

Yichao GUAN

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EDUCATION & ACADEMIC VISITINGS

Beijing University of Chemical Technology , Beijing, BJ, China	Sept. 2018 – Jun. 2022
B.S. Degree in Polymer Science and Engineering	GPA: 3.85/4.33
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

<i>Center of Advanced Elastomer Materials, BUCT, Beijing, China</i>	Advisor: Prof. JiajiaXue
<i>Undergraduate Research Assistant</i>	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	

<i>Department of Systems Biology, Harvard Medical School</i>	Advisor: Prof. Markus Basan
<i>Undergraduate Research Assistant</i>	Feb. 2020 – Present
Developing a Mechanical Model for the Cell Envelope of Gram Negative Bacteria	

HONORS & AWARDS

Methanex Scholarship (Top 5% Students), <i>Beijing University of Chemical Technology</i>	2019
Merit Freshman Scholarship of EASTSIM (Top 1% Students), <i>Beijing University of Chemical Technology</i>	2018
Merit Freshman Scholarship of BUCT (Top 5% Students), <i>Beijing University of Chemical Technology</i>	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	<u>Mathematics and Statistics</u> : Advanced (linear) Algebra, Mathematical Analysis, Probability Theory, Calculus, Mathematical Model, Complex Function and Integral Transformation <u>Chemistry</u> : Organic Chemistry, Physical Chemistry, Inorganic Chemistry, Analytical Chemistry, Biological Chemistry <u>Biology</u> : Cell Biology, Microbiology, Introduction To Systems Biology (Coursera) <u>Physics</u> : General physics, Theoretical mechanics, Mathematical Physics