

李自达

助理教授

深圳大学生物医学工程

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教育经历

密歇根大学安娜堡分校

Ann Arbor, MI, US

博士, 机械工程, 导师: Prof. Jianping Fu

2013 – 2018

中国科学技术大学

安徽合肥

学士, 热能与动力工程

2008 – 2012

工作经历

深圳大学

深圳

助理教授, 生物医学工程

2018 至今

香港大学

香港

研究助理, 导师: Prof. Anderson Shum

2012 – 2013

主要荣誉和奖项

- 深圳大学“优秀班主任”(2022)
- 深圳大学“优秀本科教师奖”(2022)
- 深圳大学“教学单项奖”(2021)
- 深圳大学年度考核优秀(2020)
- Baxter Young Investigator Award First-Tier, Baxter Healthcare Inc. (2016)
- 安徽省优秀本科毕业生(2012)
- 本科生国家奖学金(2011)

指导学生获奖

- 深圳大学“腾讯创新奖学金”(李东豪, Top 1%, 2022)
- 深圳大学优秀硕士毕业生(陈琳喆, 2022)
- 深圳大学“荔园挑战”创新创业大赛特等奖(李东豪, Top 2%, 2021; 丁婧怡, 2022)
- 深圳大学百篇优秀本科毕业论文(金美池, Top 2%, 2021)

科研项目 (竞争性)

- 广东省自然科学基金面上项目(主持, 2019)
- 广东省卫健委医学科学技术研究基金青年项目(主持, 2019)
- 深圳大学医学部“青年拔尖计划”(主持, 2019)

授权专利

- 中国发明专利 ZL202110750662.0. 第一 (2023)
- 中国发明专利 ZL202010260648.8. 第一 (2022)
- U.S. Patent Application 62/304,385. 第三 (2017)
- U.S. Patent Application 13/839,072. 第三 (2013)

主要论文 (#第一作者; *通讯作者; 指导的学生)

独立通讯 :

- [1] Donghao Li,# Jingyi Ding,# Xinyu Liu, Yong Liang, and **Zida Li*** (2023). Digital microfluidics for point-of-care *in vitro* diagnostics. #, **under review**
#区, IF: #
- [2] Jingyi Ding,# Kai Wu,# and **Zida Li*** (2023). Emerging digital nuclei acid amplification tests: a materials perspective. #, **under review**
#区, IF: #
- [3] Meichi Jin, Kai Wu, Mengzhen Wang, Yang Zhang, Chengbin Yang, and **Zida Li*** (2023). High resolution, multiplex antibody patterning using micropillar-focused droplet printing and microcontact printing. **Advanced Materials Technologies**, **under review**
二区, IF: 8.8
- [4] Kai Wu,# Qi Fang,# Zhantao Zhao, and **Zida Li*** (2023). CoLD-LAMP: Color-encoded, intelligent digital LAMP for multiplexed nucleic acid quantification. **Analytical Chemistry**, in press
一区, IF: 8.0
- [5] Yang Zhang, Taozhao Yu, Jingyi Ding, and **Zida Li*** (2023). Bone-on-a-chip platforms and integrated biosensors: towards advanced *in vitro* bone models with real-time biosensing. **Biosensors & Bioelectronics**, 219, 114798
一区, IF: 12.5
- [6] Linzhe Chen, Donghao Li, Xinyu Liu, Yihan Xie, Jieying Shan, Haofan Huang, Xiaxia Yu, Yudan Chen, Weidong Zheng, and **Zida Li*** (2022). Point-of-care blood coagulation assay based on dynamic monitoring of blood viscosity using droplet microfluidics. **ACS Sensors**, 7(8), 2170–2177
一区, IF: 9.6, Front cover
- [7] Donghao Li,# Xinyu Liu,# Yujuan Chai,# Jieying Shan, Yihan Xie, Yong Liang, Susu Huang, Weidong Zheng, and **Zida Li*** (2022). Point-of-care blood coagulation assay enabled by printed circuit board-based digital microfluidics. **Lab on a Chip**, 22(4), 1473-0197
一区, IF: 7.5
- [8] Lanzhu Huang,# Xinyu Liu,# Yuanbin Ou, Haofan Huang, Xia Zhang, Yize Wang, Yong Liang, Xiaxia Yu, Weidong Zheng, Huisheng Zhang, and **Zida Li*** (2020). Micro-engineered flexural post rings for effective blood sample fencing and high throughput measurement of clot retraction force. **ACS Sensors**, 5(12), 3949-3955
一区, IF: 9.6, Front cover

主导角色的共同通讯 :

- [9] Run Xie,[#] Yang Liu,[#] Xuyang Shi, Shiyu Wang, Zhantao Zhao, Longqi Liu, Ya Liu,^{*} and **Zida Li**^{*} (2023). Combinatorial perturbation sequencing on single cells using microwell-based droplet random pairing. **Biosensors & Bioelectronics**, 220, 114913
一区, IF: 12.5
- [10] Linzhe Chen,[#] Jingyi Ding,[#] Hao Yuan, Chi Chen^{*}, and **Zida Li**^{*} (2022). deep-dLAMP: deep learning-enabled polydisperse emulsion-based digital loop-mediated isothermal amplification. **Advanced Science**, 9(9), 2105450
一区, IF: 17.5
- [11] Linzhe Chen, Guoliang Zhang, Longqi Liu,^{*} and **Zida Li**^{*} (2021). Emerging biosensing technologies for improved diagnostics of COVID-19 and future pandemics. **Talanta**, 225, 121986
二区, IF: 6.5

第一作者兼共同通讯：



- [12] **Zida Li**^{#,*}, Feng Lin[#], Shue Wang, Xufeng Xue, and Yue Shao^{*} (2022). Single-cell sequencing to unveil the mystery of embryonic development. **Advanced Biology**, 6(2), 2701-0198
三区, IF: 3.5
- [13] **Zida Li**,^{*} Luoquan Li, Meixiang Liao, Liqun He, and Ping Wu^{*} (2019). Multiple splitting of droplets using multi-furcating microfluidic channels. **Biomicrofluidics**, 13(2), 024112
三区, IF: 3.2

次要角色的通讯作者：

- [14] Shiyu Wang,[#] Yang Liu,[#] Yijian Li, Menghua Lv, Kai Gao, Ying He, Wenbo Wei, Yonggang Zhu, Xuan Dong, Xun Xu, **Zida Li**,^{*} Longqi Liu,^{*} and Ya Liu^{*} (2022). High-throughput functional screening of antigen-specific T-cells based on droplet microfluidics on single-cell level. **Analytical Chemistry**, 94(2), 918–926
一区, IF: 8.0, Front cover
- [15] Xue Chen, Nicolo Simone Villa, Yanfeng Zhuang, Linzhe Chen, Tianfu Wang, **Zida Li**,^{*} and Tiantian Kong^{*} (2020). Stretchable supercapacitors as emergent energy storage units for health monitoring bioelectronics. **Advanced Energy Materials**, 10(4), 1902769
一区, IF: 29.7
- [16] Luoquan Li[#], Ping Wu[#], Zhaofeng Luo, Lei Wang, Weiping Ding, Tao Wu, Jinyu Chen, Jinlong He, Ying Chen, Guibo Li, **Zida Li**,^{*} and Liqun He^{*} (2019). Dean flow assisted single cell and bead encapsulation for high performance single cell expression profiling. **ACS Sensors**, 4(5), 1299-1305
一区, IF: 9.6

独立一作（加入深圳大学之前）：

- [17] **Zida Li**, Yize Wang, Xufeng Xue, Brendan McCracken, Kevin Ward, and Jianping Fu^{*} (2018). Carbon nanotube strain sensor based hemoretractometer for blood coagulation testing. **ACS Sensors**, 3(3), 670-676
一区, IF: 9.6
- [18] **Zida Li**, Xufeng Xue, Feng Lin, Yize Wang, Kevin Ward, and Jianping Fu^{*} (2017). Capillary-assisted coating of carbon nanotube thin film as a strain gauge. **Applied Physics Letters**, 111(17), 173105
二区, IF: 3.9

- [19] **Zida Li**, Xiang Li, Brendan McCracken, Yue Shao, Kevin Ward, and Jianping Fu* (2016). A miniaturized hemoretractor for blood clot retraction testing. ***Small***, 12(29), 3926-3934.
—, IF: 12.5
- [20] **Zida Li**, Sze Yi Mak, Alban Sauret, and Ho Cheung Shum* (2014). Syringe-pump-induced fluctuation in all-aqueous microfluidic system implications for flow rate accuracy. ***Lab on a Chip***, 14(4), 744-749
—, IF: 7.5