

Brief CV

Name	Yee-wen Yen	中文名	顏怡文	
Gender	Male	Title (Pro./Dr.)	Professor	
Position (President...)	Chairman	Country/ Region	Taiwan	
University/ Department	Department of Materials Science and Engineering, National Taiwan University of Science and Technology			
Personal Website				
Research Area	Phase equilibria, Lead-free solders, Thermodynamics, Electronic Packaging, CALPHAD (Calculation of phase diagram-by using "Panda"), Bulk Metallic Glass (BMG), High Entropy Alloys (HEAs)			
Brief introduction of your research experience:				
<p>I focus on the interfacial reactions, phase equilibria, inter-diffusion, surface morphologies and reaction paths in views of thermodynamics and kinetics. The systems I study include lead-free solders and substrates or interconnect materials in solid-oxide-fuel-cell (SOFC), such as Sn-Ag-Cu, Sn-Zn-Ag, Sn-Cu-Au, or Fe-Cr-Ni, etc. Besides these research topics, I also concern the phase equilibria among material systems I mention above. By experimental methods and calculations with Panda, I try to establish the thermodynamics database of different material systems. I also try to develop a novel method to synthesize carbon nanotubes (CNTs). Due to my former work experience, I investigate the thermal stability between thin films in TFT-LCD, especially for a Cu metallization case. Meanwhile, I also interest in CALPHAD (Calculation of Phase Diagram) method to predict the Bulk Metallic Glass (such as Zr-based and Cu-based systems) and High Entropy Alloys.</p>				

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