

# CHEN XUANHONG

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## EDUCATION

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Zhengzhou University “**project 211**”

Bachelor of science in chemistry

GPA:3.47/4.00 (84.91/100) IELTS 6.0

Core modules: The principle of Inorganic Chemistry (89), Organic Chemistry I(86), Physical Chemistry I (90), Physical Chemistry II (95), Instrumental Analysis (91), Structural Chemistry (91), Theoretical calculation Chemistry (93), Spectrum Analysis(96).

## RESEARCH EXPERIENCES

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First semester of sophomore year: In the laboratory of Li Baojun, teacher of Industrial Catalysis, I learned how to use MOFs loaded precious and non-precious metals for catalytic reduction of sodium borohydride to produce hydrogen;

From the second semester of sophomore year to the second semester of junior year: as the person in charge, I conducted the one-year provincial college student innovation program training project "Resource Utilization of CO<sub>2</sub> - Design and electrocatalytic performance research of Codoped carbon Foundation Catalyst" in Li Hongping's laboratory. The NiZn bimetallic nanoparticle catalysts encapsulated in nitrogen-doped graphitized carbon shells were prepared by solvent-thermal reaction and high-temperature calcination using ZIF-8 as precursor. The electrocatalytic reduction of CO<sub>2</sub> was studied by using these catalysts in H-electrolytic cell.

**Research achievements:** Published a paper as the third author in the European Journal of Inorganic Chemistry 《In situ fabrication of Cd layer on Zn foil through replacement reaction for electrochemical CO<sub>2</sub> reduction to CO》

## HONORS AND AWARDS

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Third prize of Excellent Student Scholarship of Zhengzhou University in 2021-2022 academic year

Third prize of Excellent Student Scholarship of Zhengzhou University in 2022-2023 academic year

Second prize of the 15th National Mathematics Competition for College Students (non-Mathematics A class)

## EXTRACURRICULAR ACTIVITIES

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Attend 2022 Henan Provincial Chemistry Annual Conference.

Attend 2024 (20th) China Hot melt Adhesive Professional Summit Forum.

Attend China Plastics Association Degradable Plastics Professional Committee 2024 Annual Meeting and Bio-based materials and Biodegradable plastics Technology and Application Seminar.

Attend **The Japanese two-thousand Plan**(Two weeks of exchange study at Ritsumeikan University、Kyoto University, Japan)

## SKILLS

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During high school, I had a certain level of proficiency in **Visual Basic, PS, Excel** and other subjects that were part of the college entrance examination. During my college years, I self-taught **Python** programming language, which can be used for text data extraction and web data crawling. At the same time, during my scientific research training period, I became proficient in **PPT, Word, Origin, Gauss view modeling and Gauss program calculation** (calculated Chemistry) .