

IMiD 2020

The 20th International Meeting on Information Display
August 25 - 28, 2020 / Online Conference

Prof. Taek-Soo Kim
(KAIST, Korea)



Taek-Soo Kim

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POSITION

Associate Professor (March 2015 - present)

Assistant Professor (December 2010 – February 2015)

Affiliation: Department of Mechanical Engineering, KAIST

Co-affiliation: KAIST Institute for the NanoCentury, Wearable Platform Materials Technology Center

RESEARCH INTERESTS

Mechanics-related subjects of advanced packaging and thin films: adhesion, deformation, fracture, fatigue, reliability, and stress/strain induced multiphysics phenomena for emerging flexible display, fuel cell, solar cell, battery, and microelectronics technologies.

EDUCATION

Stanford University Stanford, CA, USA

Ph.D. in Mechanical Engineering (January 2010)

Dissertation Title: Fracture and Diffusion in Nanoporous Thin Films

Advisor: Prof. Reinhold H. Dauskardt

Stanford University Stanford, CA, USA

M.S. in Mechanical Engineering (June 2006)

Yonsei University Seoul, Korea

B.S. in Mechanical Engineering (February 2001)

WORK EXPERIENCE

Senior Research Scientist (Sabbatical, January 2016 - January 2017) Houston, TX, USA

Department of Neurosurgery, The University of Texas Medical School

- Development of steerable microcatheters
- Metal interconnection on polymer for steerable microcatheters

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Postdoctoral Research Fellow (January 2010 - November 2010)

Stanford, CA, USA

Department of Materials Science and Engineering, Stanford University

Supervisor: Prof. Reinhold H. Dauskardt

- Measurement of interfacial adhesion in flip chip packages
- Development of hybrid sol-gel adhesion layers
- Improving mechanical reliability of thin films for solar cells

AWARDS & HONORS

1. KAIST Outstanding Faculty Award for Academic Excellence (March 2020)
2. Member of the Young Korean Academy of Science and Technology (January 2020)
3. Excellent Paper Award from the Korean Microelectronics and Packaging Society (2019.12.13)
4. Research Excellence Award on Experimental Mechanics from the Korean Society of Mechanical Engineers (2018.6.29)
5. The Outstanding Lecture Award (ME574 Joining Engineering) from KAIST Mechanical Engineering Department (2018.2.22)
6. 2015 KINC Fusion Research Award, KAIST KINC (2016.3.8)
7. The 2013 Technology Innovation Award (Outstanding Prize), KAIST (December 2013)
8. The Outstanding Lecture Award (MAE231 Solid Mechanics) from KAIST Mechanical Engineering Department (September 2011)

PUBLICATIONS

JOURNAL PUBLICATIONS

Total citation = 5379, h-index = 30

<The list of 137 journal papers in Google Scholar>

https://scholar.google.co.kr/citations?hl=en&user=ADI_2i8AAAAJ