**Facile Microfluidic Production of Composite Polymer Core-Shell Microcapsules and Crescent-Shaped Microparticles**

Ekanem E. Ekanem, Zilin Zhang and Goran T. Vladisavljević\*

Department of Chemical Engineering, Loughborough University, Loughborough LE11 3TU, United Kingdom.

\*Corresponding author’s address: Department of Chemical Engineering, Loughborough University, Loughborough, LE11 3TU, United Kingdom. Phone number +441509222518; fax number +441509223923; email: g.vladisavljevic@lboro.ac.uk

**Video Captions**

**Video 1.** Generation of monodispersed core-shell drops. The volumetric flow rates of the inner fluid, the middle fluid, and the outer fluid are 1 ml/h, 2 ml/h, and 10 ml/h, respectively. The diameters of the outer drop, the inner drop, the orifice of the injection tube, and the orifice of the collection tube are 308 μm, 207 μm, 100 μm, and 350 μm, respectively. The inner fluid was Milli-Q water, the middle fluid was a mixture containing 7 wt% PLA and 2 wt% PGPR in DCM. The outer fluid was 5 wt% aqueous solution of PVA.

**Video 2.** Generation of monodispersed drops with two inner drops. The volumetric flow rates of the inner fluid, the middle fluid, and the outer fluid are 1.5 ml/h, 2.5 ml/h, and 10 ml/h, respectively. The diameters of the outer drop, the inner drop, the orifice of the injection tube, and the orifice of the collection tube are 418 μm, 225 μm, 100 μm, and 350 μm, respectively. The inner fluid was Milli-Q water, the middle fluid was a mixture containing 7 wt% PLA and 2 wt% PGPR in DCM. The outer fluid was 5 wt% aqueous solution of PVA.