

Shuting Wang
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EDUCATION

Shanghai Jiao Tong University, Shanghai
Bachelor of Materials Science and Engineering
Cumulative GPA : 3.62/4.30
Relevant Courses: Material Thermodynamic (96%) Mechanics of Materials (96%)
Materials Chemistry (90%) Basis of Material Manufacturing Digital Technology (91.54%)

RESEARCH EXPERIENCE

Participant of Participation in Research Program: Shanghai Jiao Tong University:
‘Preparation and chiral regulation of phenylalanine hydrogels’ project

Spring-Fall 2021

Realized the in situ transition of handedness of supramolecular assemblies by removing terminal diethylene glycol motifs. Separated the enantiomers of racemic phenylalanine by in situ regulation of handedness of nanofibers. Published a paper ‘Inversion of Supramolecular Chirality by In-situ Hydrolyzation of Achiral Diethylene Glycol Motifs’.

Student Researcher of National Undergraduate Innovative Test Program:
Shanghai Jiao Tong University: ‘Chiral Supramolecular assemblies induce the apoptosis of tumor cells’ project

Fall 2021-Spring 2023

Prepared co-assemblies systems using IR1048 and Perylene derivatives and discovered that they had cotton effect at 1100nm, which couldn’t be seen in self-assemblies systems of either of building blocks. Based on this, we using circularly polarized light as the light source for photothermal therapy(PTT). And it indicated that the effect of PTT on 4T1 cells was related to the handedness of building blocks of co-assemblies used to incubate cells.

Researcher: Shanghai Jiao Tong University: ‘Handedness regulation of co-assemblies built with photosensitizers and C2-supramolecules and their PTT effect by exposed to circularly polarized light’ issues

Spring 2023-present

Meant to solve problems left behind the last project, like explaining the mechanism of co-assembly, searching the reason why co-assemblies constructed with enantiomers had the same cotton effect at 1100nm, further studying the regulation of the handedness of assemblies with different building blocks, and so on.

PUBLICATION

Published ‘Inversion of Supramolecular Chirality by In Situ Hydrolyzation of Achiral Diethylene Glycol Motifs’ on *The Journal of Physical Chemistry B*, **2021.11-2022.02**

STUDENT WORK

Director of project department of Student Science and Technology Association of School of Materials Science and Engineering

Summer 2022-present

Wrote a project proposal of the second session of ‘Materials day’ activity (an activity for students and researchers majored in materials science and engineering to communicate and enjoy themselves) and took a part in organization.

Participated in scheming science and innovation training camp ‘Knowledge and action project’.

HONORS AND AWARDS

Shanghai Jiao Tong University-Suzhou Industrial Park Scholarship **02/2023**

Shanghai Jiao Tong University ABC Scholarship **12/2022**

INTERESTES AND SKILLS

Software: PS, Pr, Sai, Adobe InDesign, MATLAB, ChemDraw, MestReNova, GraphPad Prism, Origin, Match, MDI Jade.

Interests: digital illustration, drawing, piano, CoC TRPG (Call of Cthulhu Tabletop Role-playing game)