

NANO KOREA 2020

July 1~3, KINTEX, Korea

Changha Lee

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EDUCATION

Seoul National University, Seoul, Korea	Ph.D	Chemical and Biological Engineering	2007
Seoul National University, Seoul, Korea	BS	Chemical and Biological Engineering	2001

PROFESSIONAL ACTIVITIES

- Associate Professor, School of Chemical and Biological Engineering, Seoul National University, Seoul, Korea, September 2018 to Present
- Professor, School of Urban and Environmental Eng., Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea, August 2009 to August 2018
- Postdoctoral Researcher, Department of Civil and Environmental Engineering, University of California, Berkeley, CA, USA, March 2007 to August 2009
- Visiting Researcher, Swiss Federal Institute for Aquatic Science and Technology (EAWAG), Zurich, Switzerland, November 2005 to June 2006

AWARD AND HONORS

- Special Contribution Award, Korean Society of Environmental Engineers, 2017
- Special Achievement Award, Korean Society of Environmental Engineers, 2015
- The Award for Excellence in Environmental Technology, Korea Environmental Industry and Technology Institute, 2012

MAIN SCIENTIFIC PUBLICATION

- M. S. Kim, C. Lee, "Ozonation of Microcystins: Kinetics and Toxicity Decrease", *Environ. Sci. Technol.*, 2019, 53, 6427-6435
- H. -E. Kim, H. -J. Lee, M. S. Kim, T. Kim, H. Lee, H. -H. Kim, M. Cho, S. -W. Hong, C. Lee, "Differential Microbicidal Effects of Bimetallic Iron-Copper Nanoparticles on Escherichia coli and MS2 Coliphage", *Environ. Sci. Technol.*, 2019, 53, 2679-2687
- J. Seo, H. Lee, H. -J. Lee, M. S. Kim, S. W. Hong, J. Lee, K. Cho, W. Choi, C. Lee, Visible light-photosensitized oxidation of organic pollutants using amorphous peroxotitanium, *Appl. Catal. B-Environ.*, 2018, 225, 487-495.
- M. S. Kim, H. -J. Lee, K. -M. Lee, J. Seo, C. Lee*, Oxidation of Microcystins by permanganate: pH and temperature dependent kinetics, effect of DOM characteristics, and oxidation mechanism revisited, *Environ. Sci. Technol.*, 2018, 52, 7054-7063.

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RESEARCH INTERESTS

- Water quality control and pollution prevention
- Water treatment using physical/chemical methods (Advanced Oxidation Process)
- Redox technologies for contaminant removal and microbial inactivation