Junghoon Jahng

Affiliation: Principal Research Scientist, Hyperspectral Nano-imaging Lab, Korea Research Institute of Standards and Science, Daejeon, South Korea (ROK)
Email: phyjjh@kriss.re.kr (Phone: +82-42-868-5466)

Education

Ph.D.	Physics and Astronomy	University of California, Irvine	Jun. 2016
	(Chemical and Materials Physics, Advisor: Prof. Eric O. Potma)		
M.S.	Physics and Astronomy	Seoul National University	Aug. 2007
B.S.	Physics	University of Seoul	Feb. 2005

Research Experiences

1. Mar. 2022 ~ Current: Principal Research Scientist, Hyperspectral Nano-imaging Lab, Korea Research Institute of Standards and Science, Daejeon, South Korea
2. Jun. 2020 ~ Feb. 2022: Senior Research Scientist, Hyperspectral Nano-imaging Lab, Korea Research Institute of Standards and Science, Daejeon, South Korea
3. Nov. 2016 ~ Nov. 2019: Postdoctoral fellow (Korea Research Fellow), Center for Nanocharacterization, Korea Research Institute of Standards and Science, Daejeon, South Korea
4. Feb. 2014 ~ Oct. 2016: Research consultant, Molecular Vista Inc., San Jose, USA
5. Aug. 2007 ~ Mar. 2009: Researcher, Park systems, Suwon, South Korea

Selected Academic honors

1. *"OSK Rising Star 30"* in Korea Optical Society 2020
2. *"Best Post-doctor Award"* in Korea Research Institute of Standards and Science 2019
3. *"Korea Research Fellowship 2016"* in Ministry of Science, ICT and Future Planning through the National Research Foundation of Korea
4. "*Graduate Student Gold Award"* in 2014 Material Research Society Fall meeting
5. "*Best Poster Award in Symposium PP"* in 2014 Material Research Society Fall meeting

News in public press

1. "Emerging a microscope that penetrates deep into semiconductor defects", *YTN*, 2018. 12. 11. (https://www.ytn.co.kr/_ln/0115_201812110222574578)
2. E. O. Potma, J. Jahng *et al.*, "Nanoscopic imaging with optical forces", *SPIE Newsroom*, (DOI: 10.1117/2.1201510.006171), 27 November (2015).

Selected Publications

1. AA Sifat, J Jahng, EO Potma, "Photo-induced force microscopy (PiFM)–principles and implementations", *Chem. Soc. Rev.,* **51**, 4208–4222 (2022).
2. J. Jahng et al., "Nanoscale spectroscopic origins of photoinduced tip-sample force in the mid-infrared: dipole and thermal", *Proc. Natl. Acad. Sci.*, **116** (52), 26359-26366 (2019).
3. J. Jahng et al., "Linear and nonlinear optical spectroscopy at the nanoscale with photo-induced force microscopy", *Acc. Chem. Res*. **48** (10), 2671-2679 (2015)