

Open dissemination workshops:
from the course ‘**Nano Electronic Materials**’

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National Center for Nanoscience and Technology

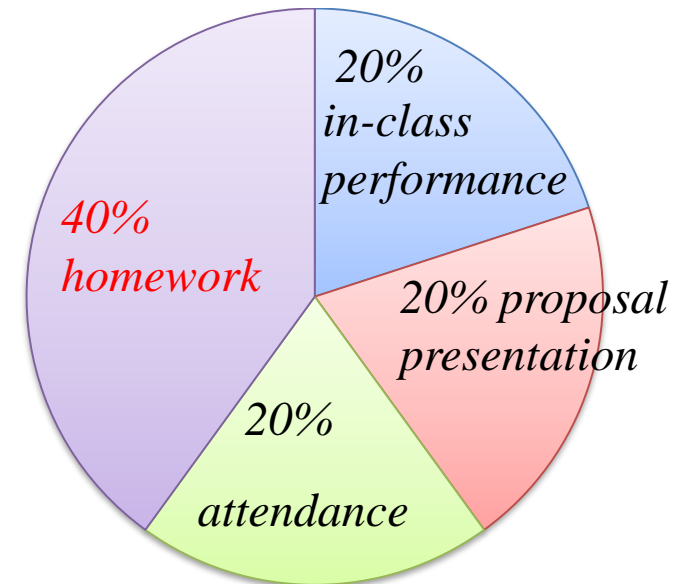
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About the course of 'Nano Electronic Materials'

Contents

1. Motivation
2. Special properties of nanomaterials
3. Preparation of nanomaterials
4. Characterization of nanomaterials
5. Device fabrication
6. Electrical measurement
7. Quantum Dots
8. Nanowires
9. Carbon Nanotubes
10. Graphene
11. 2D Materials beyond Graphene

Grading Policy



Course registration and distribution

□ ~10% international students in UCAS attended this course every year since 2016



□ The course has been electronically distributed to industry in China



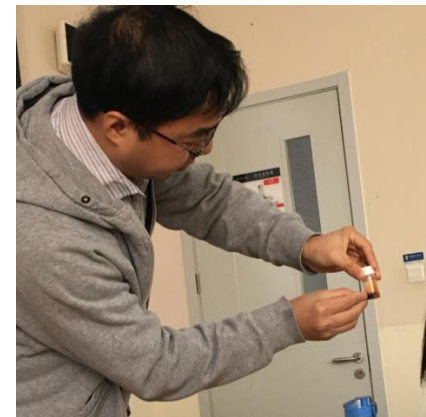
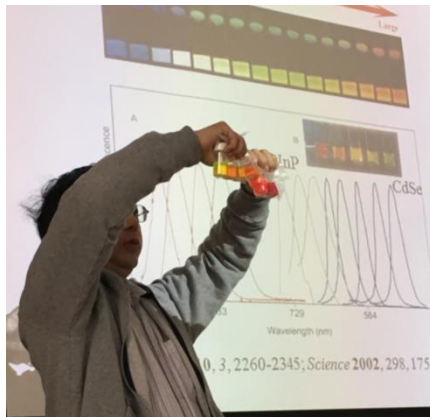
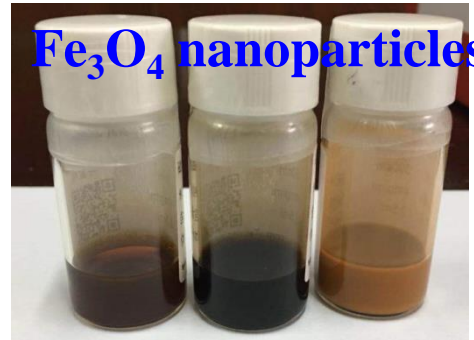
Top new energy car manufacturer in China



Top display panel manufacturer over the world

In-Class demonstration

1. Size dependent absorption and emission of semiconducting QDs
2. Superparamagnetism of Fe_3O_4 nanoparticles



Out-of-class activity

Visiting display panel fabrication in BOE



2017



2018



2019



The end