



KSUM 2023 Invited Speaker's CV

All fields marked with an asterisk (*) should be completed.

Name*	Hyung Ham Kim	
EDUCATIONAL BACKGROUND		
Country*	Korea	
Current Affiliation*	Pohang University of Science and Technology	
Specialty*	Ultrasound transducers, ultrasound imaging, ultrasound therapy, cell mechanics	
Education* (100 words)	Bachelor of Science (B.S.) in Electrical Engineering, 03/1989 – 02/1993 Korea Advanced Institute of Science and Technology, Daejeon, Korea	
Post-Graduate Education* (100 words)	Doctor of Philosophy (Ph.D.) in Biomedical Engineering, 06/2006 – 05/2010 University of Southern California, Los Angeles, California, United States NIH Resource Center for Medical Ultrasonic Transducer Technology Dissertation: Array Transducers for High Frequency Ultrasound Imaging Master of Science (M.S.) in Biomedical Engineering, 08/2004 – 05/2006 University of Southern California, Los Angeles, California, United States Master of Science (M.S.) in Electronics Engineering, 03/1993 – 02/1995 Seoul National University, Seoul, Korea	



<p>Academic Appointments* (200 words)</p>	<p>Pohang University of Science and Technology, 08/2016 – Present Associate Professor Department of Electrical Engineering Department of Convergence IT Engineering (Joint Appointment) School of Convergence Science and Technology (Joint Appointment) School of Interdisciplinary Bioscience and Bioengineering (Adjunct) Graduate School of Artificial Intelligence (Adjunct)</p>
<p>Scientific Publications* (200 words)</p>	<p>Kim H, Yoo J, Heo D, Seo Y, Lim HG*, and Kim HH*, “High-attenuation backing layer for miniaturized ultrasound transducer,” IEEE Trans. Ultrasonics Ferroelectr. Freq. Contr., vol. 69, no. 6 (2022)</p> <p>Yoo J, Kim H, Kim Y, Lim HG* and Kim HH*, “Collapse pressure measurement of single hollow glass microsphere using single-beam acoustic tweezer,” Ultrasonics Sonochemistry, Volume 82, January 2022, 105844.</p> <p>Kim Y, Kim J, Ahn J, Han M, Lim HG, Lee KJ, Lee J*, Kim C*, and Kim HH*, “Detection of micro inclusions in steel sheets using high frequency ultrasound speckle analysis” Scientific Reports (2021) 11:20416</p> <p>Kim K, Yoo J, Lim HG, Lee M, Park SM, and Kim HH* “Lead-Free Piezoelectric Composite With Lithium Niobate and Barium Titanate Fabricated by Interdigital Pair Bonding Technique” IEEE Access 2021, 9, 85894-85902</p> <p>Park J, Park B, Kim TY, Jung S, Choi WJ, Ahn J, Yoon DH, Kim J, Jeon S, Lee D, Yong U, Jang J, Kim WJ, Kim HK*, Jeong U*, Kim HH*, and Kim C*, “Quadruple ultrasound, photoacoustic, optical coherence, and fluorescence fusion imaging with a transparent ultrasound transducer,” Proceedings of the National Academy of Sciences, 118, 11, e1920879118, 2021</p>