

Supporting Information (SI)

Dopamine Polymerization in Liquid Marbles: A General Route to Janus Particles Synthesis

Yifeng Sheng,^a Guanqing Sun^a and To Ngai^{a,b,*}

^a Department of Chemistry, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong.

^b Shenzhen Municipal Key Laboratory of Chemical Synthesis of Medicinal Organic Molecules, Shenzhen Research Institute, The Chinese University of Hong Kong; Shenzhen, 518057, P. R. China.

* E-mail: tongai@cuhk.edu.hk

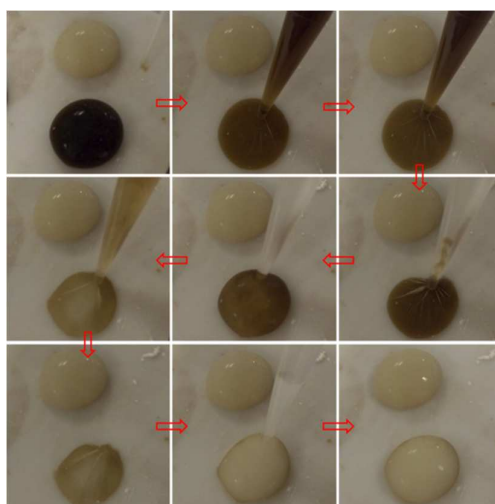


Figure S1. Illustration of the transformation of PD/SiO₂ Janus particles into further modified Janus particles via Method 2 as shown in the bottom of Figure 1B.

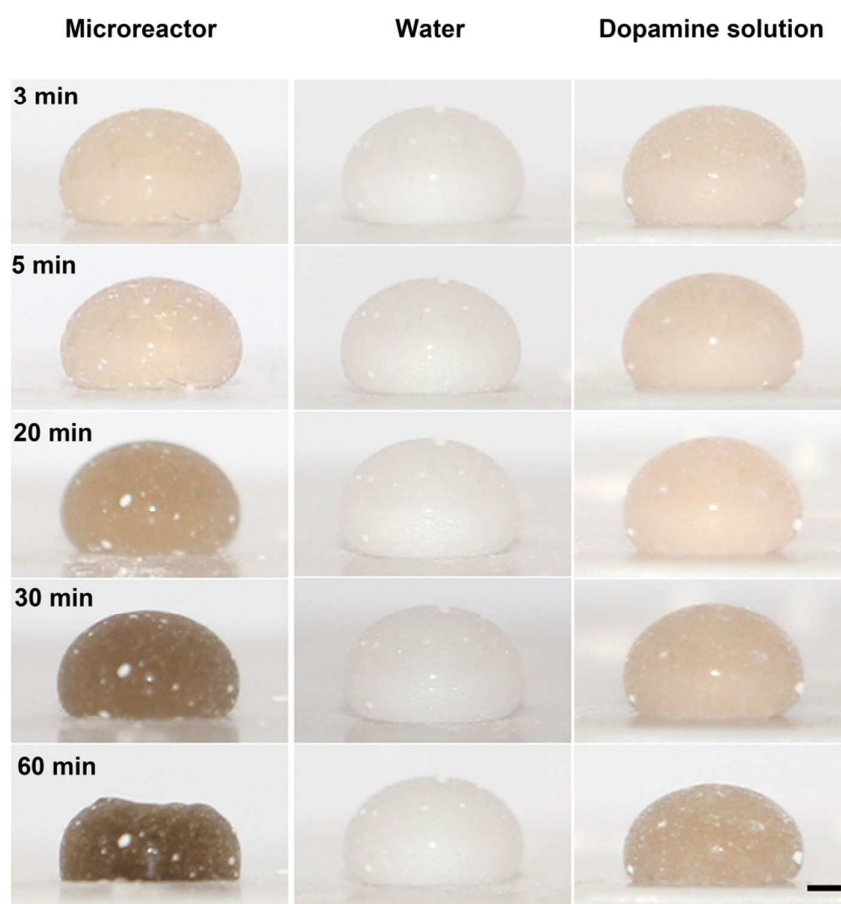


Figure S2. Side view of different liquid marbles at different reaction stages: (A) microreactor; (B) pure water; (C) dopamine hydrochloride aqueous solution (2 mg/mL). Scale bar: 1 mm.

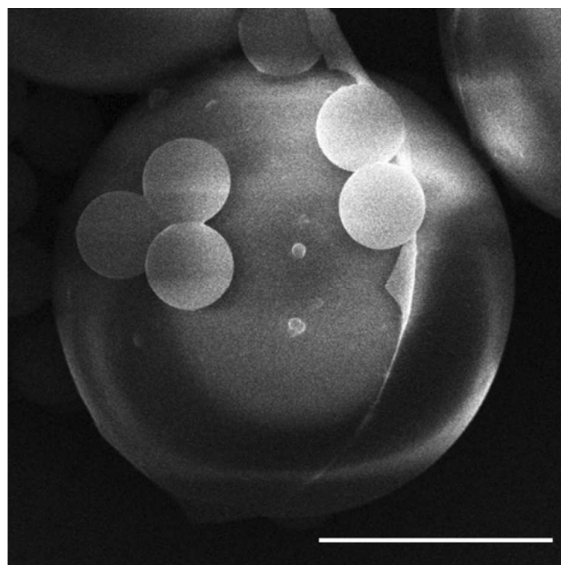


Figure S3. SEM image of PS(2 μm)-PD/SiO₂ Janus particles synthesized from Method 1 (the top route in the Figure 1B). Scale bar: 5 μm .

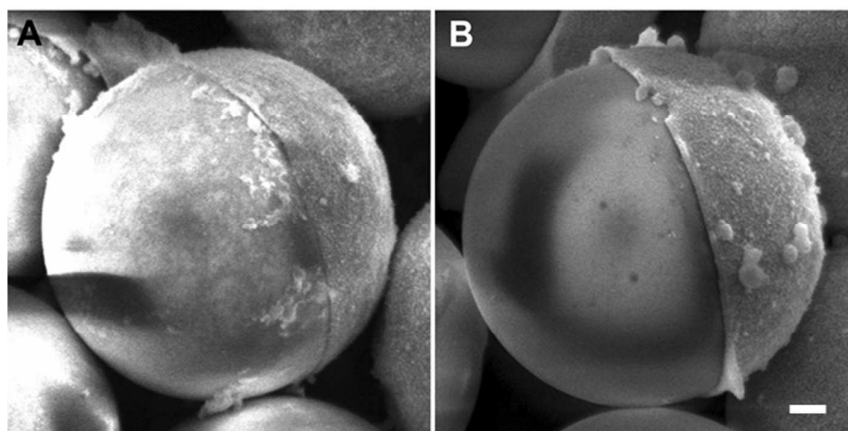


Figure S4. SEM images of Ag-PD hybrid films synthesized via Method 1 (A) and Method 2 (B) from 0.1 mol/L diamminesilver(I) solution. Scale bar: 1 μm .