

Seokwan Roh

- Ph.D. course
- Department of Mechanical Engineering
- Korea Advanced Institute of Science and Technology (KAIST)
- Office: Mechanical Engineering Building (N7-4) Room #3101
- Email: veritas0520@kaist.ac.kr
- Research interest: Condensation heat transfer, Surface treatment, Nanoscale measurement using atomic force microscopy.



Academic Experiences

Korea Advanced Institute of Science and Technology (KAIST): Ph.D. (2024.02 – Present)

Korea Advanced Institute of Science and Technology (KAIST): M.S. (2022.02 – 2024.02)

Hanyang University B.S. (2016.03 – 2022.02)

Journal Publications:

Conference Presentations:

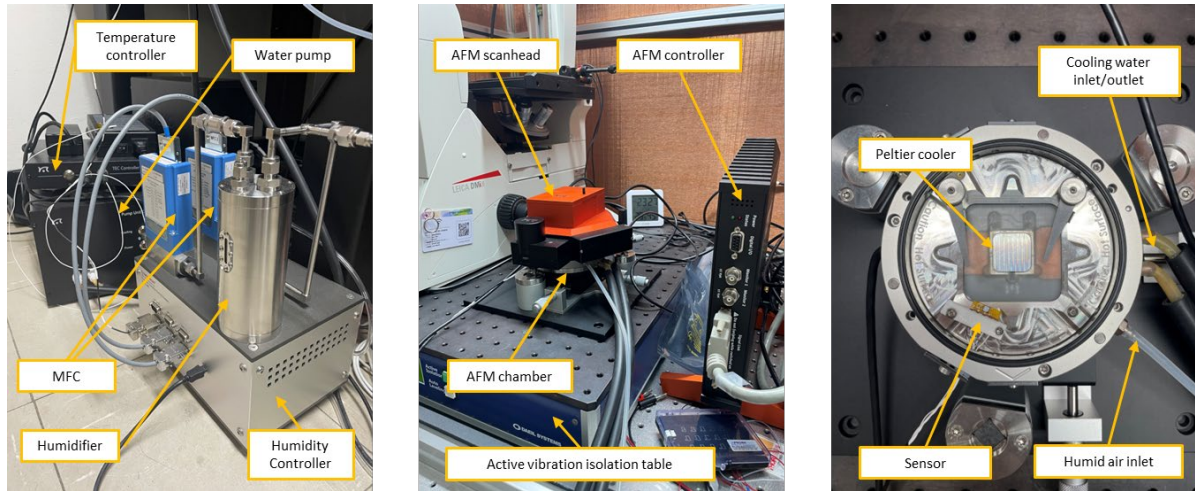
- 1) J. Shim, K. Shim, J. Kim, **S. Roh**, S. Bang, Y. Kim, B. Park, R. Raj, Y. Nam, Strategies for Enhanced Dropwise Condensation by Incorporating Interfacial Adsorption of Amphiphilic Molecules, KSME spring, Busan, Republic of Korea, Apr. 19-22, 2023
- 2) K. Shim, J. Shim, J. Kim, **S. Roh**, S. Bang, R. Raj, Y. Nam, Transition of Condensation Mode via Adsorption of Volatile Amphiphilic Molecules, KSME fall, Incheon, Republic of Korea, Nov. 1-3, 2023
- 3) **S. Roh**, J. Kim, K. Shim, J. Shim, D. Lee, J. Lee, Y. Nam, Measuring the Initial Stage of Dropwise Condensation using Atomic Microscopy, KSME fall, Incheon, Republic of Korea, Nov. 1-3, 2023

Award:

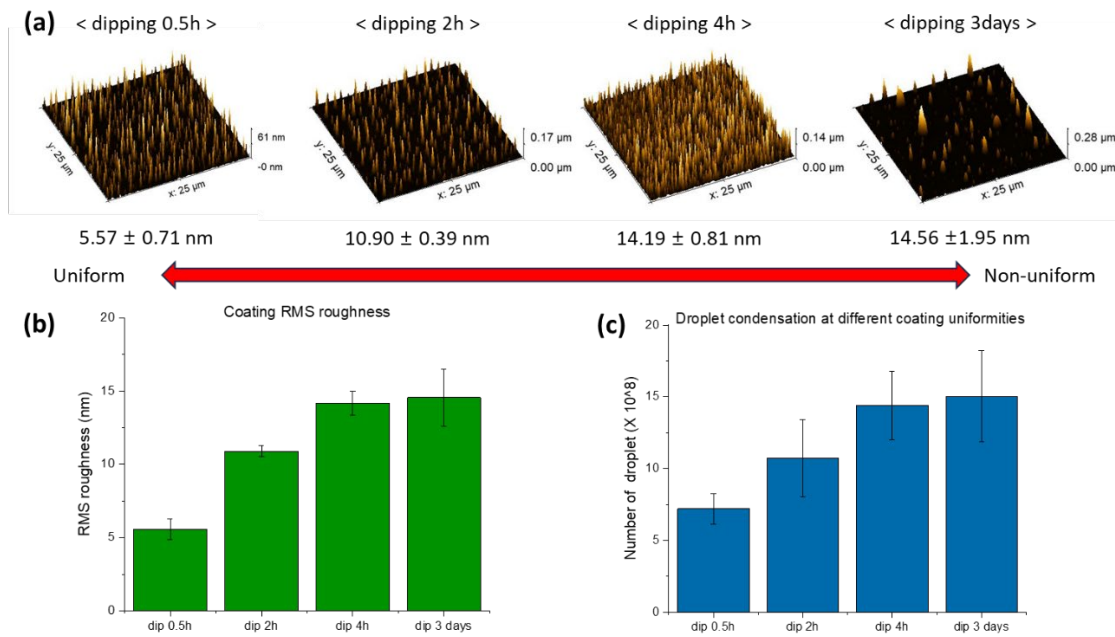
Patent

Research Topics:

1) Environmental Atomic Force Microscopy with Precise Condensation Control



2) Effect of Coating Uniformity on Condensation



3) Initial Stage of Condensation on Nanostructure

