

# Yong Soo Cho

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## Education

- 1997 Ph.D. New York State College of Ceramics at Alfred University, NY, USA
- 1991 M.S. Ceramic Engineering, Yonsei University
- 1989 B.S. Ceramic Engineering, Yonsei University

## Professional Career

- 2008 – present Professor, Materials Science and Engineering, Yonsei University
- 2004 – 2008 Associate Professor, Materials Science and Engineering, Yonsei University
- 1998 – 2004 Senior Research Scientist, DuPont, USA

## Research Interest

Ferroelectric, Piezoelectric & Dielectric Materials, Energy Conversion and Storage

## Selected Publication

1. "Experimental Demonstration of *In Situ* Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films with Enhanced Photo-detecting Capability," *Chem. Mater.* **30**, 7776 (2018). (IF 10.159)
2. "Origin of Prestress-Driven Optical Modulations of Flexible ZnO Thin Films Processed in Stretching Mode," *J. Phy. Chem. Lett.* **9**, 5934 (2018). (IF 7.329)
3. "Direct Correlations of Grain Boundary Potentials to Chemical States and Dielectric Properties of Doped CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> Thin Films," *ACS Appl. Mater. Interfaces*, **10**, 16203 (2018). (IF 8.456)
4. "Origin of Abnormal Dielectric Behavior and Chemical States of Amorphous CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> Thin Films on a Flexible Polymer Substrate," *Chem. Mater.*, **29**, 5915 (2017). (IF 10.159)
5. "Enhanced Luminescence Characteristics of Remote Yellow Silicate Phosphors Printed on Nanoscale Surface-Roughened Glass Substrates for White Light-Emitting Diodes," *Adv. Opt. Mater.*, **4**, 1081 (2016). (IF 7.125)
6. "Prestress Driven Improvement in Fracture Behavior of In Situ Sputtered Zinc Oxide Thin Films on Stretched Polymer Substrates," *ACS Appl. Mater. Interfaces*, **7**, 14654 (2015). (IF 8.456)
7. "*In Situ* Magnetic Field-Assisted Low Temperature Atmospheric Growth of GaN Nanowires with Ni Catalyst via the Vapor-Solid-Liquid Mechanism," *ACS Appl. Mater. Interfaces*, **6**, 116 (2014) (IF 8.456)
8. "High Quality Mn-doped (Na,K)NbO<sub>3</sub> Nanofibers for Flexible Piezoelectric Nanogenerators," *ACS Appl. Mater. Interfaces*, **6**, 10576 (2014). (IF 8.456)
9. "Origin of the Enhanced Photovoltaic Characteristics of PbS Thin Film Solar Cells Processed at Near Room Temperature," *J. Mater. Chem. A*, **2**, 20112 (2014). (IF 10.773)