

Speaker Profile



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Name: Jin Kon Kim

Title: Block Copolymer Thin Films: Nanotemplates for New Functional Nanomaterials

Institute: Pohang University of Science and Technology

Education

1985-1990 Ph.D. in Chemical Engineering, Polytechnic University, Brooklyn, New York, USA
1980-1982 M.S. in Chemical Engineering, KAIST, Seoul, Korea
1976-1980 B.S. in Chemical Engineering, Seoul National University, Seoul, Korea

Professional Positions

1982-1985 Researcher at R & D Center, Saehan-Toray Co., Korea
1990-1991 Post Doctor in Chemical Engineering, Polytechnic University, Brooklyn, New York, USA
1991-1993 Senior Research Scientist, Polymer Research Institute, LG Chem. Co., Korea.
1994-1996 Assistant Professor of Department of Chemical Engineering, Pohang University of Science and Technology (POSTECH)
1997 – 2002 Associate Professor at POSTECH
2000-2001 Visiting Professor at University of Massachusetts at Amherst
2003 – Now Professor at POSTECH
2004 – Now Director, Center for Block Copolymer Self-Assembly, National Creativity Research Initiative Program support by KOSEF

Research Field and Interests

- Development of Nanomaterials for separation membranes of viruses and proteins and photovoltaic cells by using self-assembled block copolymer thin film.
- Phase behavior and phase transition of block copolymers with both lower critical disordered-to-order transition and upper critical ordered-to-disordered transition by SAXS, SANS, rheology, and Fourier transformed Infrared Spectroscopy.
- Interfacial properties and interfacial tension measurement of reactive polymer blends.
- Nanocomposites containing polymer blends and organoclay.