Dropwise Digital Printing of Metals

**Microparticle Ejection + Laser Melting**

- Key attributes of the process
  - On-demand metal deposition with µm scale resolution.
  - Digital thermal control without requiring heated nozzle.
  - Capable of multi-material printing and direct printing onto existing objects.

**Droplet Morphology Control**

**Droplet-Substrate Interaction**

Kaihao Zhang, Henry Merrow, Justin D. Beroz, Ulrich P. Muecke, and Prof. A. John Hart
Mechanosynthesis Group, Department of Mechanical Engineering