



Showcasing research on Cost effective, rapid prototyping of 3D printing microwave sensors for microfluidic droplet monitoring from the Laboratory of Applied Microfluidics, Cardiff University, Wales, United Kingdom.

3D-printed microfluidic-microwave device for droplet network formation and characterisation

We present advancement in the field of microfluidic-microwave devices (MMDs), showcasing a novel 3D-printing approach to integrate liquid metal as an electrical conductor in the rapid prototyping of customized MMDs. This development opens new possibilities for sensitive, non-invasive characterization of low-volume liquids which is pivotal for applications in synthetic biology, biochemical research, and soft material studies. Image designed and illustrated by Adam Chard at *Croatoan Design*.

As featured in:



See Kai Silver *et al.*,
Lab Chip, 2024, **24**, 5101.