

**Personal Information**

Full name	Hao-Wu Lin	
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**Short Biography**

Hao-Wu Lin graduated from National Taiwan University in 2002 with a bachelor degree in electrical engineering. He received his Ph.D. degree from graduate institute of photonics and optoelectronics, National Taiwan University in 2007. After his Ph.D. study and military service, he joined AU Optronics Corp. for research and development on organic light emitting displays. In 2009, he joined the faculty of National Tsing-Hua University in the department of materials science and engineering. His current research interests include organic semiconductors for optoelectronic and electronic devices, next-generation photovoltaics, flat panel displays, and nano science and technologies.

**Representative publications:**

- C.-Y. Chen, J.-H. Chang, K.-M. Chiang, H.-L. Lin, S.-Y. Hsiao, H.-W. Lin\*, "Perovskite Photovoltaics for Dim-Light Applications", *Adv. Funct. Mater.* **25**, 7064 (2015).
- Y.-J. Shiau, K.-M. Chiang, H.-W. Kang, H.-W. Lin\*, "Performance Enhancement of Metal Nanowire-based Transparent Electrodes by Electrically Driven Nanoscale Nucleation of Metal Oxides", *Nanoscale*, **7**, 12698 (2015).
- J.-H. Chang, K.-M. Chiang, H.-W. Kang, W.-J. Chi, J.-H. Chang, C.-I. Wu, H.-W. Lin\*, "Solution-Processed Molybdenum Oxide Treated Silver Nanowire Network: A Highly Conductive Transparent Conducting Electrode with Superior Mechanical and Hole Injection Properties", *Nanoscale*, **7**, 4572 (2015).
- C.-W. Chen, H.-W. Kang, S.-Y. Hsiao, P.-F. Yang, K.-M. Chiang, H.-W. Lin\*, "Efficient and Uniform Planar-Type Perovskite Solar Cells by Simple Sequential Vacuum Deposition" *Adv. Mater.* **26**, 6647 (2014).
- Y.-H. Chen, C.-W. Chen, Z.-Y. Huang, W.-C. Lin, L.-Y. Lin, F. Lin, K.-T. Wong, H.-W. Lin\*, "Microcavity-embedded, Colour-tuneable Transparent Organic Solar Cells", *Adv. Mater.* **26**, 1129 (2014).
- Y.-H. Chen, L.-Y. Lin, C.-W. Lu, F. Lin, Z.-Y. Huang, H.-W. Lin\*, P.-H. Wang, Y.-H. Liu, K.-T. Wong\*, J. Wen, D. J. Miller, S. B. Darling, "Vacuum-Deposited Small-Molecule Organic Solar Cells with High Power Conversion Efficiencies by Judicious Molecular Design and Device Optimization", *J. Am. Chem. Soc.* **134**, 13616 (2012).
- H.-W. Lin\*, S.-W. Chiu, L.-Y. Lin, Z.-Y. Huang, Y.-H. Chen, Francis Lin, K.-T. Wong\*, "Device Engineering for Highly Efficient Top-Illuminated Organic Solar Cells with Microcavity Structures", *Adv. Mater.* **24**, 2269 (2012).
- L.-Y. Lin, Y.-H. Chen, Z.-Y. Huang, H.-W. Lin\*, S.-H. Chou, F. Lin, C.-W. Chen, Y.-H. Liu, K.-T. Wong\*, "A Low-Energy-Gap Organic Dye for High-Performance Small-Molecule Organic Solar Cells" ", *J. Am. Chem. Soc.* **133**, 15822 (2011).