Supporting Information

Figure S1. The XRPD pattern of glutamic acid crystals collected in the control experiments without using any SAM surface.

Figure S2. Raman spectra of DL-glutamic acid monohydrate and L-glutamic acid (the β polymorph).
Figure S3. The XRPD pattern of crystals collected at the bottom of the crystallization vial (C=26.4 mg/mL, EE (L) = 14%, SAM=D-P) and the simulated patterns of DL-glutamic acid monohydrate and L-glutamic acid (the β polymorph).

Figure S4. The morphology of L-glutamic acid crystal from bulk crystallization form aqueous solutions, obtained from reference 30.