# YUYING NING

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## EDUCATION

**ANHUI UNIVERSITY** 09/2018-06/2022
THE PEOPLE'S REPUBLIC OF CHINA HEFEI, ANHUI

- Major: New Energy Materials and Devices
- Degree: Bachelor of Engineering
- Related Courses: Introduction for New Energy, Organic Chemistry Experiment I, Engineering Drawing and CAD, Solid State Physics, Fundamental of Material Engineering, Fundamental of Material Science, Theoretical Electrochemistry etc.

## QUALIFICATION

- A detail-oriented individual with the basic ability of developing new energy materials, researching new technology, and improving material properties. Familiar with Python, C programming language etc.

## PAPERS

**Polypyrrole Reinforced N, S-doping Graphene Foam for Efficient Solar Purification of Wastewater;** Published at *Solar RRL* in May 2021(ISSN 2367-198X, DOI: 10.1002/solr.202100210)
**Solar Evaporation Performance of Nano-CuS Supported by Flexible Porous Silicon Rubber**; Published at *Materials Review* (ISSN 1005-023X) in March 2021.
**Synthesis of Hollow Copper Sulfide Nanocubes with Low Emissivity for Highly Efficient Solar Steam Generation**; Published at *Solar Energy Materials and Solar Cells* (ISSN 0927-0248) in March 2020.
(DIO: 10.1016/j.solmat.2020.110484)

## PATENT

**Solar Water Purifier Based on Interfacial Solar Photothermal Conversion** (Patent No.: 202010106056.0) 02/2020

## RESEARCH EXPERIENCE

***Independent Researcher*** **The Photothermal Conversion of Ricepaperplant Pith** 09/2020-Present

- Coated carbonized tetrapanaxpapyrifer with PVA, and optimized the two structures for cyclic test experiments.
- Carried out the salting-out test of sea water and explored the salting-out resistance of this material structure.
- Did performance test and characterization of carbonized tetrapanaxpapyrifer, such as SEM diagram, XRD and contact angle test.

***Core Member*** **The Synthesis of N, S-Go & N, S-Go/ PPY Foam to Purify Heavy Metal Ions in Sewage** 09/2019-01/2020

- Synthesized N, S-GO and N, S-GO/ PPY foams by hydrothermal method.
- Improved the photothermal conversion performance of the material by adding PPY.
- Conducted the sewage purification test, and found that this material can reduce some heavy metal ions, so as to
- achieve the purification of sewage.

***Member*** **The Synthesis & Photothermal Performance Test of Hollow Copper Sulfide** 04/2019-08/2019

- Synthesized hollow CuS nanocubes by sacrificial template method.
- Used Cu2O as a template to prepare hollow CuS nanoparticles.
- Prepared ultrafine practical CuS nanoparticles by precipitation method.
- Made CuS sponge absorber.

## EXTRACURRICULAR ACTIVITIES

*Core Member*, **Summer Social Practice Activities** 07/2019-Present
*Team Leader*, **Environmental Protection Public Welfare Activities** 04/2019-Present
*Organizer*, **The Activity of Donating Idle Books** 11/2018-Present

*Core Member*, **Publicity Department of School of Chemistry and Chemical Engineering** 10/2018-Present
*Volunteer*, **Anhui University Volunteers Association** 10/2018-Present
*Chemistry Teacher*, **Chemistry Goes Into Community Activities** 10/2018-Present
*Core Member*, **Guitar Club** 10/2018-Present
Core Member, **F.A. Hip-hop Dance Club** 10/2018-Present

## HONORS & AWARDS

Excellent Conclusion of The Undergraduate Innovation and Entrepreneurship Training Program(3%) 06/2020
First Prize in Resume Making Competition(1%), Anhui University 12/2020
Excellent Student Scholarship(1%), Anhui University 12/2020
Academic Science and Technology Scholarship(1%), Anhui University 12/2020
Cultural and Sports Activities Scholarship (2%), Anhui University 12/2019
Excellent Students in Virtue, Study and Physical Conditions (1%), Anhui University 12/2019
National Encouragement Scholarship(1%), Anhui University 11/2019
Winning Prize of College Students' Innovation & Entrepreneurship Competition (2%), Anhui University 11/2019
First Prize in The Competition of The Most Beautiful Chemistry Notes(1%), Anhui University 11/2019
First Prize of Women's Group in Winter Long-distance Race (1%), Anhui University 09/2019
Outstanding Worker of the Student Union(3%), Anhui University 05/2019