

## บรรณานุกรม

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## ข้อมูลประวัติคณะผู้วิจัย

### ประวัติส่วนตัว

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การเคลื่อนที่ของอนุภาคและของเหลวโดยการใช้สนามไฟฟ้า

### รางวัลด้านวิชาการ/ด้านวิจัย/งานสร้างสรรค์ (ด้านศิลปะ หรืออื่นๆ) ที่ได้รับ

ปี พ.ศ.	ชื่อรางวัล	สถาบันที่ให้
2553	Best paper award ในงานประชุมวิชาการ Southeast Asia International Advances in Micro/Nano-Technology, Bangkok, Thailand	International School of Engineering, Faculty of Engineering, Chulalongkorn University (Thailand)

### ทุนการศึกษาและทุนวิจัยที่เคยได้รับ

ปี พ.ศ.	ทุนการศึกษาและทุนวิจัย	สถาบันที่ให้
2549-2553	Nanyang Technological University Ph.D. scholarship	Nanyang Technological University
2547-2549	AUN/SEED-NET Master's Degree scholarship	AUN/SEED-NET

## ผลงานวิจัย/งานสร้างสรรค์

### ผลงานวิจัย/งานสร้างสรรค์ที่ตีพิมพ์เผยแพร่ (ระดับชาติและนานาชาติ)

#### หนังสือ และ บทความ (BOOK AND BOOK CHAPTERS)

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- [2] **Lewpiriyawong, N.** and Yang, C., “Dielectrophoretic Characterization and Continuous Separation of Cells in a PDMS Microfluidic Device with Sidewall Conducting PDMS Composite Electrodes”, *Micro and Nano Flow Systems for Bioanalysis*, Springer: 2013, Vol 2, Chapter 11. [DOI: 10.1007/978-1-4614-4376-6]
- [3] **Lewpiriyawong, N.** and Yang, C., “Dielectrophoresis Field-Flow Fractionation for Continuous-Flow Separation of Particles and Cells in Microfluidic Devices”, *Advances in Transport Phenomena*: 2011, Vol 3, 2014, pp 29-62. [DOI: 10.1007/978-3-319-01793-8\_2]

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- [1] **Lewpiriyawong, N.**, Yang, C. and Xu, G., “High-throughput microfluidic device for filtering live and dead biological cells using combined hydrodynamics and electrokinetics” (in process)
- [2] **Lewpiriyawong, N.** and Yang, C., “Continuous Separation of Multiple Particles by Negative and Positive Dielectrophoresis in a Modified H-filter”, *Electrophoresis.*, Vol. 35, Issue 5, Mar 2014, pp.714-720.
- [3] **Lewpiriyawong, N.** and Yang, C., “AC-Dielectrophoretic Characterization and Continuous-flow Separation of Submicron and Micron Particles Using AC-Dielectrophoresis via Conducting PDMS electrodes”, *Biomicrofluidics.*, Vol. 6, Mar. 2012, 012807. [DOI: 10.1063/1.3682049]
- [4] **Lewpiriyawong, N.**, Yang, C. and Lam, Y. C., “Electrokinetically-Driven Concentration of Particles and Cells by Dielectrophoresis Using a DC-Offset, AC Electric Field”, *Microfluidics and Nanofluidics.*, Vol. 12, Issue 5, Dec. 1, pp.723-733.
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#### วิดีโอทางวิทยาศาสตร์ (SCIENTIFIC VIDEO)

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#### การเสนอผลงานวิชาการ

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[2] **Lewpiriyawong, N.**, Yang, C. and Lam, Y. C., “Electrokinetically-Driven Concentration of Particles and Cells by Dielectrophoresis Using a dc-Offset, ac Electric Field” in *Advances in Microfluidics and Nanofluidics and Asian-Pacific International Symposium on Lab on Chip*, Singapore, Jan 5-7, 2011.

[3] **Lewpiriyawong, N.**, Yang, C., Kandaswamy, K., Ivanov, V. and Stocker, R., “A PDMS-Based Microfluidic Device for Characterizing and Continuously Separating Cells Using AC-DEP via 3D Conducting PDMS Composite Electrodes” in *Advances in Microfluidics and Nanofluidics and Asian-Pacific International Symposium on Lab on Chip*, Singapore, Jan 5-7, 2011.

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