

## PAENG Keewook

**Assistant Professor**  
**Department of Chemistry**



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**Key Words** Heterogeneous dynamics, supercooled liquids and glasses, polymer and soft matter

**Research Area** Polymer and glass dynamics, soft matter physics, single molecule microscopy

**Education**

- 2002-2010      PhD      University of Wisconsin-Madison
- 1999-2001      MS      Hanyang University
- 1992-1999      BS      Hanyang University

**Experience**

- 2011-2015      Postdoctoral fellow, Department of Chemistry, Columbia University
- 2010-2011      Postdoctoral fellow, Department of Chemistry, University of Wisconsin-Madison
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**Position**

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**Selected Publication**

- Ideal probe single molecule experiments reveal the intrinsic dynamic heterogeneity of a supercooled liquid", *Proc Natl Acad Sci U S A*, 112 (16), 4952-4967 (2015)
- Single Molecule Rotational Probing of Supercooled Liquids", *Chem. Soc. Rev.* 43, 977-989 (2014)
- Fast crystal growth induces mobility and tension in supercooled o-terphenyl", *J. Phys. Chem. Lett.* 3, 2562 (2012)
- Molecular mobility in supported polymer thin films of polystyrene, poly(methyl methacrylate), and poly(2-vinyl pyridine) probed by dye reorientation", *Soft Matter* 8, 819 (2012)
- Direct measurement of molecular motion in freestanding polystyrene thin films", *J. Am. Chem. Soc.* 133, 8444 (2011)

**Others**

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