
BIOGRAPHICAL SKETCH

NAME in English Yen-Heng Lin	POSITION TITLE Assistant Professor, Department and Graduate Institute of Electronic Engineering		
NAME in Chinese 林彥亨			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
National Cheng Kung University	B.S.	07/02	Engineering Science
National Cheng Kung University	Ph.D.	07/09	Microfluidics and MEMS
Chang Gung University	Postdoctoral	07/10	Biosensor Technology

A. Positions and Honors

Positions and Employment

- 2010- Assistant Professor, Department and Graduate Institute of Electronic Engineering,
Chang Kung University
- 2009- Member, Biomedical Engineering Research Center, Chang Kung University

Honors

- 2009 Award for Best Ph.D. dissertation, The Chinese Society of Mechanical Engineering

B. Selected Peer-reviewed Publications (2005-2010) (in chronological order)

1. **Yen-Heng Lin** and Gwo-Bin Lee, "An integrated cell counting and continuous cell lysis device using optically induced dielectrophoresis," *Sensors and Actuators B: Chemical*, Vol. 145, pp. 854-860, 2010
2. Wei Wang, **Yen-Heng Lin**, Ten-Chin Wen, Tzung-Fang Guo, and Gwo-Bin Lee, "Selective manipulation of microparticles using polymer-based optically-induced dielectrophoretic devices," *Applied Physics Letters*, Vol. 96, pp. 113302, 2010
3. Shih-Hsun Hung, **Yen-Heng Lin**, and Gwo-Bin Lee, "A new platform for manipulation and separation of oil-in-water emulsion droplets using optically induced dielectrophoresis," *Journal of Micromechanics and Microengineering*, Vol. 20, pp. 045026, 2010
4. Ming-Wei Lee, **Yen-Heng Lin**, and Gwo-Bin Lee, "A platform to manipulate carbon nanotubes utilizing optically-induced dielectrophoretic forces," *Microfluidics and Nanofluidics*, Vol. 8, pp. 609-617, 2010
5. Wang-Ying Lin, **Yen-Heng Lin**, and Gwo-Bin Lee, "Optically-induced Dielectrophoretic Forces for Continuous Micro-particle Separation," *Microfluidics and Nanofluidics*, Vol. 8, pp. 217-229, 2010
6. Wei Wang, **Yen-Heng Lin**, Ruei-Syuan Guan, Ten-Chin Wen, Tzung-Fang Guo, and Gwo-Bin Lee, "Bulk-heterojunction polymers in optically-induced dielectrophoretic devices for the manipulation of

microparticles,” *Optics Express*, Vol. 17, pp. 17603-17613, 2009 (Selected for publication in Virtual Journal for Biomedical Optics)

7. **Yen-Heng Lin**, Chen-Min Chang, and Gwo-Bin Lee, “Manipulation single DNA molecule by using optically-induced dielectrophoresis,” *Optics Express*, Vol. 17, pp. 15318-15329, 2009 (Selected for publication in Virtual Journal for Biomedical Optics)
8. **Yen-Heng Lin** and Gwo-Bin Lee, “An Optically-Induced Cell Lysis Device Using Dielectrophoresis,” *Applied Physics Letters*, Vol. 94, pp. 033901, 2009 (Selected for publication in Virtual Journal of Biological Physics Research)
9. Chen-Yi Lee, **Yen-Heng Lin**, and Gwo-Bin Lee, “Droplet-Based Microfluidic System Capable of Droplet Formation and Manipulation,” *Microfluidics and Nanofluidics*, Vol. 6, pp. 599-610, 2009
10. **Yen-Heng Lin** and Gwo-Bin Lee, “Optically-induced Flow Cytometry for Continuous Microparticle Counting and Sorting,” *Biosensors and Bioelectronics*, Vol. 24, pp. 572-578, 2008
11. Chia-Wei Lai, **Yen-Heng Lin**, and Gwo-Bin Lee, “A Microfluidic Chip for Formation and Collection of Emulsion droplets Utilizing Active Pneumatic Micro-choppers and Micro-switches,” *Biomedical Microdevices*, Vol. 10, pp. 749-756, 2008
12. **Yen-Heng Lin**, Chun-Hong Lee, and Gwo-Bin Lee, “Droplet Formation Utilizing Controllable Moving-wall Structures for Double Emulsion Applications,” *Journal of Microelectromechanical Systems*, Vol. 17, pp. 573-581, 2008
13. **Yen-Heng Lin**, Cheng-Tso Chen, Lynn L.H. Huang, and Gwo-Bin Lee, “Multiple-channel Emulsion Chips Utilizing Pneumatic Choppers for Biotechnology Applications,” *Biomedical Microdevices*, Vol. 9, pp. 833-843, 2007