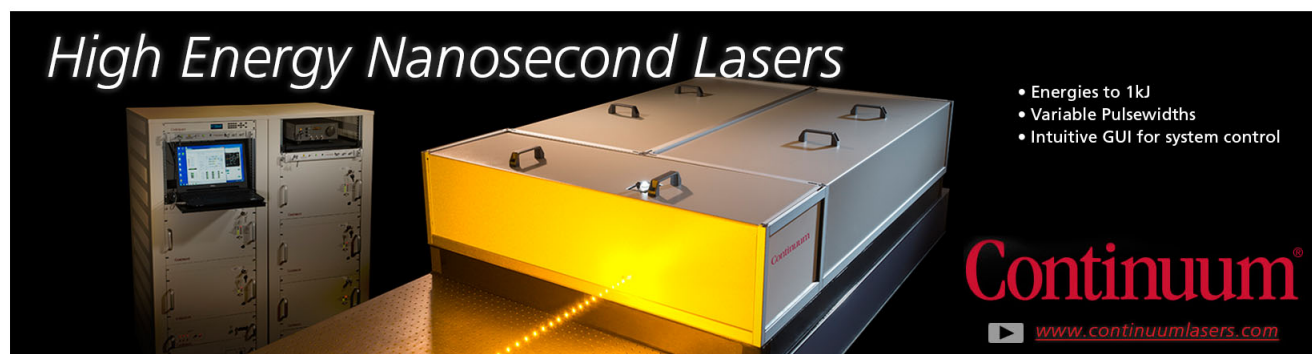
[Opto-electrical properties of Sb-doped p-type ZnO nanowires](#)  
*Appl. Phys. Lett.* **104**, 111909 (2014); 10.1063/1.4869355

[Characterization and modeling of a ZnO nanowire ultraviolet photodetector with graphene transparent contact](#)  
*J. Appl. Phys.* **114**, 234505 (2013); 10.1063/1.4854455

[Chemically synthesized nanowire  \$TiO\_2/ZnO\$  core-shell p-n junction array for high sensitivity ultraviolet photodetector](#)  
*Appl. Phys. Lett.* **103**, 193119 (2013); 10.1063/1.4826921

[All solution processed, nanowire enhanced ultraviolet photodetectors](#)  
*Appl. Phys. Lett.* **102**, 043503 (2013); 10.1063/1.4789757

---

An advertisement for Continuum High Energy Nanosecond Lasers. The image shows a large, industrial-grade laser system with a control panel on the left and a main unit on the right. A bright yellow laser beam is visible at the bottom. The text 'High Energy Nanosecond Lasers' is written in a large, white, serif font at the top left. The Continuum logo is in red at the bottom right, with the website address www.continuumlasers.com below it. A list of features is provided in the top right corner.

*High Energy Nanosecond Lasers*

- Energies to 1kJ
- Variable Pulsewidths
- Intuitive GUI for system control

**Continuum**<sup>®</sup>  
[www.continuumlasers.com](http://www.continuumlasers.com)