

Recent Selected Publications of KRISS CCAUV (2021-2023)

Journal Papers:

- S.-H. Go, Y.-G. Chae, S.-J. Chae, E.-J. Kim, H.-M. Yu, W.-H. Cho and S. Nahm, Piezoelectric properties of [001]-textured (K, Na)(Nb, Sb)O₃-CaZrO₃-(Ag, Bi)ZrO₃ ceramics and their application in panel loudspeakers, *Journal of Alloys and Compounds*, Vol. 968, 17195 (2023).
- J. Lee, W.-H. Cho, T. H. Kong, S.-S. Jung, W. Han, S. Park and Y. J. Seo, Contralateral bone conducted sound wave propagation on the skull bones in fresh frozen cadaver, *Scientific Reports*, Vol. 13, 7479, (2023).
- S. Y. Lee, C.-S. Park, K. Park, H. J. Lee, S. Lee, A Physics-informed and data-driven deep learning approach for wave propagation and its scattering characteristics, *Engineering with Computers*, Vol. 39, pp. 2609–2625 (2023).
- I.-J. Jung and J.-G. Ih, Design of a compact omnidirectional sound camera using the three-dimensional acoustic intensimetry, *Mechanical Systems and Signal Processing*, Vol 172, 108970 (2022).
- S. Y. Lee, J. Chang, and S. Lee, Deep Learning-Enabled High-Resolution and Fast Sound Source Localization in Spherical Microphone Array System, *IEEE Transactions on Instrumentation and Measurement*, Vol. 71, 2506112 (2022).
- W.-H. Cho, J.-H. Chang and S.-H. Shin, Effect of configuration changes on the acoustic transfer function of a vehicle interior, *Applied Acoustics*, Vol. 193, 108759 (2022).
- W.-H. Cho, S.-H. Shin and J.-G. Ih, Sound quality change of the automotive engine noise by variation of engine oil condition, *Journal of Mechanical Science and Technology*, Vol. 36, pp. 4935-4942, (2022).
- J. H. Park, P. S. Ma, H. J. Lee, Integrated acoustic multilayer metasurfaces for high degree of diffractive functionality, *International Journal of Mechanical Sciences*, Vol. 233, 107653 (2022).
- S. Hur, H. Choi, G. H. Yoon, N. W. Kim, D.-G. Lee, Y. T. Kim, Planar ultrasonic transducer based on a metasurface piezoelectric ring array for subwavelength acoustic focusing in water, *Scientific Reports*, Vol. 12, 1485 (2022).
- B. C. F. Elmina, K. Baik, S. M. Kim, Y. T. Kim. Precise measurement of sound speed in hydrogel tissue-mimicking material by a through-transmission method. *Journal of the Korean Physical Society*, Vol. 81, pp. 921-930 (2022).
- J.-H. Chang, S.-Y. Lee, S.-C. Lee, Deep learning-based method for multiple sound source localization with high resolution and accuracy, *Mechanical Systems and Signal Processing*, Vol. 161, 107959 (2021).
- J.-H. Chang and I. Doh, Deep learning-based robust automatic non-invasive measurement of blood pressure using Korotkoff sounds, *Scientific reports*, Vol. 11, 23365 (2021).
- C.-H. Jeong, W.-H. Cho, J.-H. Chang, S.-H. Lee, C.-W. Kang and J.-G. Park, “Noise and acoustic conditions of premises for hearing impaired people in Korea,” *Noise Control Engineering Journal*, Vol. 69(1), pp. 77-85 (2021).
- N. Yusof, W.-G. Kim, K. Baik, S. M. Kim, H. Lee, Y. T. Kim, “Frequency-Dependent Focal Length of a Plano-Spherical Convex Subsonic Index Lens,” *Journal of the Korean Physical Society*, Vol. 78, pp. 784–795 (2021).
- H.-M. Cho, C. Lee, H. Kim, Y. T. Kim, T. J. Shin, B. Ahn, “Development of length standard phantom for length measurement correction in X-ray image,” *Review of Scientific Instruments*, Vol. 92, 084104 (2021).
- H. S. Cho, H.-Y. Moon, H. S. Lee, Y. T. Kim, S. C. Jeoung, Formulation prediction for Young's modulus of Poly(dimethylsiloxane) by spectroscopic methods, *Bulletin of the Korean Chemical Society*, Vol. 42(9), pp. 1225-1231 (2021).

- N. Samiudin, I. Yang, Y. T. Kim, I. Doh. "High-Intensity Focused Ultrasound thermometry: A Two-Dimensional Resistance Temperature Detector Array in a Tissue-Mimicking Material," IEEE Sensors Journal, Online published (2021).
- N. Yusof, S. M. Kim, Y. T. Kim, "Acoustic Refractive Index Measurement Using Tone-Burst Signal as An Alternative to Broadband Pulse by Through-Transmission Method," Journal of Korean Society of Nondestructive Test, Vol. 41(3), pp. 155-163 (2021).