

# CHEN Si

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Master student in Environmental Engineering majoring in Water Treatment, PKU. Passionate about advanced technologies and novel materials applied to water treatment with lab work and field measurements.

## Education

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- **Peking University** **Beijing, P.R. China**  
*Master of Science, Environmental Engineering*  
GPA: **3.74/4** (88.53/100)  
*9/2015–present*
- **Nankai University** **Tianjin, P.R. China**  
*Bachelor of Engineering, Environmental Engineering*  
GPA: **3.68/4** (88.23/100, Top 10 % student)  
*9/2011–6/2015*

## Research/Project Experience

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- **Master Thesis Project at Peking University** **Beijing, P.R. China**  
***Novel Magnetic Coagulant and Application in Removal of Nitrate from Water*** *11/2016–9/2017*
  - Mentor: Professor Huazhang Zhao, The Key Laboratory of Water and Sediment Sciences, PKU
  - Introduced magnetic nanoparticles into covalent bond structure to form a novel magnetic coagulant
  - Applied ultrahigh resolution mass spectrometry (ESI-FT-ICR-MS) to further analysis of DOM removal
- **Research Project at Peking University** **Beijing, P.R. China**  
***Behaviors and characteristics of covalently bound hybrid coagulants (CBHyC)*** *12/2015–8/2016*
  - CBHyC has a great potential in overcoming some urgent problems to be solved and reached higher coagulation efficiency
  - DLS, EEM, SEC-DOC, UV-vis, Acid-base titration and ICP-MS were used in this study
  - Completed one paper as the first author
- **Bachelor Thesis Project at Nankai University** **Tianjin, P.R. China**  
***Research on Surface Molecular Imprinted (SMIP) Material*** *10/2014–5/2015*
  - Mentor: Professor Lei Wang, Ministry of Education Key Laboratory of Environmental Pollution Process and Standard, NKU
  - Made the molecularly imprinted polymerization reaction occur on the surface of carbon microspheres and carbon fiber bar, which can selectively extract analytes from the complex matrix
  - Mastered the methods of developing a novel material
- **Other research projects I participated**
  - Molecular characterization of DOM from landfill concentrated leachate and its transformation during biodegradation and coagulation process using ultrahigh resolution mass spectrometry (ESI-FT-ICR-MS)
  - Role of iron and phosphorus from effluent of WWTP in influencing the content and component of EPS
  - Applications of ultrafiltration membrane in depth removal of inorganic nutrients such as nitrogen and phosphorus

## Publications

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- Chen, S., Yuan, Z. W., Hanigan, D., Westerhoff P., Zhao, H. Z. New covalently bound hybrid coagulants (CBHyC) outperform conventional coagulants in removing organic matter and turbidity from surface waters (submitted).

## Selected Awards and Honors

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- **The First Prize Scholarship** **Nankai University**  
12/2013  
*Only 10 % of the best students receive this scholarship*
- **The First Prize Scholarship** **Nankai University**  
12/2014  
*Only 10 % of the best students receive this scholarship*
- **Nankai University Outstanding Student Cadres** **Nankai University**  
2012–2014  
*Awarded for three times as the commissary in charge of studies*
- **Nankai University Outstanding Graduates** **Nankai University**  
2015  
*Awarded the Excellent Graduation Thesis*

## Selected Personal Skills

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- **Instrument and Analysis:** DLS, EEM, UV-vis, ICP-MS, TOC, IC, FT-ICR-MS, XRD, XPS, FTIR-ATR, etc.
- **Computer Skills:** MS Office, Origin, Endnote, AutoCAD, ChemDraw, Photoshop, SPSS, C++, etc.
- **Language Skills:** Chinese (native), English (Proficient in working)

## Research Interests

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- Advanced technology applied to water treatment and resource cycle.
- Research and development of novel materials to solve urgent water pollution issues.
- New instrumental analysis methods for micro-level further study.

## Social Activities

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- **Hiking Association of Peking University** **Peking University**  
2016-2017  
*Organized and participated many activities as a Chairman*
- **Teaching Assistant** **Peking University**  
3/2016-6/2016  
*Environmental Engineering Experiment Course*
- **Student Assistant** **Nankai University**  
9/2013-1/2015  
*Teaching Research Office of College of Environment Science and Engineering*