Supplementary Material (ESI) for Lab on a Chip This journal is © The Royal Society of Chemistry 2007

Electronic Supplementary Information

Supplemental Movie Captions:

cross128.mpg: Movie clip of the formation of O/W emulsion droplets in the module having 128 cross-junctions, recorded at 4000 fps. Disperse phase flow rate (Q_d) was 320.0 mL h⁻¹ and continuous phase flow rate (Q_c) was 480.0 mL h⁻¹.

coflow128-Janus.mpg: Movie clip of the formation of Janus droplets in the module having 128 co-flow junctions, recorded at 4000 fps. Flow rates were $Q_d = 128.0$ mL $h^{-1}(64.0 \text{ mL h}^{-1} \times 2)$ and $Q_c = 1024 \text{ mL h}^{-1}$.

coflow32-Janus.mpg: Movie clip of the formation of Janus droplets in the module having 32 co-flow junctions, recorded at 4000 fps. Flow rates were $Q_{\rm d}=32.0~{\rm mL}$ $h^{-1}(16.0~{\rm mL}~h^{-1}\times2)$ and $Q_{\rm c}=256.0~{\rm mL}~h^{-1}$.

coflow128-mono.mpg: Movie clip of the formation of O/W emulsion droplets in the module having 128 co-flow junctions, recorded at 2000 fps. Flow rates were $Q_{\rm d}=256.0$ mL h⁻¹ and $Q_{\rm c}=1280$ mL h⁻¹.

All movies are prepared in MPEG-1 format.