Electronic Supplementary Information

Controllable formation of aromatic nanoparticles in a three-dimensional hydrodynamic flow focusing microfluidic device

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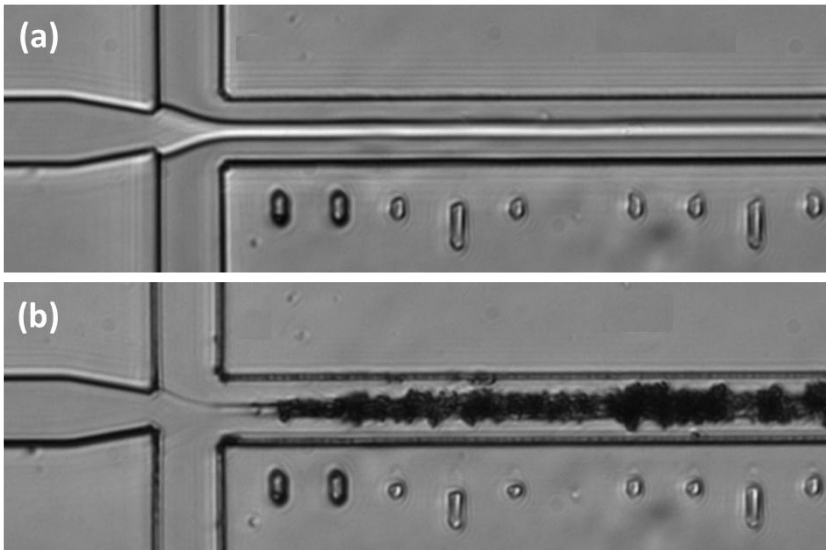

Fig. S1 Formation of aromatic NPs in a 2DHFF device. Central stream: 400 μM FTAEA in DMF/water (75/25, volume ratio) solution. Side streams: nanopurified water. (a) At the beginning of the experiment. (b) After 3 minutes running of the experiment. Aggregates severely stick on channel surfaces.

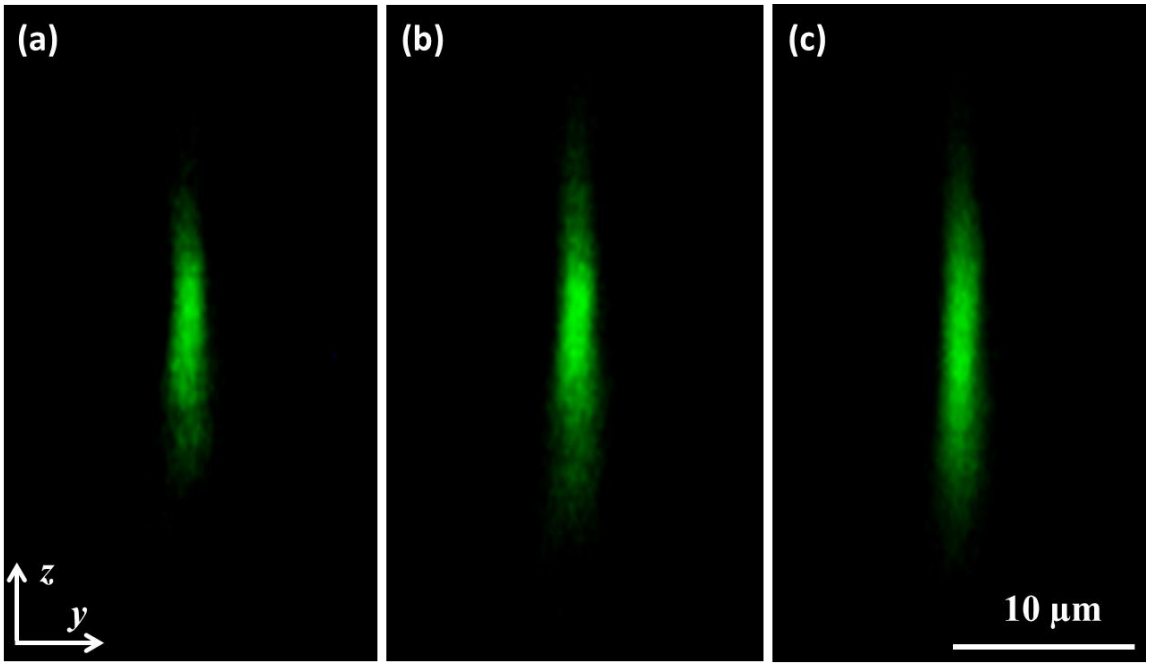

Fig. S2 Cross section images of 3D focused streams at different flow conditions, taken at 40 µm downstream at cross section B in Fig. 1b. Flow rates in experiments: Q_{bf1}-Q_{bf2}-Q_{Sa}-Q_{Wt} µl/min (a) 1.1-1.1-0.3-20; (b) 1-1-0.5-20; (c) 0.85-0.85-0.8-20.

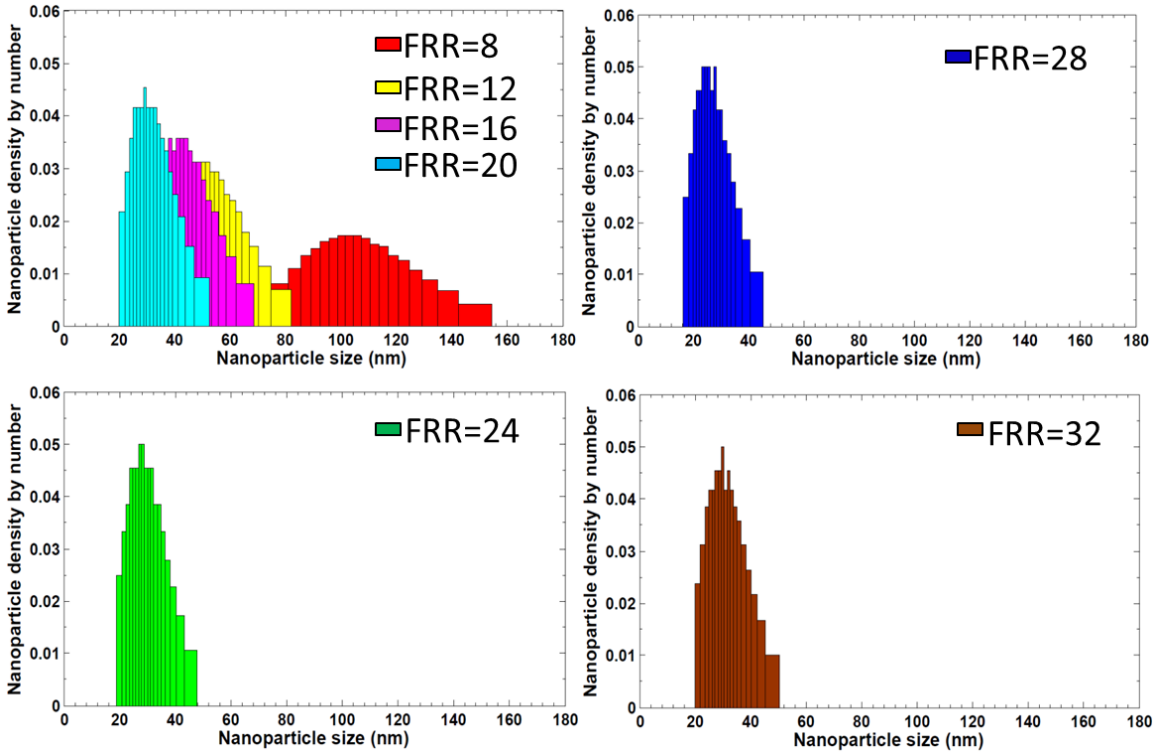

Fig. S3 DLS measurements of self-assembled FTAEA NPs at different FRR conditions with the sample stream containing an FTAEA initial concentration of 10 mM.