

Yichao GUAN

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EDUCATION & ACADEMIC VISITINGS

Beijing University of Chemical Technology, Beijing, BJ, China
B.S. Degree in Polymer Science and Engineering

Sept. 2018 – Jun. 2022

Ranking: 7/396, GPA: 3.87/4.33(90.22/100)

CET4 620

CET6 616

GRE V164 Q165 AW4.0

PUBLICATIONS & MANUSCRIPTS

Guan Y, Ye J, Zhang Z, Xue J (2020). Photothermal therapy for tissue engineering and regenerative medicine. (In progress)

RESEARCH EXPERIENCE

Center of Advanced Elastomer Materials, BUCT, Beijing, China

Advisor: Prof. JiajiaXue

Undergraduate Research Assistant

Aug. 2019 – Present

Wrote a Review on Photothermal Therapy for Tissue Engineering and Regenerative Medicine

Designed a New Antibacterial Platform Integrating Phase-Change Material(PCM) with Electrospun Fibers for Local On-demand Drug Release

Department of Systems Biology, Harvard Medical School

Advisor: Prof. Markus Basan

Undergraduate Research Assistant

Feb. 2020 – Present

Developing a Mechanical Model for the Cell Envelope of Gram Negative Bacteria

HONORS & AWARDS

Methanex Scholarship (**Top 5% Students**), *Beijing University of Chemical Technology* 2019

Merit Freshman Scholarship of EASTSIM (**Top 1% Students**), *Beijing University of Chemical Technology* 2018

Merit Freshman Scholarship of BUCT (**Top 5% Students**), *Beijing University of Chemical Technology* 2018

COURSEWORK & SOFTWARE

Computer Skills Python, C, 3ds Max, AutoCAD, Photoshop, Adobe Illustrator, etc.

Experimental Skills Material synthesis techniques, Coaxial electrospray technology, Electrospinning technology, Material's spectroscopic characterization (SEM, TEM), Spectrophotometry, Cell culture, Bacteria culture, etc.

Curriculum Highlights Mathematics and Statistics: Advanced (linear) Algebra, Mathematical Analysis, Probability Theory, Calculus, Mathematical Model, Complex Function and Integral Transformation
Chemistry: Organic Chemistry, Physical Chemistry, Inorganic Chemistry, Analytical Chemistry, Biological Chemistry
Biology: Cell Biology, Microbiology, Introduction To Systems Biology (Coursera)
Physics: General physics, Theoretical mechanics, Mathematical Physics