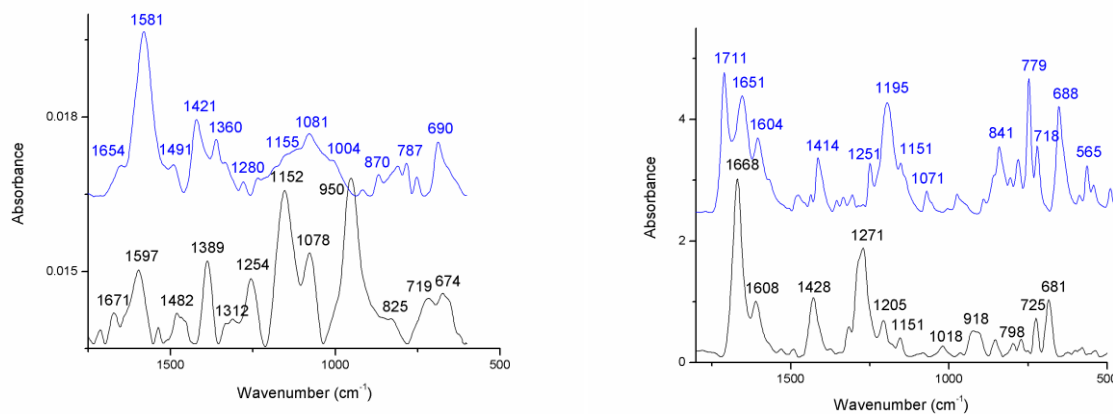


Supplementary material
to
**Self-assembly of 2,3-phenyl/thienyl-substituted acrylic acids over
polycrystalline gold**

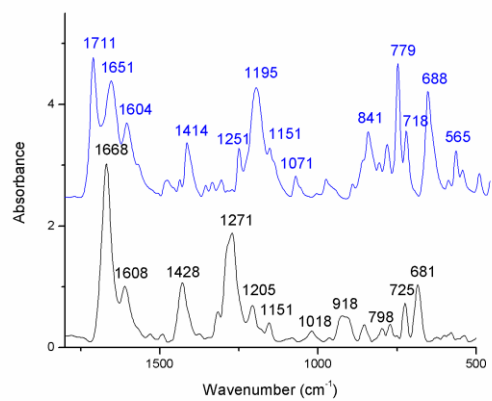
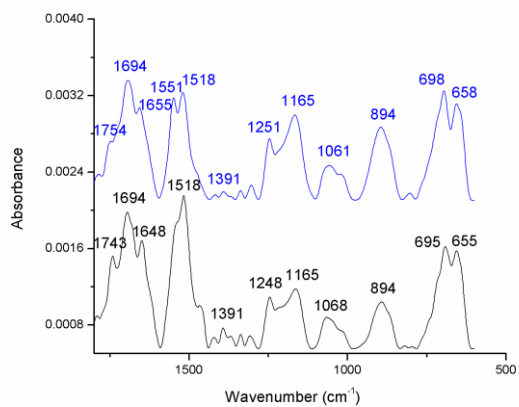
K. Csankó,^a G. Kozma,^b L. Valkai,^a Á. Kukovecz,^b Z. Kónya,^b P. Sipos,^c I. Pálinkó^a



(a)

(b)

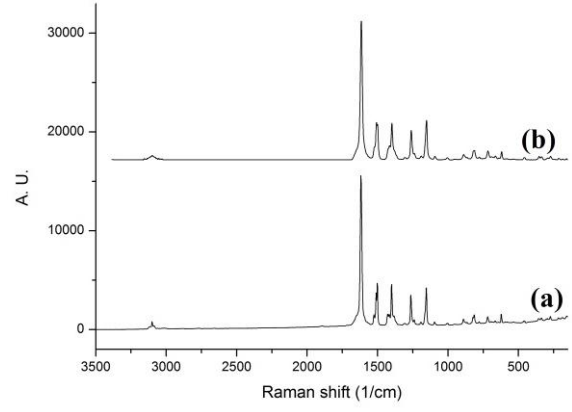
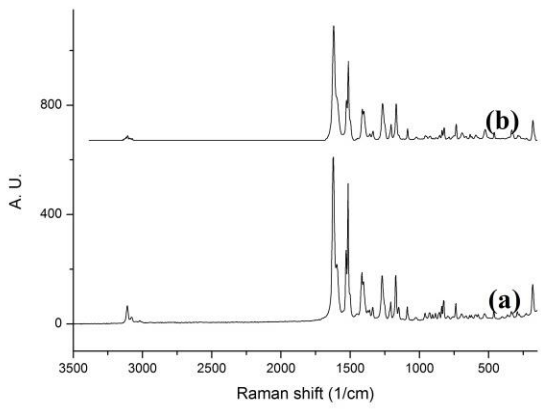
Fig. S1 The IR spectra of the 23'T3P stereoisomers [*E* isomer: black (at the bottom), *Z* isomer: blue (at the top)] (a) over the Au film and (b) in crystalline form.



(a)

(b)

Fig. S2 The IR spectra of the 22'T32'T stereoisomers [*E* isomer: black (at the bottom), *Z* isomer: blue (at the top)] (a) over the Au film and (b) in crystalline form.



A

B

Fig. S3 The Raman spectra of (A) E22'T32'T and (B) Z22'T32'T in the (a) crystalline form and (b) after deposition onto the polycrystalline Au surface.

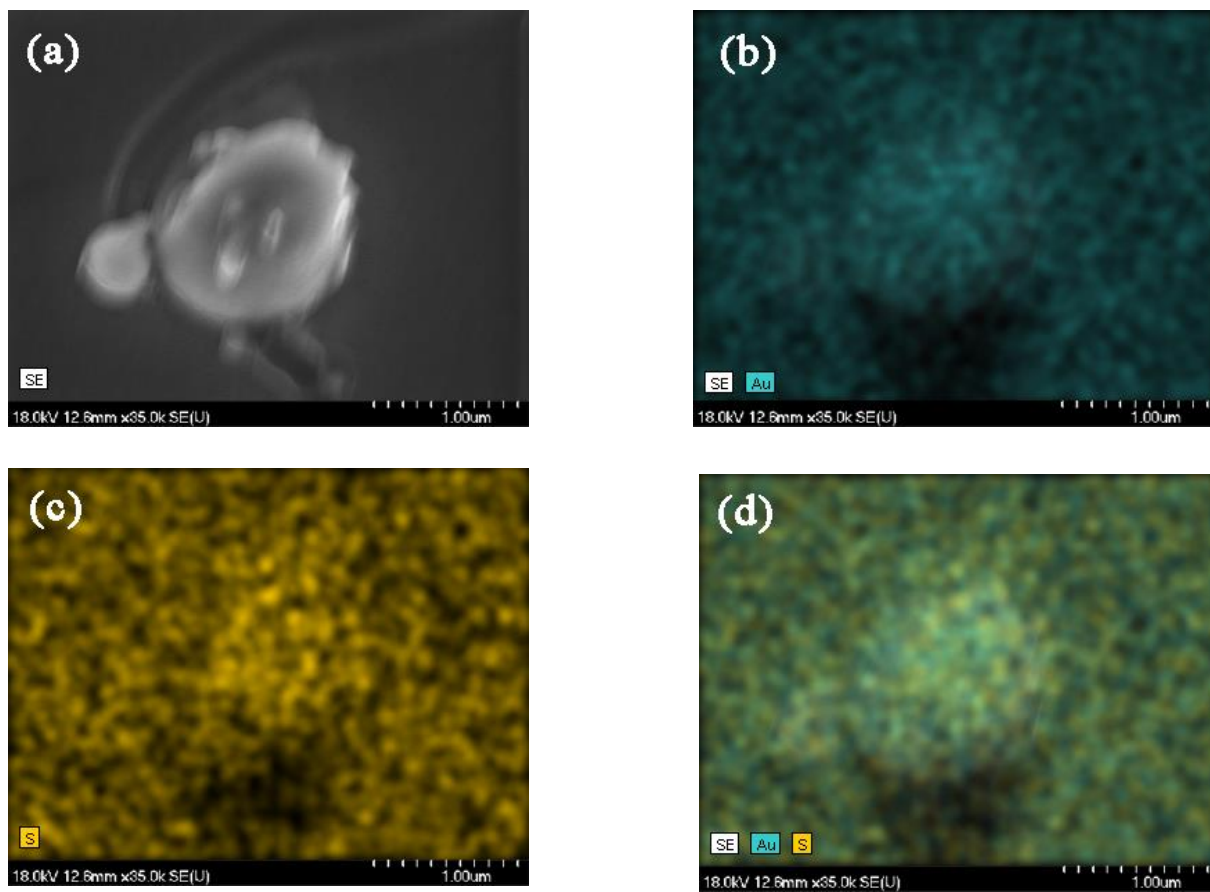
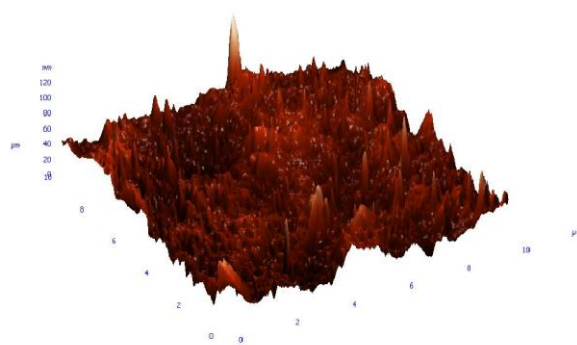
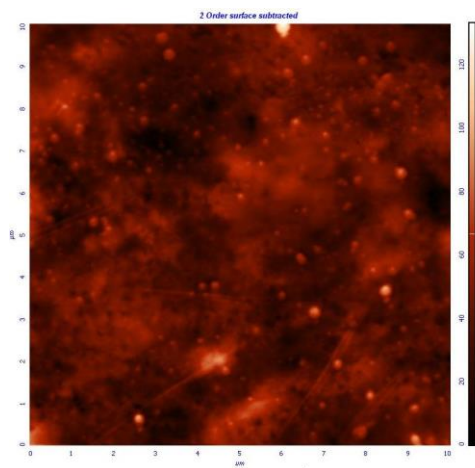


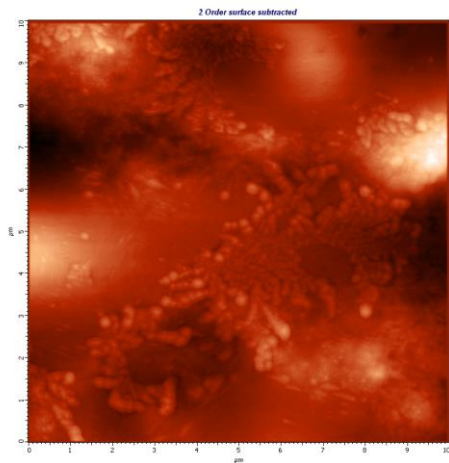
Fig. S4 The SEM–EDX elemental maps of the E2P33'T coated polycrystalline Au film.



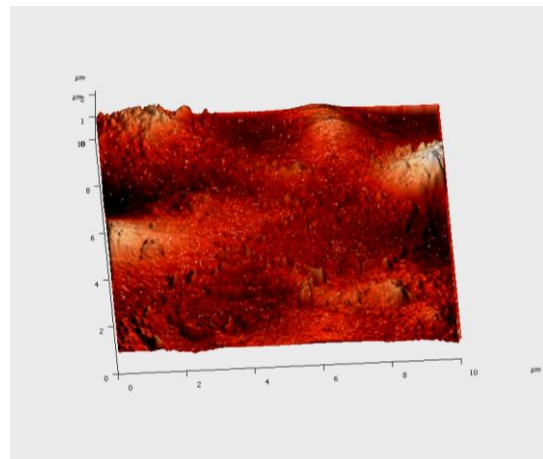
(a)

(b)

Fig. S5 2D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (a) and 3D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (b) AFM images of E23'T3P over polycrystalline Au film.

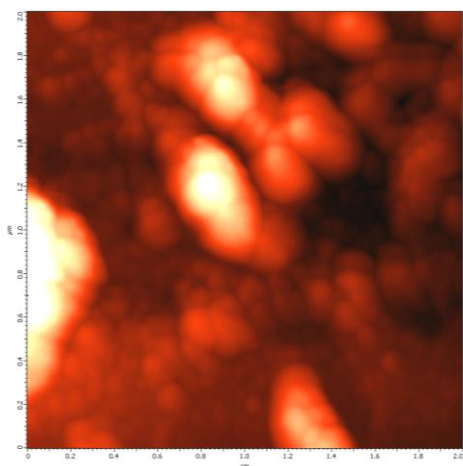


(a)

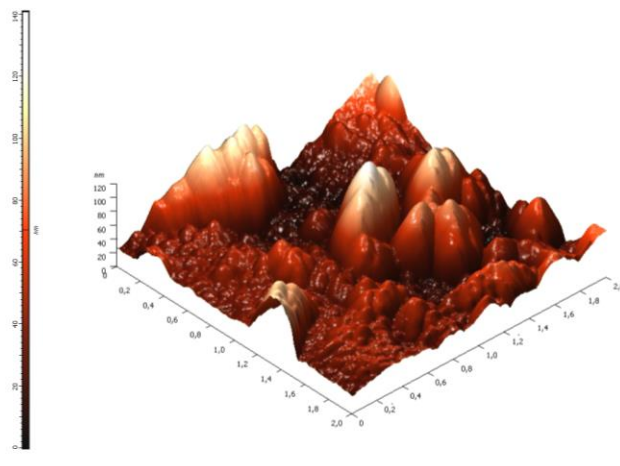


(b)

Fig. S6 2D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (a) and 3D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (b) images of Z33'T3P over polycrystalline Au film.

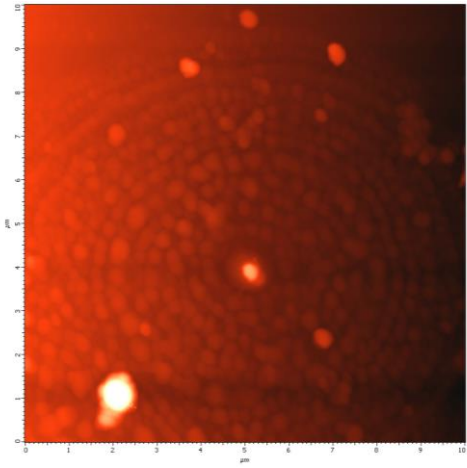


(a)

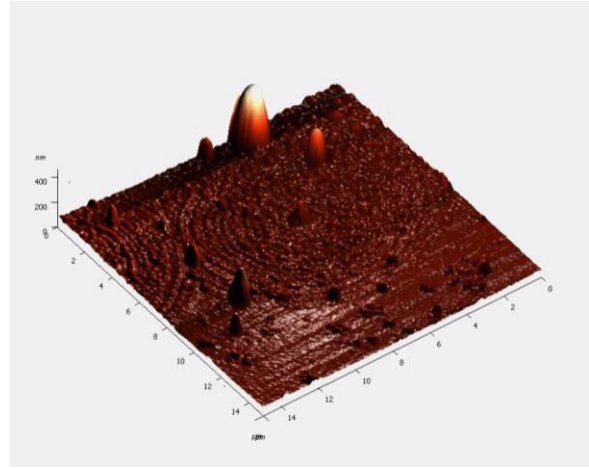


(b)

Fig. S7 2D [$2\ \mu\text{m} \times 2\ \mu\text{m}$] (a) and 3D [$2\ \mu\text{m} \times 2\ \mu\text{m}$] (b) images of E22'T32'T over polycrystalline Au film.



(a)



(b)

Fig. S8 2D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (a) and 3D [$10\ \mu\text{m} \times 10\ \mu\text{m}$] (b) images of Z22'T32'T over polycrystalline Au film.