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Educational background

2007 Ph.D. 臺大應用力學研究所

Employment background

2022/08 – 臺大應用力學研究所教授
2022/08 – 臺大奈米機電系統研究中心主任
2018 – 2022 臺大應用力學研究所副教授
2016 – 2018 臺大應用力學研究所助理教授
2011 – 2016 中興醫工所助理教授
2010 – 2011 Postdoctoral, Department of Chemistry and Biochemistry,
University of Maryland, College Park
2007 – 2010 Postdoctoral, Dept. of Mechanical Engineering, University of
Maryland, College Park

Award

1. 國科會傑出研究獎 (2021)
2. 國科會吳大猷先生紀念獎 (2019)
3. 臺灣大學「年度績優教師」 (2021、2022)
4. 臺灣大學工學院「學術勵進獎」 (2021)
5. 國科會未來科技獎 (2019、2020)

Selective Publication

1. Y. M. Liao, P. Y. Chiu, Y. S. Chien, and C. F. Chen*, A Music Box-Inspired Semi-Automatic Hematocrit Validation Device, **ACS Sensors**, 2023, 8, 2952-2959.

2. W. Y. Chu, Y. R. Chiou, R. H. Luo, T. H. Chen, C. J. Yu, Y. J. Chou, H. T. Chang, and C. F. Chen*, Partially Miscible Droplet Microfluidics to Enhance Interfacial Adsorption of Hydrophilic Nanoparticles for Colloidosome Synthesis, **Chemical Engineering Journal**, 2023, 471, 144223.
3. S. C. Wu, T. T. Tsai, T. H. Li, C. Y. Tung, P. Y. Chiu, J. H. Lin, and C. F. Chen*, Palladium-Platinum Bimetallic Nanomaterials and Their Application in Staphylococcus Aureus Detection on Paper-Based Devices, **Biosensors and Bioelectronics**, 2022, 216, 114669.
4. J. H. Lin, S. J. Chen, J. E. Lee, W. Y. Chu, C. J. Yu, C. C. Chang*, and C. F. Chen*, The Detection of Mercury(II) Ions Using Fluorescent Gold Nanoclusters on a Portable Paper-Based Device, **Chemical Engineering Journal**, 2022, 430, 133070.
5. H. Yuan, J. Tian, Y. Chao, Y. S. Chien, R. H. Luo, J. Y. Guo, S. Li, Y. J. Chou, H. C. Shum*, and C. F. Chen*, Hand-Powered Microfluidics for Parallel Droplet Digital Loop-Mediated Isothermal Amplification Assays, **ACS Sensors**, 2021, 6, 2868–2874.
6. C. A. Chen, H. Yuan, C. W. Chen, Y. S. Chien, W. H. Sheng, and C. F. 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.
7. H. Yuan, T. T. Tsai, H. P. Wang, Y. S. Chien, C. A. Chen, C. C. Chu, C. T. Ho, P. H. Chu, and C. F. Chen*, A Manual and Portable Centrifuge Combined with a Paper-Based Immunoassay for Myocardial Infarction Diagnosis, **Chemical Engineering Journal**, 2021, 409, 128131.
8. J. H. Lin, T. T. Tsai, Q. Zeng, C. Y. Chang, J. Y. Guo, C. J. Lin, and C. F. Chen*, A Multifunctional Microfluidic Device for Blood Typing and Primary Screening of Blood Disease, **ACS Sensors**, 2020, 5, 3082–3090.
9. T. T. Tsai, C. A. Chen, Y. J. N. Ho, S. Yang, and C. F. Chen*, Fluorescent Double-Stranded DNA-Templated Copper Nanoprobes for Rapid Diagnosis of Tuberculosis, **ACS Sensors**, 2019, 4, 2885-2892.
10. C. A. Chen, W. S. Yeh, T. T. Tsai, Y. D. Li, and C. F. Chen*, Three-Dimensional Origami Paper-Based Device for Portable Immunoassay Applications, **Lab on a Chip**, 2019, 19, 598 - 607.
11. C. H. Liu, C. A. Chen, S. J. Chen, T. T. Tsai, C. C. Chu, C. C. Chang*, and C. F. Chen*, Blood Plasma Separation Using a Fidget-Spinner, **Analytical Chemistry**, 2019, 91, 1247–1253.