

## 조은철

조은철은 서울 [공과대학 화학공학과](#) 교수이자 [유기 및 무기구조체 연구실](#)장을 겸하고 있다.

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- 홈페이지: <https://sites.google.com/site/hanyangcholab/>

## 학력

- 1998 B.S. Polymer Science and Engineering POSTECH, Korea
- 2000 M.S. Environmental Science and Engineering (Advisor. Kilwon Cho)
- 2004 Ph.D Chemical Engineering (Advisor. Kilwon Cho)

## 경력

- 2004.1.1. - 2007.12.21, Senior researcher, Amorepacific Corporation, Korea
- 2008.1.1. - 2011.2.16, Postdoctoral associate, Department of Biomedical Engineering, Washington University in St. Louis, MO
- 2011.3 - 2013.2, Assistant professor
- 2013.3 - 2018.2, Associate professor
- 2018.3 - present, professor, Department of Chemical Engineering, Hanyang University

## 연구관심분야

1. Synthesis of organic/inorganic colloids and its application
  - Polymer & hydrogel colloids, biodegradable & natural colloids, liposomes covered with polymers
  - Gold/silver nanocrystals and noble-metal hollow nanostructures
  - Metamolecules and metacoloids
  - Application: cosmetics, energy, optoelectronics, and environments.
2. Construction of novel micro/nanostructures through colloidal assemblies
  - Self-assembly of colloids in aqueous systems (linear and 3-D assemblies)
  - Metasurface fabrications
  - Colloidal-based nanopatterns (inverse opals, plasmonic patterns)
  - Application: cosmetics, sensors, solar energy harvest, displays