## Representative Publication of Prof. Yinning ZHOU

- 1. <u>Yinning Zhou</u>, Zhichao Ma and Ye Ai, Dynamically tunable elasto-inertial particle focusing and sorting in microfluidics, *Lab on a Chip*, 2020; 20, 568-581, DOI: 10.1039/C9LC01071H
- 2. <u>Yinning Zhou</u>, Zhichao Ma, Mahnoush Tayebi and Ye Ai, Submicron particle focusing and exosome sorting by wavy microchannel structures within viscoelastic fluids, *Analytical chemistry*, 2019; 91 (7), 4577-4584. DOI: 10.1021/acs.analchem.8b05749
- 3. <u>Yinning Zhou</u>, Zhichao Ma and Ye Ai, Sheathless inertial cell focusing and sorting with serial reverse wavy channel structures, *Nature. Microsystems & Nanoengineering*, 2018;4:5. DOI: 10.1038/s41378-018-0005-6
- Yinning Zhou, Zhichao Ma and Ye Ai, Hybrid Microfluidic Sorting of Rare Cells based on High Throughput Inertial Focusing and High Accuracy Acoustic Manipulation, RSC advances, 2019, 9, 31186-31195. DOI: 10.1039/C9RA01792E
- Yinning Zhou, Hao Wang, Zhichao Ma, Joel K. W. Yang and Ye Ai, Acoustic vibration-induced actuation of multiple micro-rotors in microfluidics, Advanced Materials Technologies, 2020. DOI: 10.1002/admt.202000323
- 6. <u>Yinning Zhou</u>, Zhichao Ma and Ye Ai, Submicron particle concentration and patterning with ultra-low frequency acoustic vibration, *Analytical Chemistry*, 2020, 92 (19), 12795-12800
- 7. <u>Yinning Zhou</u> and Ye Ai, Microfluidic applications of acoustic vibration-based target manipulation, *Lab on a Chip*, 2021 (under review)
- 8. Zhichao Ma, <u>Yinning Zhou</u>, David J. Collins and Ye Ai, Fluorescence activated cell sorting via a focused traveling surface acoustic beam, *Lab on a Chip*, 2017;17(18):3176-3185. DOI: 10.1039/C7LC00678K
- Zhichao Ma, <u>Yinning Zhou</u>, Feiyan Cai, Long Meng, Longqiu Li, Hairong Zheng and Ye Ai, Ultrasonic Microstreaming for Complex-trajectory Transport and Rotation of Single Particles and Cells, *Lab on a Chip*, 2020. DOI: 10.1039/D0LC00595A
- Mahnoush Tayebi, <u>Yinning Zhou</u>, Pallavi Tripathi, Rajesh Chandramohanadas and Ye Ai, Exosome Purification and Analysis Using a Facile Microfluidic Hydrodynamic Trapping Device, *Analytical chemistry*, 2020. DOI: 10.1021/acs.analchem.0c02006
- 11. Komal Agarwal, <u>Yinning Zhou</u>, Hashina Parveen Anwar Ali, Ihor Radchenko, Avinash Baji and Arief Suriadi Budiman, Additive Manufacturing Enabled by Electrospinning for Tougher Bio-Inspired Materials, *Advances in Materials Science and Engineering*, 2018; 9. DOI: 10.1155/2018/8460751
- 12. Ying Zhou, Dahou Yang, <u>Yinning Zhou</u>, BL Khoo, Jongyoon Han and Ye Ai, Characterizing deformability and electrical impedance of cancer cells in a microfluidic device, *Analytical Chemistry*, 2017; 90 (1), 912-919. DOI: 10.1021/acs.analchem.7b03859
- 13. Dahou Yang, Ying Zhou, <u>Yinning Zhou</u>, Jongyoon Han and Ye Ai, Biophysical Phenotyping of Single Cells Using a Differential Multiconstriction Microfluidic Device with Self-Aligned 3D Electrodes, *Biosensors and Bioelectronics*, 2019; 133, 16-23. DOI: 10.1016/j.bios.2019.03.002
- Peixian Li, Zhichao Ma, <u>Yinning Zhou</u>, David J. Collins, Zhenfeng Wang and Ye Ai, Detachable Acoustophoretic System for Fluorescence Activated Sorting at Single Droplet Level, *Analytical chemistry*, 2019. DOI: 10.1021/acs.analchem.9b01708
- Shuai Zhong, Xinglong Ji, <u>Yinning Zhou</u>, Yishu Zhang, Ye Ai and Rong Zhao, CMOS Compatible Transient Resistive Memory with Prolonged Lifetime, *Advanced Materials Technologies*, 2019; 1900217. DOI: 10.1002/admt.201900217
- 16. Minhui Liang, Dahou Yang, <u>Yinning Zhou</u>, Peixian Li, Jianwei Zhong and Ye Ai, Single cell stretching in viscoelastic fluids with electronically triggered imaging for the assessment of cellular mechanical properties, *Lab on a Chip*, 2020 (under review)

## **Conference Papers**

17. <u>Yinning Zhou</u>, Shiying Liu and Ye Ai, Cell differentiation within isolated cell-derived matrix in inertial serial reverse wavy microfluidic channel structure, *International Miniaturized Systems for Chemistry and Life Sciences (MicroTAS)*, 2018

Zhichao Ma, David J. Collins, <u>Yinning Zhou</u> and Ye Ai, Fluorescence Activated Cell Sorting (FACS) System Based on Focused Traveling Surface Acoustic Waves (FTSAWs), *International Multidisciplinary Conference on Optofluidics (IMCO)*, 2017