1. **Yen-Heng Lin***, Kai-Siang Ho, Chin-Tien Yang, Jung-Hao Wang, and Chao-Sung Lai*, A highly flexible platform for nanowire sensor assembly using a combination of optically induced and conventional dielectrophoresis, *Optics Express*, Vol. 22, pp. 13811-13824, 2014.

2. Briliant Adhi Prabowo, Ying-Feng Chang, Yu-Ying Lee, Li-Chen Su, Chih-Jen Yu, <u>Yen-Heng Lin</u>, Chien Chou, Nan-Fu Chiu, Hsin-Chih Lai*, and Kou-Chen Liu*, Application of an OLED integrated with BEF and giant birefringent optical (GBO) film in a SPR biosensor, *Sensors and Actuators B: Chemical*, Vol. 198, pp. 424-430, 2014.

3. <u>Yen-Heng Lin</u>*, Chia-Chu Wang, and Kin Fong Lei, Bubble-driven mixer integrated with a microfluidic bead-based ELISA for rapid bladder cancer biomarker detection, *Biomedical Microdevices*, Vol. 16, pp. 199-207, 2014.

4. Anirban Das, <u>Yen-Heng Lin</u>*, and Chao-Sung Lai*, Miniaturized amorphous-silicon based chemical imaging sensor system using a mini-projector as a simplified light-addressable scanning source, *Sensors & Actuators: B. Chemical*, Vol. 190, pp. 664-672, 2014.

5. <u>Yen-Heng Lin</u>*, Anirban Das, and Chao-Sung Lai*, A simple and convenient set-up of light addressable potentiometric sensors (LAPS) for chemical imaging using a commercially available projector as a light source, *International Journal of Electrochemical Science*, Vol. 8, pp. 7062-7074, 2013.

6. <u>Yen-Heng Lin</u>*, Anirban Das, Min-Hsien Wu, Tung-Ming Pan, and Chao-Sung Lai*, "Microfluidic Chip Integrated with an Electrolyte-Insulator-Semiconductor Sensor for pH and Glucose Level Measurement," *International Journal of Electrochemical Science*, Vol. 8, pp. 5886-5901, 2013.

7. <u>Yen-Heng Lin</u>*, Ying-Ju Chen, Chao-Sung Lai*, Yi-Ting Chen, Chien-Lun Chen, Jau-Song Yu, and Yu-Sun Chang, "A negative-pressure-driven microfluidic chip for the rapid detection of a bladder cancer biomarker in urine using bead-based ELISA," *Biomicrofluidics*, Vol. 7, pp. 024103, 2013.

8. Atanu Das, Anirban Das, Liann-Be Chang*, Chao-Sung Lai, Ray-Ming Lin, Fu-Chuan Chu, **Yen-Heng Lin**, Lee Chow, and Ming-Jer Jeng, "GaN Thin Film Based Light Addressable Potentiometric Sensor for pH Sensing Application," *Applied Physics Express*, Vol. 6, pp. 036601, 2013.

9. Song-Bin Huang, Min-Hsien Wu, **Yen-Heng Lin**, Chia-Hsun Hsie, Chih-Liang Yang, Hung-Chih Lin, Ching-Ping Tseng*, and Gwo-Bin Lee*, "High-purity and label-free isolation of circulating tumor cells (CTCs) in a microfluidic platform by

using optically-induced-dielectrophoretic (ODEP) force," *Lab on a chip*, Vol. 13, pp. 1371-1383, 2013.

10. <u>Yen-Heng Lin</u>*, Shih-Hao Wang, Min-Hsien Wu, Tung-Ming Pan, Chao-Sung Lai, Ji-Dung Luo, and Chiuan-Chian Chiou, "Integrating solid-state sensor and microfluidic devices for glucose, urea and creatinine detection based on enzyme-carrying alginate microbeads," *Biosensors and Bioelectronics*, Vol. 43, pp. 328-335, 2013.

11. <u>Yen-Heng Lin</u>, Ya-Wen Yang, Yi-Dao Chen, Shih-Siou Wang, Yu-Han Chang*, and Min-Hsien Wu*, "The application of an optically switched dielectrophoretic (ODEP) force for the manipulation and assembly of cell-encapsulating alginate microbeads in a microfluidic perfusion cell culture system for bottom-up tissue engineering," *Lab on a chip*, Vol. 12, pp. 1164-1173, 2012.

12. <u>Yen-Heng Lin</u>*, Chien-Hung Chiang, Min-Hsien Wu, Tung-Ming Pan, Ji-Dung Luo, and Chiuan-Chian Chiou, "Solid-state sensor incorporated in microfluidic chip and magnetic-bead enzyme immobilization approach for creatinine and glucose detection in serum," *Applied Physics Letters*, Vol. 99, pp. 253704, 2011.

(Before Chang Gung University)

13. <u>Yen-Heng Lin</u> and Gwo-Bin Lee^{*}, "An integrated cell counting and continuous cell lysis device using an optically induced electric field,"*Sensors and Actuators B: Chemical*, Vol. 145, pp. 854-860, 2010.

14. Wei Wang, <u>Yen-Heng Lin</u>, 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.

15. Shih-Hsun Hung, **Yen-Heng Lin**, and Gwo-Bin Lee*, "A microfluidic 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.

16. 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.

17. Wang-Ying Lin, <u>Yen-Heng Lin</u>, and Gwo-Bin Lee^{*}, "Optically-induced Dielectrophoretic Forces for Continuous Micro-particle Separation,"*Microfluidics and Nanofluidics*, Vol. 8, pp. 217-229, 2010.

18. 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.

19. <u>Yen-Heng Lin</u>, Chen-Min Chang, and Gwo-Bin Lee^{*}, "Manipulation of single DNA molecules by using optically projected images," *Optics Express*, Vol. 17, pp. 15318-15329, 2009.

20. <u>Yen-Heng Lin</u> and Gwo-Bin Lee*, "An Optically-Induced Cell Lysis Device Using Dielectrophoresis," *Applied Physics Letters*, Vol. 94, pp. 033901, 2009.

21. 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.

22. <u>Yen-Heng Lin</u> and Gwo-Bin Lee^{*}, "Optically-induced Flow Cytometry for Continuous Microparticle Counting and Sorting," *Biosensors and Bioelectronics*, Vol. 24, pp. 572-578, 2008.

23. Chia-Wei Lai, <u>Yen-Heng Lin</u>, 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.

24. <u>Yen-Heng Lin</u>, 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.

25. <u>Yen-Heng Lin</u>, 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.

26.Lung-Ming Fu, Gwo-Bin Lee*, Yen-Heng Lin, Ruev-Ien and Micro-particles "Manipulation of Using New Modes Yang, of Travelling-wave-dielectrophoretic Forces -Numerical Simulation and Experiments," IEEE/ASME Transactions on Mechatronics, Vol. 9, pp. 377-383, 2004.

27. Gwo-Bin Lee^{*}, Shu-Hui Chen, Chin-She Lin, Guan-Ruey Huang, and <u>Yen-Heng</u> <u>Lin</u>, "Microfabricated Electrophoresis Chips on Quartz Substrates and Their Applications on DNA Analysis, ", *Journal of The Chinese Chemical Society*, Vol. 48, No. 6B, 2001.

28. Che-Hsin Lin, Gwo-Bin Lee*, <u>Yen-Heng Lin</u>, and Guang-Liang Chang, "A Fast-Prototyping Process for Fabrication of Microfluidic Systems on Soda-Lime Glass," *Journal of Micromechanics and Microengineering*, Vol. 11, pp. 726-732, 2001. <u>Highly cited papers in 10 years, top 1% selected by ISI.</u>

29. Gwo-Bin Lee^{*}, Shu-Hui Chen, Guan-Ruey Huang, Wang-Chou Sung, and <u>Yen-Heng Lin</u>, "Microfabricated Plastic Chips by Hot Embossing Methods and Their Applications for DNA Separation and Detection, "*Sensors and*

Actuators B: Chemical, Vol. 75, pp. 142-148, 2001. Highly cited papers in 10 years, top 1% selected by ISI.