

台灣女科技人群像簡介

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主 要 學 歷	清華大學材料科學與工程系 學士 UCLA MSE 博士	
簡 要 經 歷	<p>Yi-Chia Chou received her B.Sc. degree in Materials Science and Engineering from National Tsing Hua University, Hsinchu, Taiwan, in 2006, and Ph.D. degree from University of California at Los Angeles in 2010. Her Ph.D. research focused on nucleation and growth of nanoscale silicides by point contact reactions using <i>in situ</i> high resolution transmission electron microscopy (TEM). She was awarded UCLA Graduate Fellowship, Dissertation Fellowship and TSMC Outstanding Graduate Student Award for her thesis work. Since the summer of 2010, she was a postdoctoral Research Scientist at IBM T. J. Watson Research Center and co-affiliated as a Guest Scientist in Electron Microscopy Group at Brookhaven National Lab. Her postdoctoral research includes <i>in situ</i> controlled growth of Si/Ge heterojunction nanowires using novel catalysts, and UHVTEM and Cs-corrected ETEM growth of nanowires. She was awarded Presidential Postdoctoral Award from Microscopy Society of America for her work at IBM and BNL. She joined Department of Eletrophysics at National Chiao Tung University, Hsinchu, Taiwan since August 2012.</p>	
目前研究主題	<p>My research interests on condensed matter physics include the formation and microstructure of nano materials and <i>in situ</i> high resolution transmission electron microscopy (TEM) of nanoscale reactions to understand in real time and at high spatial resolutions both nanoscale processing methods as well as nanosystem reliability. Currently I concentrate on nanoscale reactions and kinetic theories of low dimensional metal and semiconductor materials using Cs-corrected TEM. The atomic-level details of the events of nucleation and growth as well as atom migration during solid state chemical reactions can be examined directly. The theoretical models can be applied to understand the measurements made from the data. The aim is to achieve progress in these technologically-important areas through a detailed atomic-level understanding</p>	

	of chemical reaction kinetics and to integrate basic science and applications in areas of nanomaterials and opto/electronics.
專 長 領 域	固態動力學、電子顯微鏡學、低維度奈米結構成長
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