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EDUCATION

Chonbuk National University	Ph.D	Physics	2001
Pohang Institute of Science & Technology	MS	Physics	1991
Ewha University, Seoul, Korea	BS	Physics Education	1989

PROFESSIONAL ACTIVITIES

- 2001.9-2003.8. Postdoctoral fellow, Department of Nanoscience, Delft University in the Netherland
- 2003.10-2009. 12. Senior Researcher; Fusion-Biotechnology Research Center, Division of Advanced Materials, Korea Research Institute of Chemical Technology (KRICT)
- 2010.1-present Principal Researcher; Division of Advanced Materials, Korea Research Institute of Chemical Technology (KRICT)

AWARD AND HONORS

- Vice president, Korea Biochip Society (2017)

MAIN SCIENTIFIC PUBLICATION

- “Lattice Transparency of Graphene” Sieun Chae, Seunghun Jang, Won Jin Choi, Youn Sang Kim, Hyunju Chang, Tae Il Lee, and Jeong-O Lee, Nano. Lett. 17, 1711 (2017)
- ““Atomic Force Masking” Induced Formation of Effective Hot Spots along Grain Boundaries of Metal Thin Films, Kwang Hyun Kim, Soo Sang Chae, Seunghun Jang, Won Jin Choi, Hyunju Chang, Jeong-O Lee and Tae Il Lee. ACS Applied Materials & Interfaces 8,32094 (2016)
- “Simple Interface Engineering of Graphene Transistors with Hydrophobizing Stamps” Soo Sang Chae, Won Jin Choi, Cheol-Soo Yang, Tae Il Lee, and Jeong-O Lee, ACS Applied Materials & Interfaces 8, 14307 (2016)
- “Chemically exfoliated transition metal dichalcogenide nanosheet-based wearable thermoelectric generators” Jin Young Oh, Ji Hoon Lee, Sun Woong Han, Soo Sang

Chae, Eun Jin Bae, Young Hun Kang, Won Jin Choi, Song Yun Cho, Jeong-O Lee, Hong Koo Baik and Tae Il Lee, *Energy & Environmental Science* 9, 1696 (2016)

- “Anti-cancer activity of ZnO chips by sustained zinc ion release” Seong-Hee Moon, Won Jin Choi, Sik-Won Choi, Eun Hye Kim, Jiyeon Kim, Jeong-O Lee and Seong Hwan Kim, *Toxicology Reports* 3, 430 (2016)
- “Inflammatory Bone Resorption and Osteosarcoma Potentials of Zinc Ion Sustained Release ZnO Chips: Friend or Foe?” Sik-Won Choi, Won Jin Choi, Eun Hye Kim, Seong-Hee Moon, Sang-Joon Park, Jeong-O Lee and Seong Hwan Kim, *ACS Biomaterials Sciences and Engineering*, 2, 494 (2016)
- “Carbon-Passivated Ni electrodes for charge injection in organic semiconductors” Tindara Verduci, Cheol-Soo Yang, Laetitia Bernard, Geonhee Lee, Sami Boukari, Emanuele Orgiu, Paolo Samori, Jeong-O Lee and Bernard Doudin, *Adv. Mater. Interfaces* 2016, 1500501
- “Enhancing gas sensing properties of graphene by using a nanoporous substrate” Cheol-Soo Yang, Ather Mahmood, Bongseock Kim, Kyusoon Shin, Do Hyun Jeon, Jin Kyu Han, Sang Don Bu, Serin Park, Won Jin Choi, Bernard Doudin and Jeong-O Lee. *2D Mater.* 3, 011007 (2016)
- “Micropillar arrays as potential drug screens: Inhibition of micropillar-mediated activation of the FAK-Src-paxillin signalling pathway by the CK2 inhibitor CX-4945” Jiyeon Kim, Won Jin Choi, Seong-Hee Moon, Jongjin Jung, Joung Kyu Park, Seong Hwan Kim, Jeong-O Lee, *Acta Biomaterialia* 27, 13 (2015)
- “Performance assessments of vertically aligned carbon nanotubes multi-electrode arrays using Cath.a-differentiated (CAD) cells”, Du Won Jeong, Jongjin Jung, Gook Hwa Kim, Cheol-Soo Yang, Ju Jin Kim, Sang Don Jung and Jeong-O Lee, *Nanotechnology* 26, 335701 (2015)

RESEARCH INTERESTS

- Finding unexplored applications of nanocarbon materials
- Cell-tissue engineering using artificial (fabricated structures) structures and materials