Yue Yu

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Citizenship: People's Republic of China
Date of birth: August 5, 1995

EDUCATION

Sichuan University, Chengdu, China **Sep 2017-Oct 2020**
Master of Engineering
Major: Applied Chemistry

Hefei University of Technology, Hefei, China **Sep 2013-Jun 2017**
Bachelor of Engineering
Major: Applied Chemistry

RESEARCH EXPERIENCE

Research on MXene/cobalt nanowires heterojunctions **Jan 2020-Jun 2020**
With photo-responsive antibacterial ability
Participant, Sichuan University (Prof. Yi Deng)

Research on a novel double network hydrogel **Jan 2020-Jun 2020**
A mixture of GelMA and κ-carrageenan to enhance osteogenic differentiation
Participant, Sichuan University (Prof. Yi Deng)

Research on a modified polyetheretherketone **Feb 2019-Dec 2019**
Promoting the osteogenic differentiation of PEEK and enabling it to have antibacterial ability
Main Researcher, Sichuan University (Prof. Yi Deng)

Research on an improved sulfonated polyetheretherketone **Feb 2018-Nov 2019**
Endowing the SPEEK with anti-inflammatory ability and boosting its osteogenic capability
Main Researcher, Sichuan University (Prof. Yi Deng)

Research on β-tricalcium phosphate mixed with polylactic acid particles **Jul 2017-Aug 2017**
Improving the mechanical property of β-TCP and accelerate its degradation
Research Assistant, Sichuan University (Prof. Kenan Xie)

WORK EXPERIENCE

Sichuan University, Chengdu, China **Dec 2020-Jun 2021**
Research Assistant

Junlian County People's Hospital, Junlian, China **Aug 2021-May 2022**
Staff

PUBLICATIONS

[1] **Yue Yu**, Kenan Xie, Yi Deng, Lu Xie. Endowing polyetheretherketone with anti-inflammatory ability and improved osteogenic ability. Journal of Biomaterials Science, Polymer Edition, 2021,32(1): 42-59.

[2] **Yue Yu**, Yimin Sun, Xiong Zhou, Yurong Mao, Etc. Ag and peptide co-decorate polyetheretherketone to enhance antibacterial property and osteogenic differentiation. Colloids and Surfaces B: Biointerfaces. 2021,198: 111492.

[3] Xianhua He, Deng Yi, **Yue Yu**, Hao Lyu, Etc. Drug-loaded/grafted peptide-modified porous PEEK to promote bone tissue repair and eliminate bacteria. Colloids and Surfaces B: Biointerfaces. 2019 181(1):767-777.

[4] Hao Lyu, Zechao He, Yau Kei Chan, Xianhua He, **Yue Yu**, Yi Deng. Hierarchical ZnO nanotube/graphene oxide Nanostructures endow pure Zn implant with synergistic bactericidal activity and osteogenicity. Industrial & Engineering Chemistry Research, 2019, 58(42): 19377-19385.

[5] Liu Yunxiu, Yu Tian, Qiuyang Han, Jie Yin, Junchuan Zhang, **Yue Yu**, Etc. Synergism of 2D/1D MXene/Cobalt nanowire heterojunctions for boosted photo-activated antibacterial application. Chemical Engineering Journal, 2021, 410: 128209.