



Supplement of

Atmospheric nanoparticles hygroscopic growth measurement by a combined surface plasmon resonance microscope and hygroscopic tandem differential mobility analyzer

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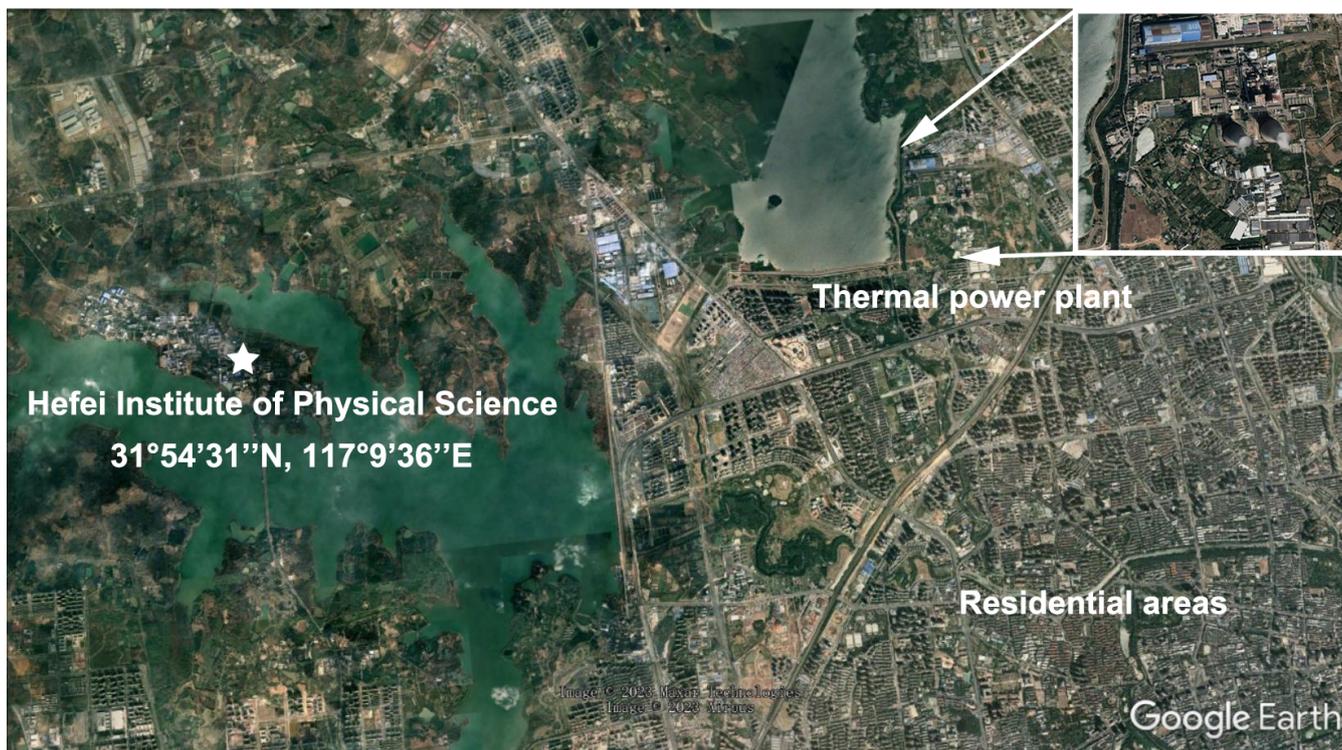


Figure S1: The location of Hefei Institute of Physical Science (image © 2023 Maxar Technologies).

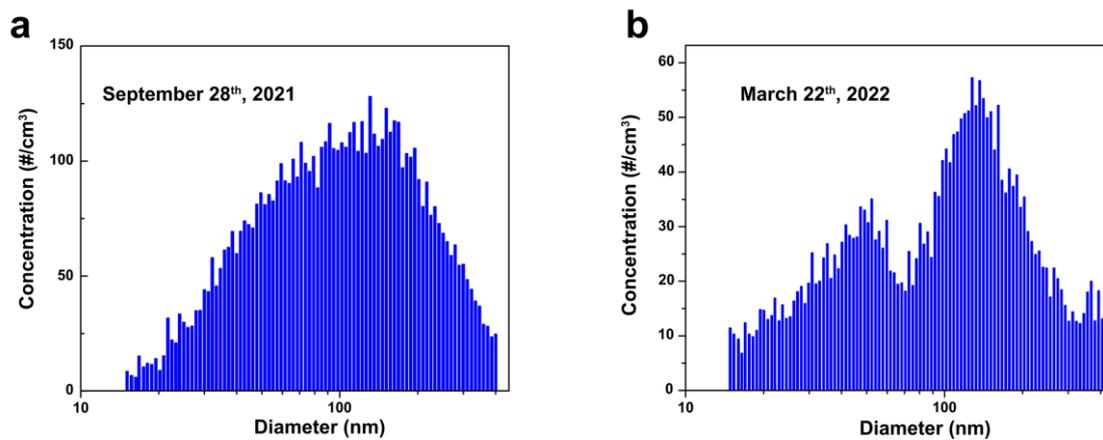


Figure S2: The particle size spectrum of dry atmospheric nanoparticles on at noon, September 28th, 2021 and March 22th, 2022 in Hefei China.

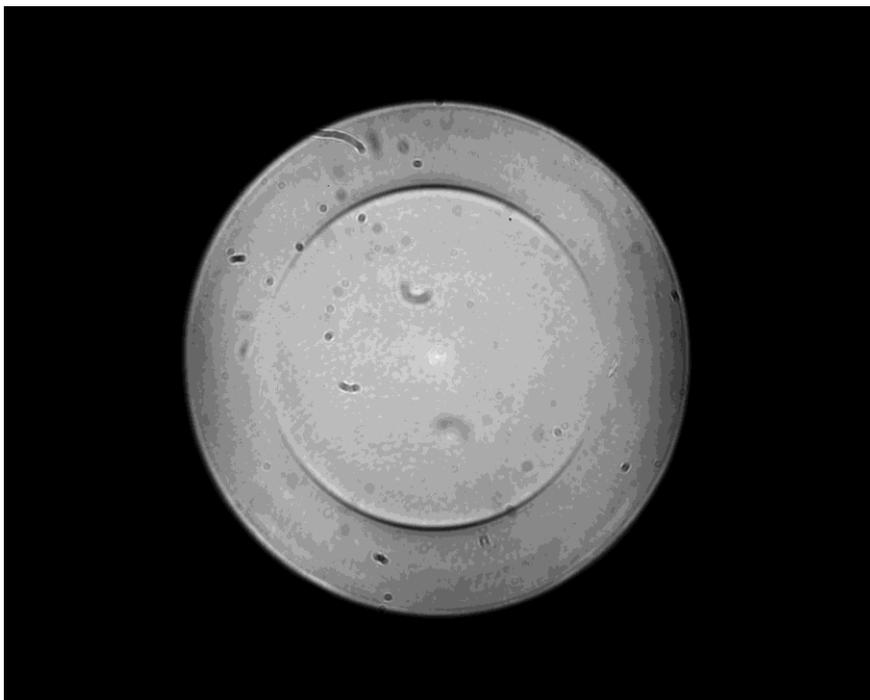


Figure S3: Reflection BFP image of 45 nm Au film.

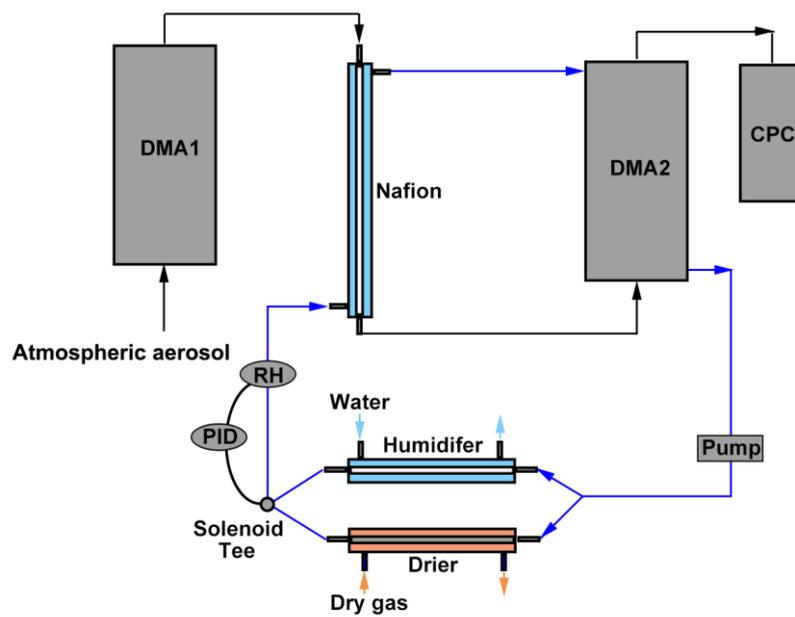


Figure S4: Schematic diagram of HTDMA.

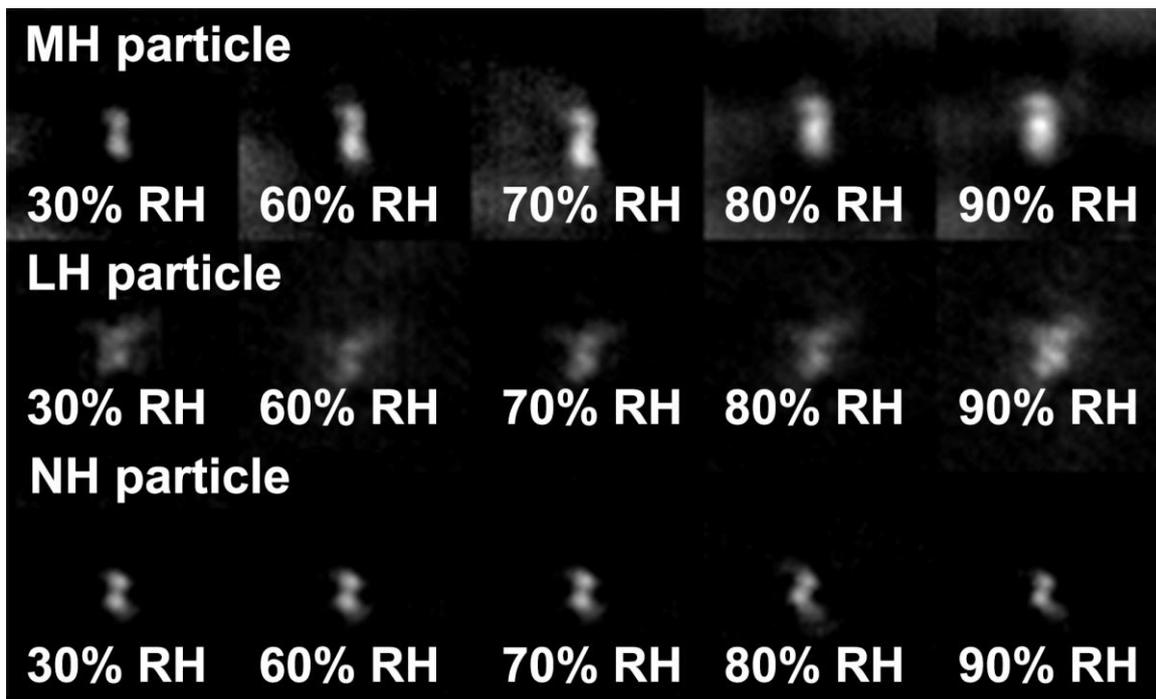


Figure S5: The SPRM hygroscopic growth test results of 150 nm atmospheric particles on September 28th, 2021.

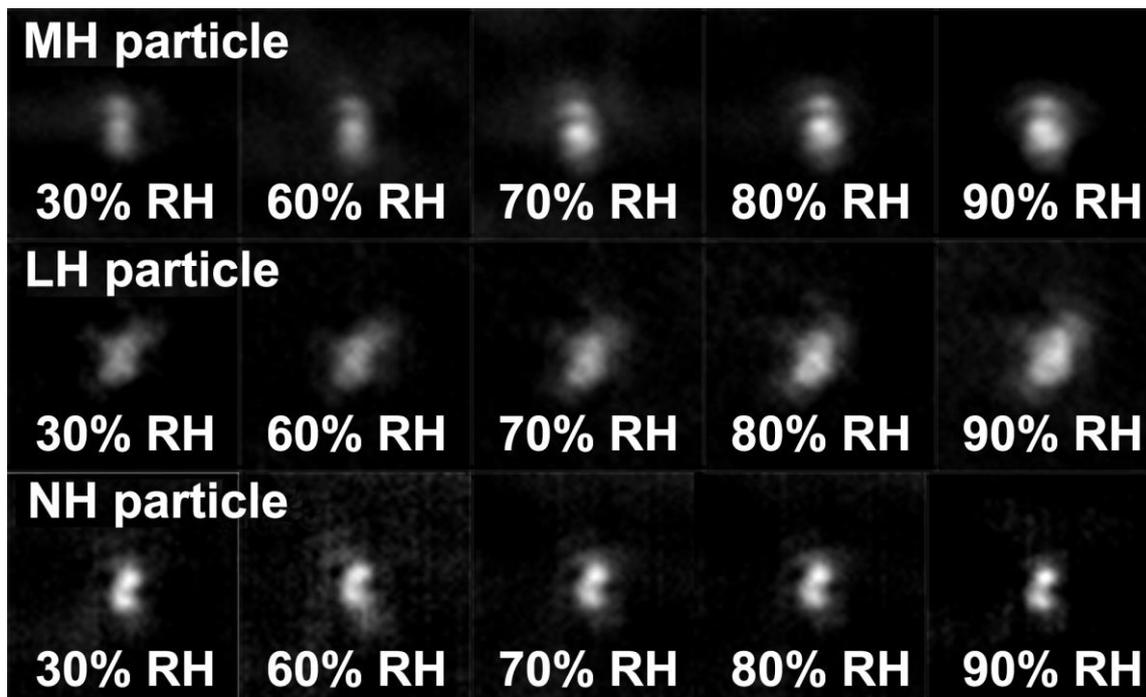


Figure S6: The SPRM hygroscopic growth test results of 200 nm atmospheric particles on September 28th, 2021.

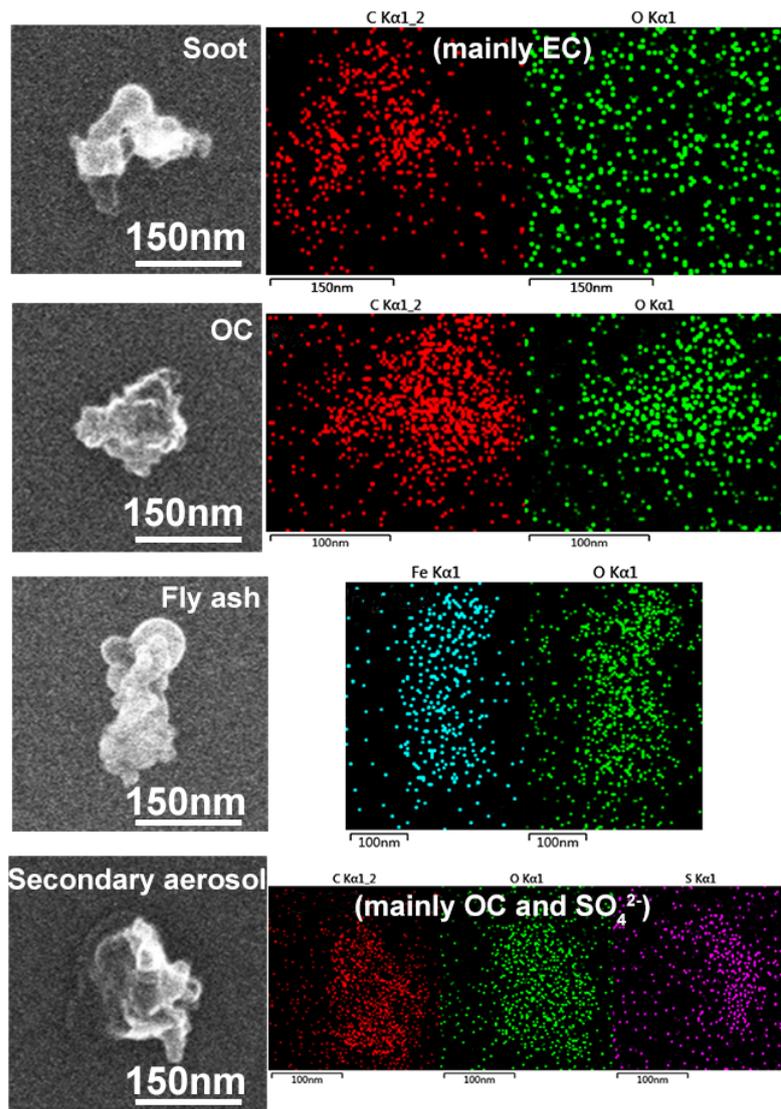


Figure S7: EDS mapping results of 150 nm atmospheric particles on September 28th, 2021.

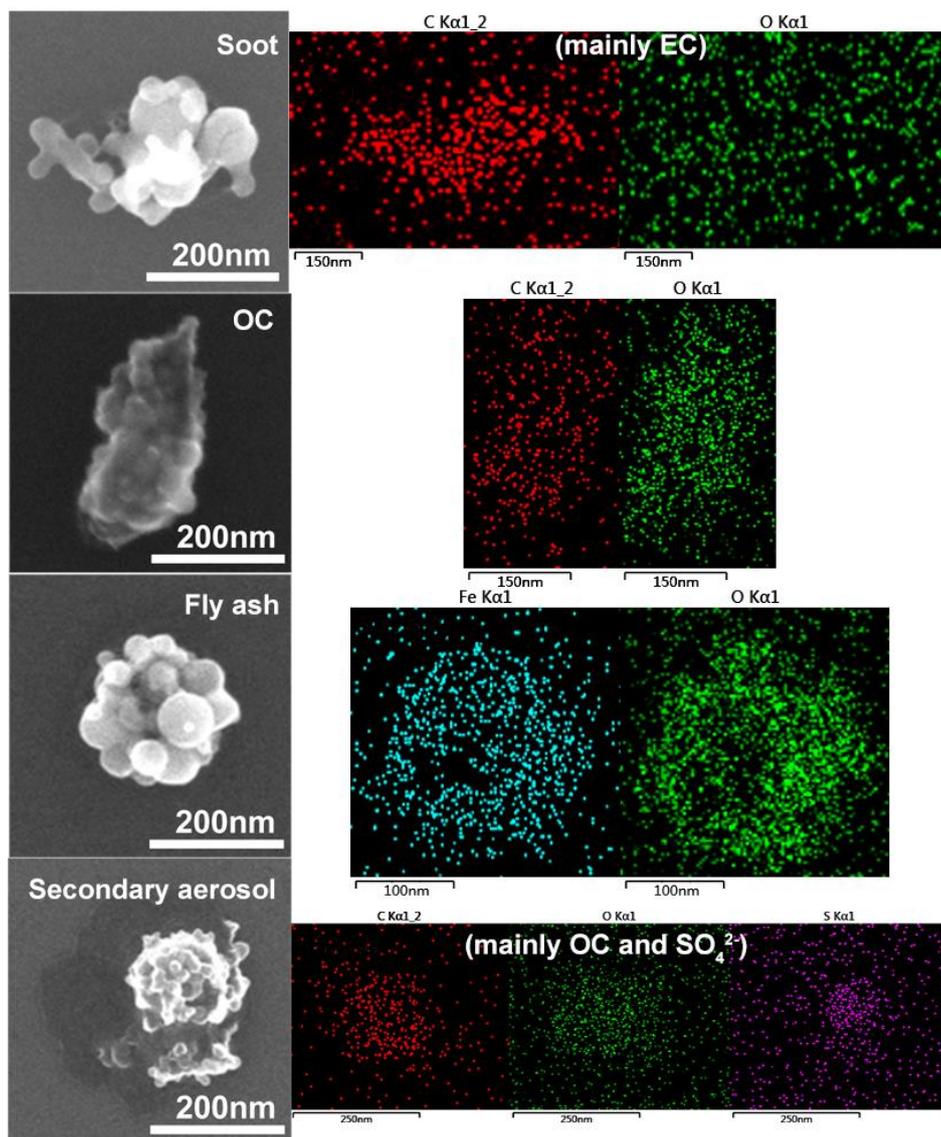


Figure S8: EDS mapping results of 200 nm atmospheric particles on September 28th, 2021.

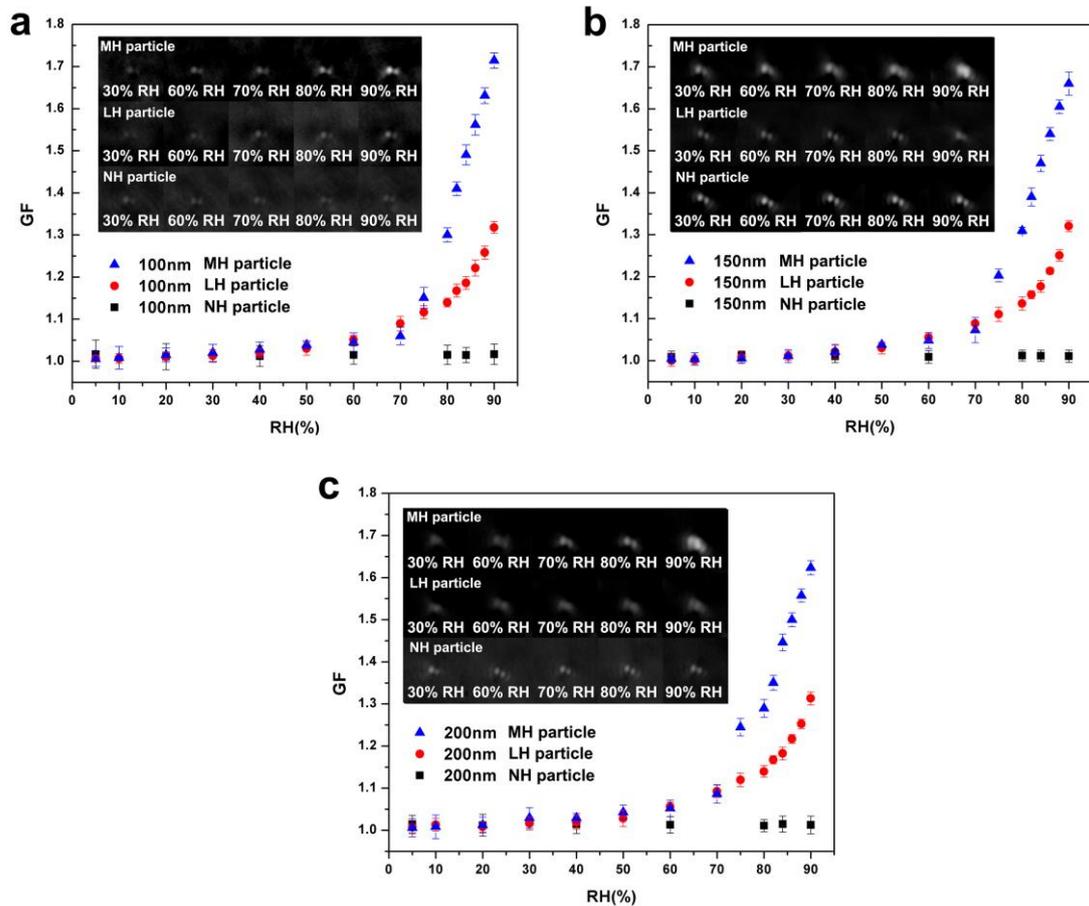


Figure S9: SPRM-ARI hygroscopic growth factors of 100, 150, and 200nm atmospheric particles on March 22th, 2022.