

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: DSP in Action, printing porous and transparent structures.

File Name: Supplementary Movie 2

Description: High Speed Imaging Videos of Fig. 2e, Combination of 12 static printing tests for different h related to Fig. 2e where only the test at h=30mm is illustrated.

File Name: Supplementary Movie 3

Description: High Speed Imaging Video of Fig. 2f, 7x magnification high speed imaging footage of the static printing test at h=22mm. This video is the footage illustrated in Fig. 2f.

File Name: Supplementary Movie 4

Description: High Speed Imaging of DSP while printing porous structure in Fig. 3.

File Name: Supplementary Movie 5

Description:

High Speed Imaging of DSP while printing transparent structure in Fig. 3.

File Name: Supplementary Movie 6

Description: Particle Image Velocimetry (PIV) of extremely high power vs printing power in DPS as in Supplementary Fig. 8d and e.

File Name: Supplementary Movie 7

Description: DSP/RDP of Opaque Silica/Alumina-PDMS Colloidal Solution.

File Name: Supplementary Movie 8

Description: DSP/RDP of Opaque Fe-PDMS Colloidal Solution

File Name: Supplementary Movie 9

Description: DSP/RDP in action while real porcine tissue, containing muscle, fat and skin.

File Name: Supplementary Movie 10

Description: DSP/RDP in action while a tissue phantom.

File Name: Supplementary Movie 11

Description: AuINs are patterned and Synthesized using DSP for the surface of a collecting chamber of a biosensing platform.

File Name: Supplementary Movie 12

Description: Patterning and Synthesizing AuINs using DSP in the Shape of a Maple Leaf to demonstrate the flexibility of DSP in patterning geometry.

File Name: Supplementary Movie 13

Description: Patterning and Synthesizing AuINs using DSP in the Shape of a spiral to demonstrate the flexibility of DSP in patterning geometry.