



5th International Symposium on
Energy **C**hallenges & **M**echanics
- working on small scales

10-14 July 2016
Inverness, Scotland, UK

Invited Speaker of Session 04

GRAPHENE-BASED NANOTECHNOLOGY FOR ENERGY APPLICATIONS



Dr. Jun Jiao holds an M.S. in Physics and a Ph.D. in Materials Science and Engineering from the University of Arizona and is currently a professor of Mechanical & Materials Engineering and Physics. She is also the Director of the Center for Electron Microscopy and Nanofabrication at Portland State University (PSU).

Dr. Jiao's principal research interests are focused on nanoscale materials and devices, electron microscopy, and characterization techniques. Current research in the Jiao lab is concentrated on the development of nanofabrication techniques for the property-controlled growth of graphene and its metal and metal oxide hybrids, nanotubes, nanowires, and nanocrystals for use in nanoelectronic devices and in industrial catalysts for ground water treatments. Another important effort is to use nanoscale materials and devices for biomedical applications including cancer therapy, cancer vaccine, and adjuvant for infectious diseases. The results of her nanomaterials research are documented in more than 200 publications and five issued patents.

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