

Recent News on Awards and Honors

- Fellow, American Vacuum Society, 2016.
- Cover page article in *ECS J. Solid State Sci. Technol.*, March 2016.
- Gordon E. Moore Medal of Outstanding Achievement in Solid Science and Technology, ECS, 2015.
- Vice President, Electrochemical Society, Pennington, NJ (05/15-05/18).
- Texas Experimental Engineering Station Fellow (05/2015).
- *IEEE Spectrum* Tech News (12/23/2014). <http://spectrum.ieee.org/tech-talk/semiconductors/devices/meet-the-microscopic-light-bulb>
- Paper ranked #1 most-cited solid state article in *ECS Transactions* as of July 1, 2014. *ECS Trans.* 2006 1(5): 447-454; doi:10.1149/1.2209294
- Innovation Award, Texas A&M University System, College Station, TX (04/25/2014).
- Cover page article in *J. Vac. Sci. Technol. B*, January/February 2014.
- A top 20 Most Downloaded Paper in *J. Vac. Sci. Technol. B* on a new metal-doped High-*k* film, May 2013.
- A Research Highlight paper in *Appl. Phys. Letts.*, February, 2013 on the new type of LED based on thin film metal oxides.
- Distinguished Achievement Award in Research (the most prestigious award that can be presented to faculty), Association of Former Students and Texas A&M University, 04/2012.
- Paper selected to *J. Appl. Phys. Research Highlights & News*, April 19, 2012
C.-C. Lin and Y. Kuo, "Failure mechanism of electromigration of copper interconnections deposited on topographic steps with a plasma-based etch process," *J. Appl. Phys.*, 111, 064909 (2012).
- Paper selected by AIP/APS in *Virtual J. Nanoscale Sci. and Technol.* 24(5) 2011.
C.-H. Lin and Y. Kuo, "Nanocrystalline ruthenium oxide embedded zirconium-doped hafnium oxide high-*k* nonvolatile memories, *J. Appl. Phys.* **110**, 024101 (2011).
<http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=VIRT01000024000005000104000001&idtype=cvips&gifs=yes>
- Paper selected by AIP/APS in *Virtual J. Nano. Science & Technology* 22(22) 2011.
C.-H. Yang, Y. Kuo, C.-H. Lin, and W. Kuo, "Temperature Influence on Nanocrystals Embedded High-*k* Nonvolatile C–V Characteristics," *Electrochem. Solid-State Lett.* **14**, H50 (2010).

<http://scitation.aip.org/vsearch/servlet/VerityServlet?KEY=VIRT01&mode=results&maxdisp=10&possible1=Yue+Kuo&possible1zone=article&OUTLOG=NO&id=ESLEF6000014000001000H50000001&viewabs=VIRT01&key=DISPLAY&docID=1&page=0&chapter=0>

- Honorary Visiting Professor, Shanghai Jiaotong University, 12/2009.
- Honorary Visiting Professor, Nankai University, 07/2009.
- Honorary Visiting Professor, Xi'an Jiaotong University, 05/2009.
- Top 20 most downloaded paper, J. J. Appl. Phys., 2008.
Y. Kuo, "TFT and ULSIC – Competition or Collaboration," *Jpn. J. Appl. Phys.*, **47**(3), 1845-1852 (2008).
<http://www.ipap.jp/jjap/index.htm>
- Above paper was also selected by AIP/APS in *Virtual J. Nano. Science & Technology* 17(21) 2008.
<http://scitation.aip.org/vsearch/servlet/VerityServlet?KEY=VIRT01&mode=results&maxdisp=10&possible1=Yue+Kuo&possible1zone=article&OUTLOG=NO&id=JAPNDE000047000003001845000001&viewabs=VIRT01&key=DISPLAY&docID=2&page=0&chapter=0>
- Paper selected by AIP/APS in *Virtual J. Nanoscale Sci. and Technol.* 17(17) 2008.
J. Lu, C.-H. Lin, and Y. Kuo, "Nanocrystalline Zinc Oxide Embedded Zirconium-doped Hafnium Oxide for Nonvolatile Memories," *J. Electrochem. Soc.*, 155(6) H386-H389 (2008).
<http://scitation.aip.org/dbt/dbt.jsp?KEY=VIRT01&Volume=CURVOL&Issue=CURISS>
- Paper selected by AIP/APS in *Virtual J. Bio. Phys. Res.* 15(10), 2008.
H. H. Lee and Y. Kuo, "Surface Modification of Gel-Free Microchannel Surface Electrophoresis Device for DNA Identification," *Jpn. J. Appl. Phys.* 47, 2300 (2008).
<http://www.vjbio.org/vsearch/servlet/VerityServlet?KEY=VIRT02&mode=results&maxdisp=10&possible1=Yue+Kuo&possible1zone=article&OUTLOG=NO&id=JAPNDE000047000040023000000001&viewabs=VIRT02&key=DISPLAY&docID=1&page=0&chapter=0>
- 3rd award of ECI Semiconductor Conference poster papers, Barga, Italy, 2007.
H. Nominanda, Y. Kuo, C.-C. Chen, and C.-C. Hwang, "Radiation Exposure Effect on Amorphous Silicon Thin Film Transistors," *ECS Trans.*, 8(1), 261-266 (2007).

- Electrochemical Society Electronics and Photonics Division award, 2007.
- IEEE Electron Device Society Distinguished Speaker, 2007-present.
- Top 25 Hottest paper in *Microelectronics Reliability*, Jan.-March 2006.
S. Chatterjee, Y. Kuo, J. Lu, J.-Y. Tewg, and P. Majhi, "Electrical Reliability Aspects of HfO₂ High-k gate Dielectrics with TaN Metal Gate Electrodes under Constant Voltage Stress," *Microelectronics and Reliability*, **46**(1), 69-76 (2006).
http://top25.sciencedirect.com/index.php?cat_id=7&subject_area_id=7&journal_id=00262714.
- Paper selected by AIP/APS in *Virtual J. Nanoscale Science & Technology* **13**(15), 2006.
H. H. Lee and Y. Kuo, "Integration of an Amorphous Silicon Thin Film Transistor with a Microchannel Electrophoresis for Protein Identification," *Electrochemical and Solid-State Letters* **9**, J21-J23 (2006).
<http://scitation.aip.org/dbt/dbt.jsp?KEY=VIRT01&Volume=13&Issue=15>
- Above paper was also selected by AIP/APS in *Virtual J. Bio. Phys. Res.* **11**(8), 2006.
<http://www.vjbio.org/vsearch/servlet/VerityServlet?KEY=VIRT02&smode=results&maxdisp=10&possible1=Yue+Kuo&possible1zone=article&OUTLOG=NO&id=ESLEF6000009000006000J21000001&viewabs=VIRT02&key=DISPLAY&docID=2&page=0&chapter=0>
- Fellow, Texas Engineering Experiment Station, 09/2005.
- Fellow, Electrochemical Society, 1999.
- Fellow, IEEE Electron Devices Society, 1998.

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