

Resume

Prof. Ki-Bum Kim

Department of Materials Science and Engineering

Seoul National University, Korea

Email: kibum@snu.ac.kr

Personal Website: <http://nfl.snu.ac.kr>



Research field: Nanofabrication(Atomic Image Projection E-beam Lithography), Nanofluidics(Nanopore & Nanochannel), Graphene fabrication

Qualifications

- 2016 President, Korea Nano Technology Research Society
- 2007-2008 Visiting Professor, IBM T. J. Watson Research Laboratory
- 1996-1997 Visiting Scientist, Applied Materials Inc. /Stanford University
- 1991-1992 Research Scientist, Applied Materials Inc.
- 1988-1991 Research Scientist, Philips Research Laboratory
- 1983-1990 Ph.D., Stanford University, Materials Science and Engineering
- 1981-1983 MS, Seoul National University, Metallurgical Engineering
- 1976-1980 BS, Seoul National University, Metallurgical Engineering

Publications (selected)

Dong-Kyu Kwak, Hongsik Chae, Mi-Kyung Lee, Ji-Hyang Ha, Gaurav Goyal, Min Jun Kim, Ki-Bum Kim, and Seung-Wook Chi, "Probing the Small-Molecule Inhibition of an Anticancer Therapeutic Protein-Protein Interaction Using a Solid-State Nanopore", *Angew Chem Int Ed*, 55, 1-6 (2016)

Kyeong-Beom Park, Hyung-Jun Kim, Hyun-Mi Kim, Sang A Han, Kang Hyuck Lee, Sang-Woo Kim and Ki-Bum Kim, "Noise and Sensitivity Characteristics of Solid-State Nanopores with a Boron Nitride 2-D Membrane on a Pyrex Substrate", *Nanoscale*, 8, 5755-5763 (2016)

Philippa Nuttall, Kidan Lee, Pietro Ciccarella, Marco Carminati, Giorgio Ferrari, Ki-Bum Kim, and Tim Albrecht, "Single-Molecule Studies of Unlabelled Full-Length p53 Protein Binding to DNA", *JOURNAL OF PHYSICAL CHEMISTRY B*, 120(9) (2016)

Seong-Yong Cho, Min-Sik Kim, Minsu Kim, Ki-Ju Kim, Hyun-Mi Kim, Do-Joong Lee, Sang-Hoon Lee and Ki-Bum Kim, "Self-assembly and continuous growth of hexagonal graphene flakes on liquid Cu", *Nanoscale*, 7, 12820-12827 (2015)

Jae-Seok Yu, Min-cheol Lim, Duyen ThiNgocHuynh, Hyung-Jun Kim, Hyun-Mi Kim, Young-Rok Kim, and Ki-Bum Kim, "Identifying the Location of a Single Protein along the DNA Strand Using Solid-State Nanopores", *ACS NANO*, 9 (5), pp 5289-5298 (2015)

William H. Pitchford, Hyung-Jun Kim, Aleksandar P. Ivanov, Hyun-Mi Kim, Jae-Seok Yu, Robin J. Leatherbarrow, Tim Albrecht, Ki-Bum Kim, and Joshua B. Edel, "Synchronized Optical and Electronic Detection of Biomolecules Using a Low Noise Nanopore Platform", *ACS NANO*, 9(2) (2015)

Seung-Hyun Lee, Hyomin Lee, Tianguang Jin, Sungmin Park, Byung Jun Yoon, Gun Yong Sung, Ki-Bum Kim, and Sung Jae Kim, "Sub-10nm transparent all-around-gated ambipolar ionic field effect transistor", *Nanoscale*, 7, 936 (2015)

(Total 169 SCI papers with a total citation of 3129 and an H-factor of 28)