

Supplementary Information for

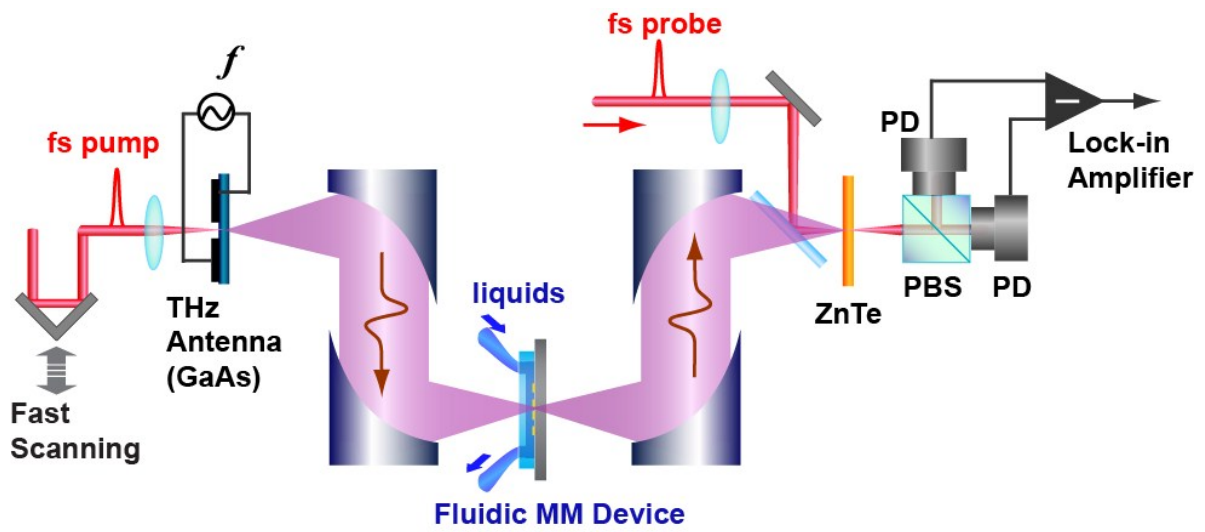
Dielectric constant measurements of thin films and liquids using terahertz metamaterials

S. J. Park, S. A. N. Yoon, and Y. H. Ahn*

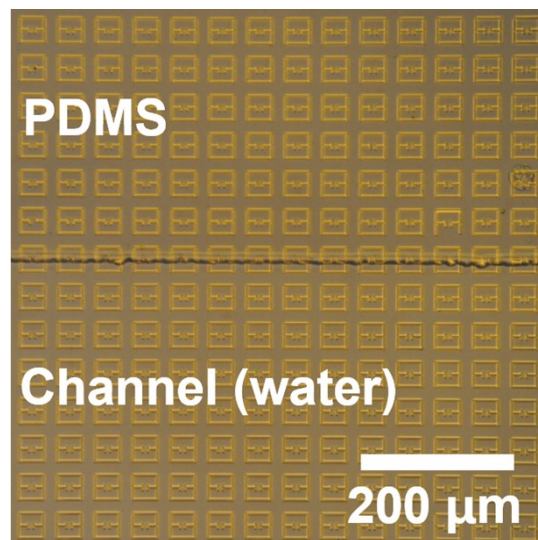
Department of Physics and Department of Energy Systems Research, Ajou University,

Suwon 16499, Korea

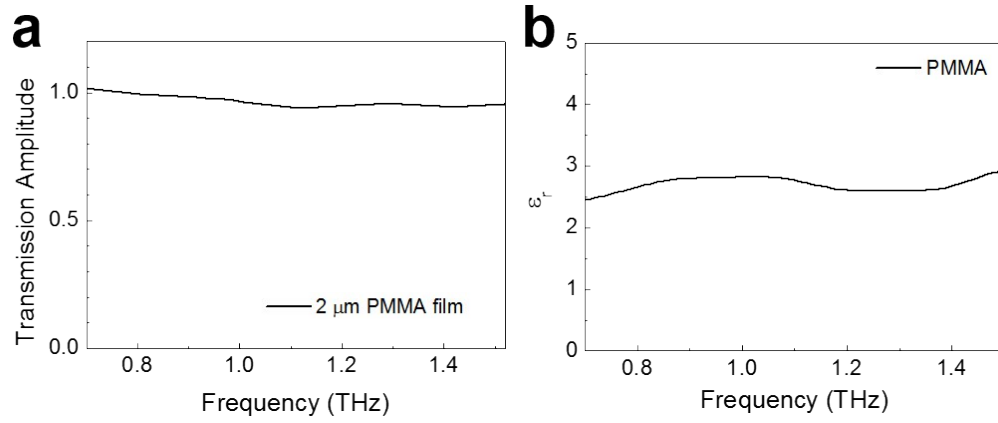
* E-mail: ahnhy@ajou.ac.kr



Supplementary information S1. Schematic illustration of THz-TDS system. (PD: photodiode, PBS: polarized beam splitter, MM: metamaterials)



Supplementary information S2. Microscopic image of a fluidic metamaterial device with the injection of water



Supplementary information S3. (a) THz transmission amplitude of 2-μm-thick PMMA film as a function of frequency **(b)** Dielectric constant of PMMA film extracted from (a).