

## Huang Jianyu Bio

Dr. Jianyu Huang received his Ph. D. from the Institute of Metal Research, Chinese Academy of Sciences in 1996. He then moved to Japan as a COE (Center-of-Excellence) Fellow and a JSPS (Japanese Society for the Promotion of Science) Fellow. From 1999 to 2001, he worked at Los Alamos National Lab. as a postdoc, and from 2002 to 2006 he was a research faculty at the Physics Department of Boston College. Huang was a principle staff scientist at the Center for Integrated Nanotechnologies at Sandia National Laboratories from Oct. 2006 to April 2012.

He has been working in the area of electron microscopy and its applications in materials science for over 20 years. His current interests focus on in-situ studies of lithium ion batteries, and structure/property correlation of nanomaterials. He is also interested in developing micro-electro-mechanical system (MEMS) devices to enable in-situ thermal/thermoelectric, and electrochemical (battery) studies. Huang's research goal is to understand how the structure, size, defects and surface affect the electron, phonon, ion, and mass transport processes in nanomaterials.

He has published 210 peer reviewed journal papers, including: **Nature**, **Science**, **Physical Review Letters**, **Nature Nanotechnology**, **Nature Communications**, **Nature Methods**, **PNAS**, **Nano Letters**, **ACS Nano**, **Advanced Materials**. He has given over 90 invited talks in a number of academic conferences. According Google Scholar, Huang's h-index is 76, his total citation is above 20000.

## **Huang Jianyu Bio**

Dr. Jianyu Huang received his Ph. D. from the Institute of Metal Research, Chinese Academy of Sciences in 1996. He then moved to Japan as a COE (Center-of-Excellence) Fellow and a JSPS (Japanese Society for the Promotion of Science) Fellow. From 1999 to 2001, he worked at Los Alamos National Lab. as a postdoc, and from 2002 to 2006 he was a research faculty at the Physics Department of Boston College. Huang was a principle staff scientist at the Center for Integrated Nanotechnologies at Sandia National Laboratories from Oct. 2006 to April 2012. He has been working in the area of electron microscopy and its applications in materials science for over 20 years. His current interests focus on in-situ studies of lithium ion batteries, and structure/property correlation of nanomaterials. He has published 230 peer reviewed journal papers and presented over 100 invited talks in a number of academic conferences. According to Google Scholar, Huang's h-index is 80, his total citation is above 20000.