

CURRICULUM VITAE

Chawin Srisomwat



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Education Background

2017-Present Ph.D. (Analytical Chemistry), Chulalongkorn University,
Thailand
2013-2017 B.Sc. (Chemistry)- First class honor, Thammasat University,
Thailand

Working Experience

2021-present Visiting student with Prof. Dr. Arben Merkoçi at
Nanobioelectronics and Biosensors Group, Catalan Institute of
Nanoscience and Nanotechnology, Autonomous University of
Barcelona (UAB)
2018 Student exchange in Japan-Asia Youth Exchange Program in
Science with Prof. KONDO Takeshi at Tokyo University of
Science, Faculty of Science and Technology, Department of
Pure and Applied Chemistry
2015 Student trainee in The National Nanotechnology Center
(NANOTEC), National Science and Technology Development
Agency (NSTDA)

Grant

2017-Present The Royal Golden Jubilee (RGJ) Ph.D. Programme, The
Thailand Research Fund (TRF).

Research of Interest

Electroanalytical Chemistry, Microfluidic device, Lab-on-paper, nucleic acid detection.

Dissertation Title

Development of paper-based electrochemical device for detection of biomarker of
infectious diseases

Publications (3 publications)

1. Srisomwat, C., Yakoh, A., Avihingsanon, A., Chuaypen, N., Tangkijvanich, P., Vilaivan, T., & Chailapakul, O. (2021). An alternative label-free DNA sensor based on the alternating-current electroluminescent device for simultaneous detection of human immunodeficiency virus and hepatitis C co-infection. *Biosensors and Bioelectronics*, 113719.

2. Srisomwat, C., Yakoh, A., Chuaypen, N., Tangkijvanich, P., Vilaivan, T., & Chailapakul, O. (2020). Amplification-free DNA Sensor for the One-Step Detection of the Hepatitis B Virus Using an Automated Paper-Based Lateral Flow Electrochemical Device. *Analytical Chemistry*.

3. Srisomwat, C., Teengam, P., Chuaypen, N., Tangkijvanich, P., Vilaivan, T., & Chailapakul, O. (2020). Pop-up paper electrochemical device for label-free hepatitis B virus DNA detection. *Sensors and Actuators B: Chemical*, 128077.

Patents (2 petty patents)

1. Lateral-flow device with electrochemical method for nucleic acid detection of Hepatitis B virus infection (th 2103001540) (Issued)
2. Label-free electrochemical method with peptide nucleic acid for DNA detection (th 2103002404) (Issued)