


## Brief CV

<b>Name</b>	Yue-Min Wan	中文名	萬裕民	
<b>Gender</b>	Male	<b>Title</b> (Pro./Dr.)	Dr.	
<b>Position</b> (President...)	Professor	<b>Country/ Region</b>	ROC/Taiwan	
<b>University/ Department</b>	I-Shou Univ./Electronic Engineering			
<b>Personal Website</b>	Under construction			
<b>Research Area</b>	Nano electronics devices and physics			

**Brief introduction of your research experience:**

My research career can be classified into three periods. In the first phase of 1988 -1994 for Ph.D., my research was focused on the development of interlayer Josephson current in layered high Tc BSCCO crystals. In the second period of 1995-2000, my research has shifted toward the development of microelectromechanical devices (MEMS), and the engineering of devices such as micro-flow meter and mechanical module, nano-bio chip and sensors.

In the recent period of I-Shou univ. from 2000 to now, I have been working on the design and fabrication of various silicon quantum dot transistors. The devices made includes in-plane high gate-dot coupling transistor that has the strongest  $\alpha$  of 0.6 (2004-2005). In the mean times, the vertical version – nanopillar transistor was invented to prove its accessibility at 300 K. Soon later (2006), two closely coupled quantum dot transistor were made to display the mutual interference of two electrons (excitons).

Lately, my studies has been focused on the realization of “*Artificial atom*”, which was known a long time mystery that had puzzled scientists for more half a century. Fortunately, under the assistance of the Taiwan Semiconductor Research Institute (TSRI), the first demonstration of “*Artificial atom*” is fulfilled on two high quality and high symmetry nanopillar transistors. This work is expected to be published in the journal of *Nature Communication*.

**\*\*\*\*\*All the columns need to be filled in.**