
Dae-Sik Lee (Name)

Project Leader/Principal Researcher, Electronics and Telecommunications Research Institute (ETRI) (Position, Affiliation)

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EDUCATION

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|-------------------------------|------|------------------------------------|-------------|
| Waseda University | Ph.D | Nano Science & Nano Engineering | 2009 |
| Kyungpook National University | Ph.D | Electronic Engineering | 2000 |
| Kyungpook National University | MS | Electronic Engineering | 1997 |
| Kyungpook National University | BS | Electronic Engineering | 1995 |

PROFESSIONAL ACTIVITIES

- Principal Researcher/Project Leader, BT Convergence Research department, Korea (December 2000 to present)
- Steering Committee Member, Korean Biochips Society, (January 2005 to present)
- Expert, The Global Network of Korean Scientists & Engineers (KOSEN) (January 2006 to present)
- Steering Committee Member, MicronaoSystems Society, (January 2015 to present)
- Steering Committee Member, Korean Sensors Society, (January 2015 to present)
- Associaate Professor, Department of Nanobio Engineering, University of Science and Technology (UST), Korea (March 2011 to February 2018)
- Visiting researcher, Engineering Department, University of Cambridge, UK (July 2006 to August 2006)
- Postdoctoral Researcher, Environmental Gas Monitoring Lab. (NRL), Kyungpook National University (August 2000 to December 2000)

AWARD AND HONORS

- BEST AWARD of MINISTRY OF SCIENCE, ICT AND FUTURE PLANNING (대덕연구개발특구 사업화대상수상, 미래창조과학부 장관상) (2015.12.23.)
- ETRI Journal Award Winners in the Year (2012)
- Marquis Who's Who in the World (2012-2013)
- Superior Researcher Awards (ETRI) (2011)
- American Biographical Institute, Professional Hall of Fame (2011)

- IBC 2016 Outstanding Engineering Achievement (2016~2018)
- Marquis Who's Who in the World (2011 to present)
- IBC 2000 Outstanding Intellectuals of the 21st Century (2011/2012)
- Technology Innovation Award, Korean BioChip Society (KBCS), 2010
- Superior Researcher Awards (ETRI) (2005)

MAIN SCIENTIFIC PUBLICATION

- Adv. Mater. 24, 4408, (2012).
- Adv. Mater. 22,483, (2011).
- Nanoscale, 9, 13457, (2017).
- ACS Appl. Mater. Interfaces. 8(5), 3233, (2016).
- Sens Actuators B: Chem., 292, 289, (2019).
- Sens Actuators B: Chem., 287, 437, (2019).
- Sens Actuators B: Chem., 255,800, (2018).
- Sens Actuators B: Chem., 255, 384, (2018).
- Sens Actuators B: Chem. 257, 846, (2018)
- ACS J. Phys. Chem. C. 118, 25994, (2014)
- Sens Actuators B: Chem., 203, 282, (2014).
- Lab Chip, 11, 120, (2011).
- App. Phys. Lett., 96, 213105, (2010)
- IEEE Sensors, 8, 558, (2008)
- Anal. Chem. 77, 5414, (2005)
- Anal. Chem. 77, 6494, (2005)
- Lab Chip, 4, 401, (2004)
- IEEE Sensors, 1 (3), 214 (2001)
- Sens. Actuators B: Chem., 77, 228 (2002)
- Sens. Actuators B: Chem., 60, 57 (1999)

RESEARCH INTERESTS

- BioMEMS, DNA/protein/cell Lab-on-a-chip (LOC), Microfluidics (micro pump, valve, mixer, filter etc.), Microfluidic PCR chip
- Sensor array using metal oxide-based sensors (thick film, thin film, and micronano, MEMS), conducting polymer sensors (polypyrrole-based materials) and machine learnings.
- Basic semiconductor & MEMS simulation, micro-nano science and fabrication process, characterization techniques.