

Nonequilibrium structure formation in electrohydrodynamic emulsions - Supporting information

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All videos are shown at a frame rate of 20 frames/second, with each frame capturing a snapshot every $\Delta t = 5000$, $\tau = 25$.

Supplementary video 1: Three dimensional view of simulation for $R = 0.2$, $S = 4.9$, and $M = 1$. The electric field points in the vertical direction.

Supplementary video 2: Three dimensional view of simulation for $R = 0.2$, $S = 0.1$, and $M = 1$. The electric field points in the vertical direction.

Supplementary video 3: Three dimensional view of simulation for $R = 0.2$, $S = 16$, and $M = 1$. The electric field points in the vertical direction.

Supplementary video 4: Three dimensional view of simulation for $R = 0.2$, $S = 150$, and $M = 1$. The electric field points in the vertical direction.

Supplementary video 5: Simulation of drops confined to the plane perpendicular to the field axis, for $R_A = R_B = 1$, $S_A = 10$, $S_B = 0.1$, and $M_A = M_B = 1$. The electric field points out of the page. The blue drops are of type A and the red drops are of type B .

Supplementary video 6: Simulation of drops confined to the plane perpendicular to the field axis, for $R_A = 10$, $R_B = 0.1$, $S_A = S_B = 1$, and $M_A = M_B = 1$. The electric field points out of the page. The blue drops are of type A and the red drops are of type B .

Supplementary video 5: Three dimensional view of simulation for $R_A = 10$, $R_B = 0.1$, $S_A = S_B = 1$, and $M_A = M_B = 1$. The electric field points in the vertical direction. The

blue drops are of type A and the red drops are of type B .