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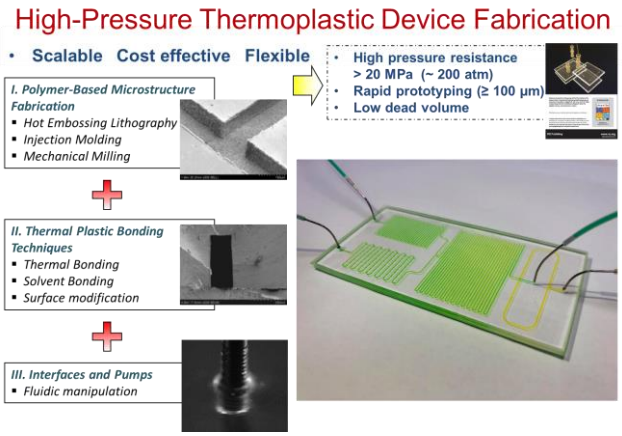
Ph.D. Institute of Applied Mechanics, National Taiwan University

工作經驗：

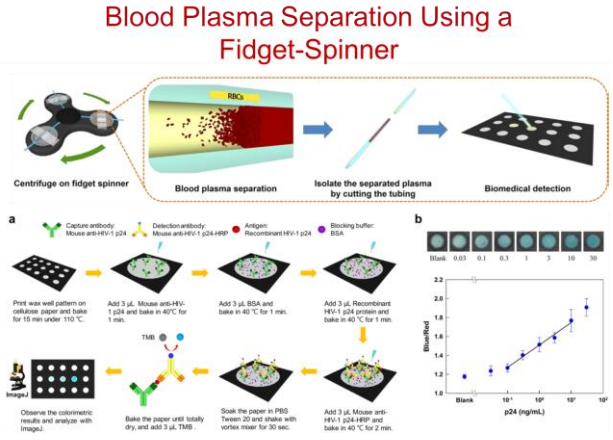
2018/08 – 副教授 臺灣大學應用力學所
2021/08 – 副教授 臺灣大學重點科技研究學院
2021/05 – 副主任 臺灣大學奈米機電系統研究中心
2016 – 2018 助理教授 臺灣大學應用力學所
2011 – 2016 助理教授 中興大學醫工所
2007 – 2011 **Postdoctoral, University of Maryland, College Park**
2018 – **Associate Editor on *Micro & Nano Letters***
2020 – **Editor on *Chemosensors***

研究領域：

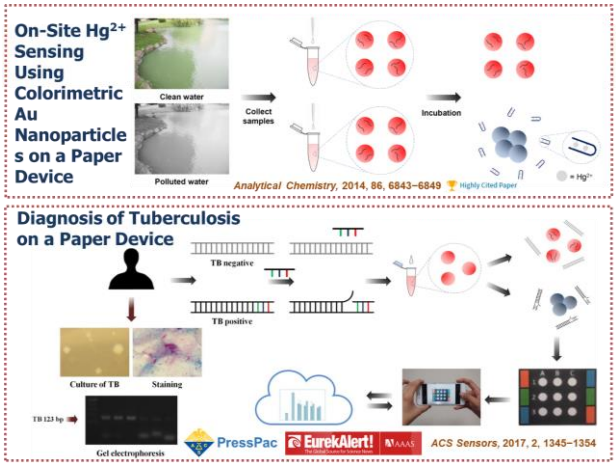
- 精密機械製程於材料科學與生化檢測應用



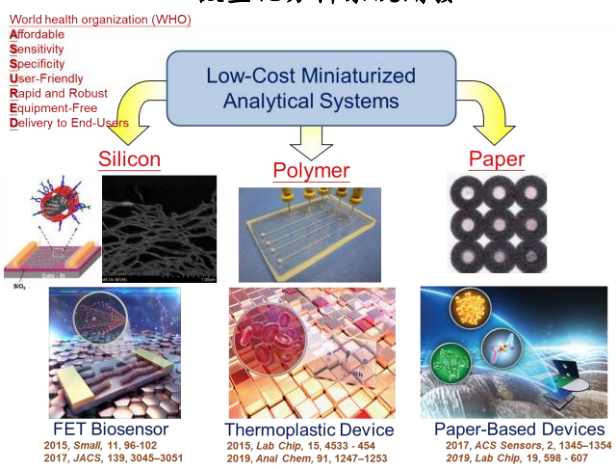
- 簡易式醫療檢測照護系統



- 奈米材料於環境監控與醫學應用



- 微型化分析系統開發



榮譽獎項：

- **科技部吳大猷先生紀念獎 (2019)**
- **科技部未來科技獎 (2020)**
- **科技部未來科技突破獎 (2019)**
- **科技部優秀年輕學者研究計畫 (2018-2021)**

主要論文著作：

Selected Publications

1. Hao Yuan, Jingxuan Tian, Youchuang Chao, Yuh-Shiuan Chien, Ren-Hao Luo, Jun-Yu Guo, Shanshan Li, Yi-Ju Chou, Ho Cheung Shum*, and Chien-Fu Chen*, Hand-Powered Microfluidics for Parallel Droplet Digital Loop-Mediated Isothermal Amplification Assays, *ACS Sensors*, 2021, doi.org/10.1021/acssensors.1c00184. **(Cover)**
2. Chung-An Chen, Hao Yuan, Chiao-Wen Chen, Yuh-Shiuan Chien, Wang-Huei Sheng, and Chien-Fu Chen*, An Electricity- and Instrument-Free Infectious Disease Sensor Based on a 3D Origami Paper-Based Analytical Device, *Lab on a Chip*, 2021, 21, 1908-1915. (**Back Cover** and collected in the **Lab on a Chip HOT Articles 2021**)
3. Jia-Hui Lin, Tsung-Ting Tsai, Qiang Zeng, Chun-Yen Chang, Jun-Yu Guo, Chi-Jui Lin, and Chien-Fu Chen*, A Multifunctional Microfluidic Device for Blood Typing and Primary Screening of Blood Diseases, ***ACS Sensors***, 2020, 5, 10, 3082–3090. **(Cover)**
4. Tsung-Ting Tsai, Chung-An Chen, Natalie Yi-Ju Ho, Shuan Yang, and Chien-Fu Chen*, Fluorescent Double-Stranded DNA-Templated Copper Nanoprobes for Rapid Diagnosis of Tuberculosis, ***ACS Sensors***, 2019, 4, 2885–2892. **(Cover)**
5. Chung-An Chen, Wen-Shin Yeh, Tsung-Ting Tsai, Yu-De Li, and Chien-Fu Chen*, Three-Dimensional Origami Paper-Based Device for Portable Immunoassay Applications. ***Lab on a Chip***, 2019, 19, 598 - 607. **(Back cover)**
6. Chao-Hsuan Liu, Chung-An Chen, Shi-Jia Chen, Tsung-Ting Tsai, Chin-Chou Chu, Chien-Cheng Chang*, and Chien-Fu Chen*, Blood Plasma Separation Using a Fidget-Spinner. ***Analytical Chemistry***, 2019, 91, 1247–1253. (Highlighted and reported by the ACS Headline Science, C&EN, Presspac, American Association for the Advancement of Science, IEEE GlobalSpec, and on the journal of Circulation).
7. Tsung-Ting Tsai, Chia-Yu Huang, Chung-An Chen, Shu-Wei Shen, Mei-Chia Wang, Chao-Min Cheng and Chien-Fu Chen*, Diagnosis of Tuberculosis Using Colorimetric Gold Nanoparticles on a Paper-Based Analytical Device. ***ACS Sensors***, 2017, 2, 1345-1354. (Highlighted and reported by the American Association for the Advancement of Science, IEEE GlobalSpec, the American Chemical Society, and the Russian News Agency).