Prof. Ten-Chin Wen

溫添進 教授

Ph.D.： Department of Chemical Engineering, Lamar University

Email： tcwen@mail.ncku.edu.tw
Phone： 886-6-2757575 ext 62656
Office： Room No.93913 (9F)

Research Interests

1. **Surface enhanced Raman scattering (SERS):**

   A. Fabricating novel nanostructured SERS substrates for high biomaterial detection and selection B. Electrical field simulation for designing high performance SERS substrates C. Synthesis of novel antifouling materials for fabricating biocompatible SERS substrates

2. **Inorganic/organic optoelectronic devices:**

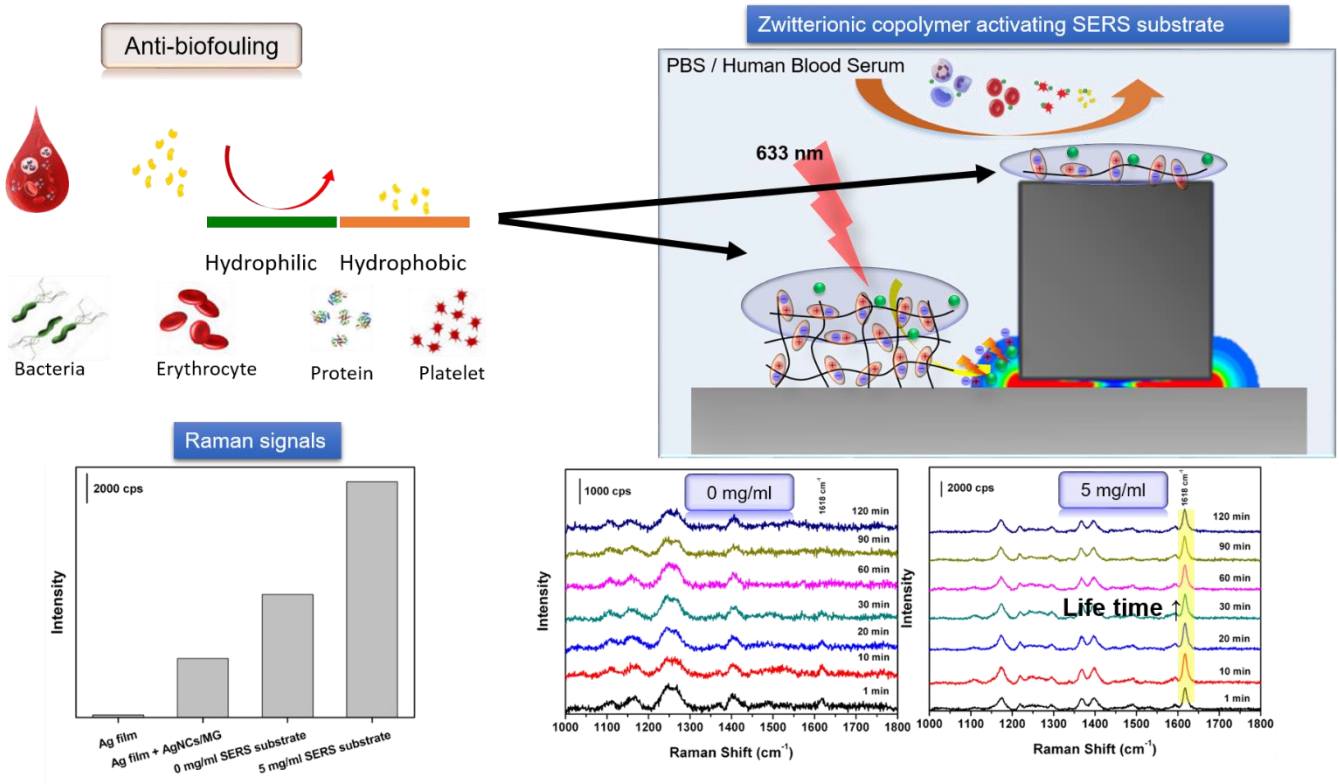
   A. High efficient and stable perovskite/organic solar cells via interfacial modification B. Solution process inorganic/organic optoelectronic devices for large area production C. Novel multifunctional interfacial layers for high efficient polymer light-emitting diodes

Representative Publications

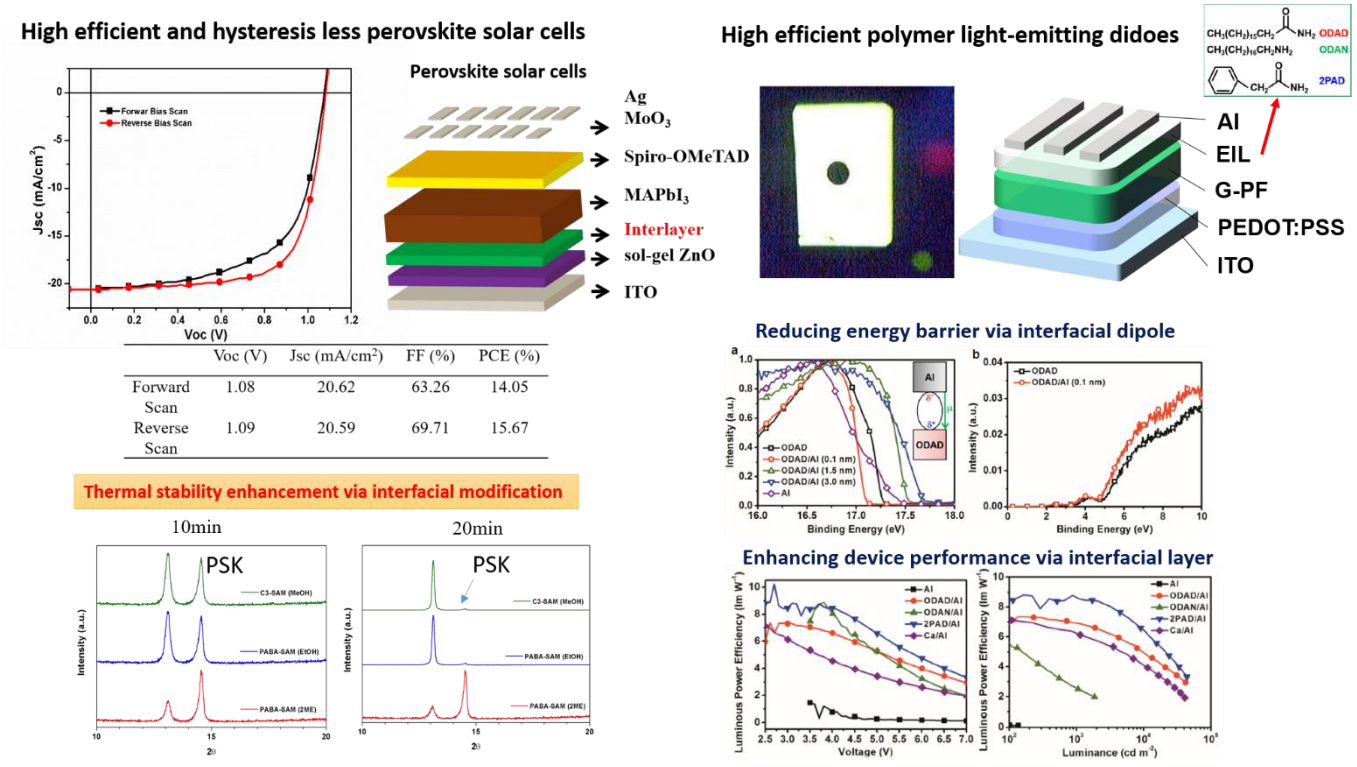
1. C. H. Wu, K. W. Tsai, W. J. Huang, C. Y. Wu, T. Y. Chen, T. F. Guo, Y. J. Hsu and T. C. Wen, Adv. Mater. Inter., 2016. (In Press)
2. K.-W. Tsai, C.-C. Chueh, S. T. Williams, T.-C. Wen and A. K. Jen, J. Mater. Chem. A, 2015, 3, 9128-9132.
3. Y.-N. Chou, Y. Chang and T.-C. Wen, ACS applied materials & interfaces, 2015, 7, 10096-10107.
4. S.-C. Cheng, T.-C. Wen and Y.-C. Lan, RSC Advances, 2014, 4, 44457-44461.
5. S.-C. Cheng and T.-C. Wen, Mater. Chem. Phys., 2014, 143, 1331-1337.
6. C.-H. Wu, C.-Y. Chin, T.-Y. Chen, S.-N. Hsieh, C.-H. Lee, T.-F. Guo, A. K.-Y. Jen and T.-C. Wen, J. Mater. Chem. A, 2013, 1, 2582-2587.

1. Surface enhanced Raman scattering (SERS):

In vitro Detection of Biomolecular via SERS



2. Inorganic/organic optoelectronic devices:



	Voc (V)	Jsc (mA/cm^2)	FF (%)	PCE (%)
Forward Scan	1.08	20.62	63.26	14.05
Reverse Scan	1.09	20.59	69.71	15.67