

# 中南大学“名师名家学术论坛”

—— Prof. Jin Zou (University of Queensland, Australia)

**题目:** High Thermoelectric Performance of Nanostructured Metal Chalcogenides

**时间:** 2016年9月27日(星期二)下午2:30

**地点:** 资源加工与生物工程学院三楼松韵厅

## Jin Zou (邹进)教授简介:

Professor Jin Zou is the Chair of Nanoscience in the University of Queensland. He gained his BSc (1982) and MEng (1985) from the University of Science and Technology, Beijing. Under supervision by Prof. K.H. Kuo and F.H. Li (both were academia of Chinese Academy of Sciences), he entered the field of electron microscopy. From 1985, he helped to establish the Beijing Lab of Electron Microscopy, which has been the flagship electron microscopy laboratory in China. In 1989, he went to Sydney University to earn his PhD under the supervision of Prof. D.J.H. Cockayne (a world leader in electron microscopy and was a FRS fellow). From then, he has been engaged his research in understanding the semiconductor nanostructures using electron microscopy. He gained a PhD with Materials Physics Major in 1993 from Sydney University and worked there for 10 years with various prestigious fellowships, including Australian Research Council's Postdoctoral Fellowship and Queen Elizabeth Second Fellowship. In the second half of 2003, he moved to the University of Queensland and continued his research in the field of semiconductor nanostructures, where advanced electron microscopy is an essential tool. In 2009, he has been awarded an Australian Research Council's Future Fellowship.



Over the year, he managed nearly 30 projects funded by the Australian Federal Government or the Queensland Government. His current research is focused on the understanding of formation mechanism of the semiconductor nanostructures and their demonstrated properties by correlating their growth and demonstrated properties with their morphological, structural and chemical characteristics (determined by electron microscopy); formation of high-performance functional nanomaterials and their advanced applications, particular in the fields of Energy, Environmental Protection, and Medical Diagnosis. So far, he published over 570 SCI papers with most of them published in leading international journals, which have attracted over 13000 citations and led to an H-index of 57.

Prof. Zou was the Secretary of the Australian Microscopy and Microanalysis Society (2010-2104). He is now a Vice President of *The Federation of Chinese Scholars in Australia*, and the Council Chair of *Queensland Chinese Association of Scientists and Engineers*. For many years, he has been engaged in developing research collaborations between Australia and leading Chinese universities.