

Hanna Cho

Department of Fine Chemistry
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EDUCATION

Mar. 2017 ~ Present	Seoul National University of Science and Technology Department of Fine Chemistry <i>Advisor: Cheal Kim</i> <i>Master Student</i> GPA: 4.19/4.5	Seoul, Korea
Mar. 2013 ~ Feb. 2017	Seoul National University of Science and Technology Department of Fine Chemistry <i>B.S. in Fine Chemistry</i> GPA: 3.75/4.5	Seoul, Korea

RESEARCH INTERESTS

- Aspired to discover chemical reagents that can illuminate environmental problems
- Desires to exploit latent knowledges of ligand metal complexes

PUBLICATIONS (SCIE/ESCI)

1. Haeri So, Hanna Cho, Hangyul Lee, Minh Cong Tran, Ki-Tae Kim, Cheal Kim, "Detection of zinc (II) and hypochlorite by a thiourea-based chemosensor via two emission channels and its application in vivo", *MICROCHEMICAL JOURNAL*, (2020)
2. Hanna Cho, Ju Byeong Chae, Cheal Kim, "Cinnamaldehyde-Based Chemosensor for Colorimetric Detection of Cu²⁺ and Hg²⁺ in a Near-Perfect Aqueous Solution", *CHEMISTRYSELECT*, (2019)
3. Hanna Cho, Ju Byeong Chae, Cheal Kim, "A thiophene-based blue-fluorescent emitting chemosensor for detecting indium (III) ion", *INORGANIC CHEMISTRY COMMUNICATIONS*, (2018)

CONFERENCES (TALK/POSTER)

1. Min Seon Kim, Hanna Cho, Cheal Kim, "Highly selective and sensitive colorimetric chemosensor for detection of Co²⁺ in a near-perfect aqueous solution" the 253rd ACS National Meeting & Exposition, San Francisco, LA, United States, April 2–6, 2017
2. Hanna Cho, Minuk Yang, Suhmi Hwang, Sehoon Kim, Cheal Kim "A novel colorimetric chemosensor for multiple target metal ions Fe²⁺, Co³⁺, and Cu²⁺ in near- perfect aqueous solution: Experimental and theoretical studies" 255th ACS National Meeting & Exposition, New Orleans , LA, United States, May 18-22, 2018

RESEARCH EXPERIENCES

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- Visiting scholar at Department of Biochemistry, University of Michigan, Ann Arbor (Jan. 2019 ~ Dec. 2019)

AWARDS AND HONORS

- Scholarship for Excellence in Scientific Papers, Seoul National University of Science and Technology, Fall 2018
- Scholarship for Highest Academic Honor, Seoul National University of Science and Technology, Fall 2017
- Work Scholarship for Tutoring English, Seoul National University of Science and Technology, Spring 2016
- Scholarship for International Exchange Student, Seoul National University of Science and Technology, Fall 2015

PROJECTS

1. Mechanism and Real-Time Detection of DNA Cleavage, National Research Foundation of Korea (NRF), Korea (2016-2018)
2. Development of Non-Heme Biomimetic Catalysts for High-Efficiency Conversion of Methane, National Research Foundation of Korea (NRF), Korea (2016-2017)

SKILLS AND TECHNIQUES

1. Synthesis studies for neutral ligands and complexes (Recrystallization, extraction and column chromatography)
2. Handling spectrometers and data analysis (Fluorescence, UV-vis, FT-IR, H and C NMR and ESI-mass spectroscopy)
3. Self-assembly of various metal coordination complexes with ligands
4. Protein purification process (Expression, Purification, dialysis, metal column, HPLC)
5. Data scraping using python

TEACHING EXPERIENCE

- Teaching Assistant: Inorganic Chemistry Laboratory, Spring 2018
- Teaching Assistant: General Chemistry Laboratory, Fall 2017