

Xiao Xiao

BACKGROUND

- School of Materials Science and Engineering, [Beihang University](#)

Sept. 2016~July 2020

Undergraduate student

RESEARCH EXPERIENCES

- Department of Bioengineering, [University of California Los Angeles](#)

2019 Fall~Now

Supervisor: Prof. Jun Chen (*supervising online*)

Project: Functional Materials for Energy Applications

- Department of Chemical Engineering, [University College London](#)

2019 Winter&Summer

Supervisor: Dr. Zheyi Meng, Prof. Marc-Olivier Coppens (*department head*)

Project: Bio-inspired Membranes for Water Purification

- Australian Institute of Innovative Materials, [University of Wollongong](#)

2019 Spring

Supervisor: Dr. Weijie Li, Prof. Yongji Gong (*co-supervisor at SMSE, Beihang*)

Project: Hydrogels Materials for electrolyte in Zinc Battery

- School of Chemistry, [Beihang University](#)

2017 Spring~2018 Fall

Supervisor: Dr. Cunming Yu, Prof. Lei Jiang (*academician of the U.S. Academy of Engineering*)

Project: Bio-inspired Materials for Bubble Manipulation

PAPERS

- L. Jin, Xiao Xiao, W. Deng, A. Nashalian, D. He, C. Yan, H. Su, X. Chu, V. Raveendran, T. Yang, G. Tian, W. Li, W. Yang, J. Chen. Manipulating Relative Permittivity for a High-Performance Triboelectric Nanogenerator. [Nano Letters](#) (an American Chemical Society journal), 2020, Accepted.
- Xiao Xiao, C. Zhang, H. Ma, Y. Zhang, G. Liu, M. Cao, C. Yu, L. Jiang, Bio-inspired slippery cone for controllable manipulation of gas bubbles in low-surface-tension environment. [ACS Nano](#) (an American Chemical Society journal), 2019, 13 (4), 4083–4090.
- C. Zhang, Y. Zhang, Xiao Xiao, G. Liu, Z. Xu, B. Wang, C. Yu, R. Robin, L. Jiang, Efficient separation of immiscible oil/water mixtures using a perforated lotus leaf. [Green Chemistry](#) (a Royal Society of Chemistry journal), 2019, 21, 6579-6584 .
- C. Zhang, B. Zhang, H. Ma, Z. Li, Xiao Xiao, C. Yu, M. Cao, L. Jiang, Bioinspired pressure-tolerant asymmetric slippery surface for continuous self-transport of gas bubbles in aqueous environment. [ACS Nano](#), 2018, 12 (2), 2048-2055Z.

CONFERENCE

- 2nd Materials Undergraduate Academic Forum of Beijing Universities, oral presentation (Best paper Award).
- 2018 Russian-Chinese Arctic Forum of the Young Scientists of the ASRTU, oral presentation.

CAMPUS ACTIVITIES

Participated in exchange programs of cooperation universities of Beihang, including

- Exchange program at [*University of Wollongong*](#) (UOW) at Australia, 2019
- Summer school at [*Israel Institute of Technology*](#) (Technion) at Haifa, 2018
- Summer program of [*National Chiao Tung University*](#) (NCTU) at Taiwan, 2017

Served as the president of Materials Association, a student organization at Beihang, and organized

- 2018 Undergraduates' Innovation Training Camp
- 2nd Undergraduates' 3D-printing Competition of Beijing Universities
- 5th Undergraduates' Molecular Model Assembly Competition of Beihang University

AWARDS

2020 Beihang University, **Outstanding graduate** (top 1%)

2018 School of Materials Science and Engineering, **Outstanding Student** (top 1%)

2018 Beihang Innovation and Entrepreneurship Scholarship, **Special Prize** (top 1%)

2018 Beihang Academic Scholarship, **Second Prize** (top 5%)

2018 Mathematical Modeling Contest of Beihang University, **Second Prize** (top 5%)

2017 Beihang Learning Excellence Scholarship, **Third Prize** (top 10%)