

**Roland B. Snow Award for 'Best in Show' - 2012**  
**"Green MXene Turtle"**

**Babak Anasori, Michael Naguib, Yury Gogotsi, and Michel Barsoum**  
**Department of Materials Science and Engineering, and**  
**A.J. Nanotechnology Institute**  
**Drexel University, Philadelphia, PA 19104, USA**

**Category – Scanning Electron Microscopy**

1<sup>st</sup> Place: "Green MXene Turtle"

Babak Anasori, Michael Naguib, Yury Gogotsi, and Michel Barsoum  
Department of Materials Science and Engineering, and A.J. Nanotechnology Institute  
Drexel University, Philadelphia, PA 19104, USA

2<sup>nd</sup> Place: "Desert Weeds"

Jon Ihlefeld and Bonnie McKenzie  
Sandia National Laboratories  
Albuquerque, NM

3<sup>rd</sup> Place: "Graphene Snowflakes"

Dean Miller  
Argonne National Laboratory  
Argonne, IL

**Category: Scanning Probe Microscopy**

1<sup>st</sup> Place: "Nanoscale Insight into Lead-Free Piezoceramics"

Robert Dittmer<sup>1</sup>, Wook Jo<sup>1</sup>, Jürgen Rödel,<sup>1</sup> Sergei Kalinin,<sup>2</sup> and Nina Balke<sup>2</sup>  
<sup>1</sup>Institute of Materials Science (TU Darmstadt)  
Petersenstr. 23, Darmstadt, Germany 64287  
<sup>2</sup>Center for Nanophase Materials Sciences, Oak Ridge National Laboratory  
Oak Ridge, TN 37831

2<sup>nd</sup> Place: "Liquid Piezoresponse Force Microscopy"

N. Balke, A. Tselev, T.M. Arruda, S. Jesse, and S. V. Kalinin  
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory  
Oak Ridge, TN 37831

3<sup>rd</sup> Place: "Nanoscale Lithium Anodes"

T.M. Arruda, A. Kumar, S. V. Kalinin, and S. Jesse  
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory  
Oak Ridge, TN 37831

**Category: Optical Microscopy**

**1<sup>st</sup> Place: “Crystalline Moonrise”**

John A. Nychka

Chemical and Materials Engineering, University of Alberta  
Edmonton, Alberta, Canada T6G2V4

**2<sup>nd</sup> Place: “Cubes & Maltese Crosses”**

John A. Nychka

Chemical and Materials Engineering, University of Alberta  
Edmonton, Alberta, Canada T6G2V4

**3<sup>rd</sup> Place: “Domain Structures in a Large-grain Lead Titanate Ferroelectric Ceramic”**

L.A. Boatner, J.O. Ramey, and H. Longmire

Oak Ridge National Laboratory, Oak Ridge, TN 37831

**Category: TEM and STEM**

**1<sup>st</sup> Place: “Hf Atomic Terraces at Alumina Grain Boundaries”**

Qian Wu, Zhiyang Yu, Wanjun Cao, H.M. Chan, J.M. Rickman, and M.P. Harmer  
Lehigh University, Bethlehem, PA

**2<sup>nd</sup> Place: “Batman Returns From Reciprocal Space”**

Zhiyang Yu, Qian Wu, Wanjun Cao, H.M. Chan, J.M. Rickman, and M.P. Harmer  
Lehigh University, Bethlehem, PA

**3<sup>rd</sup> Place: “The Building Blocks of Nanotechnology – How tall can you get?”**

Jorgen F. Rufner, Cecile Bonifacio, Gautom Das, Ian M. Kennedy, Ricardo H.R. Castro,  
and Klaus van Benthem

University of California – Davis, Davis, CA