

Ph.D.

Youngwoo Choo

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EDUCATIONAL BACKGROUND

2012 -	Graduate Student, Chemical Engineering Thesis Advisor: Prof. Chinedum Osuji Projects: Magnetic Field Induced Alignment of Liquid Crystalline Block Copolymers, Electrospray Deposition of Block Copolymers	Yale University
2009 - 2011	M.S. Chemical and Biological Engineering Thesis: Effect of Well-Defined Topographical Patterns on the Microdomain Orientation of Block Copolymer Thin Films Thesis Advisor: Prof. Kookheon Char	Seoul National University
2003 - 2009	B.S. Chemical and Biological Engineering	Seoul National University, Republic of Korea

RESEARCH CAREER

2016	Visiting Student, Center for Functional Nanomaterials Brookhaven National Laboratory , Upton, NY Projects: Soft Shear Laser Zone Annealing of Block Copolymers, Developing SAXS Endstation Software
2011 - 2012	Researcher National Creative Research Initiative Center for Intelligent Hybrids Seoul National University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Physical Society
The Polymer Society of Korea
Korean Institute of Chemical Engineers

TEACHING EXPERIENCE

2017	Chemical Engineering Laboratory and Design	Teaching Fellow
2015	Chemical Engineering Laboratory and Design	Teaching Fellow
2014	Thermodynamics for Mechanical Engineers	Teaching Fellow
2013	Ordinary and Partial Differential Equation	Teaching Fellow
2010	Chemical and Biological Process Lab	Teaching Assistant
2009	Elementary Lab for Chemical and Biological Engineering	Teaching Assistant

FELLOWSHIPS

2009 – 2010	Academic Scholarships of Seoul National University
2003 – 2009	Korean National Science & Technology Scholarship

PUBLICATIONS

1. C. Kanimozhi, M. Kim, S. R. Larson, J. W. Choi, **Y. Choo**, D. P. Sweat, C. O. Osuji, P. Gopalan, "Isomeric Effect Enabled Thermally Driven Self-Assembly of Hydroxystyrene-Based Block Copolymers.", *ACS Macro Letters* **5**, 833-838 (2016)