

Han Sun (M.Phil.)

Present academic position:

2016-now: Ph.D. student, Department of Chemistry, Hong Kong Baptist University, China

Previous relevant research work:

Micro and nano fabrication
Microfluidics MEMS MicroTAS
Ultra high sensitivity detection
High throughput analysis
Miniaturization and integration
Microfluidic cell sorting and manipulation
Diagnostic Medical Device

Publication records:

Section A-Five most representative publications in the recent five years (* Corresponding Author)

1. Han Sun, Wanbo Li, Zhen-Zhen Dong, et al. A suspending-droplet mode paper-based microfluidic platform for low-cost, rapid, and convenient detection of lead(II) ions in liquid solution[J]. *Biosensors and Bioelectronics*, 2018, 99: 361-367.
2. Han Sun, Zhengzhi Liu, Chong Hu, Kangning Ren*, Cell-on-Hydrogel Platform Made of Agar and Alginate for Rapid, Low-cost, Multidimensional Test of Antimicrobial Susceptibility, *Lab Chip*, 2016, 16, 3130 - 3138.
3. Chong Hu, Han Sun, Zhengzhi Liu, Yin Chen, Yangfan Chen, Hongkai Wu* and Kangning Ren*, "Freestanding 3-D microvascular networks made of alginate hydrogel as a universal tool to create microchannels inside hydrogels", *Biomicrofluidics*, 10, 044112, 2016
4. Zhengzhi Liu, Han Sun, Kangning Ren*, Multiplexed, Gradient-based, Full hydrogel Microfluidic Platform for Rapid, High-throughput Antimicrobial Susceptibility Testing, *ChemPlusChem*, 82, 792-801, 2017
10.1002/cplu.201600654
5. Chong Hu, Sheng Lin, Wanbo Li, Han Sun, Yangfan Chen, Chiu-Wing Chan, Chung-Hang Leung, Ma Dik-Lung*, Hongkai Wu* and Kangning Ren*, A One-Step Strategy for Ultra-Fast and Low Cost Mass Production of Plastic Membrane Microfluidic Chips, *Lab Chip*, 2016, 16, 3909-3918. (featured as journal front outside cover)