Electronic Supplementary Information (ESI)

Effects of alkyl chain length, solvent and tandem Claisen rearrangement on two-dimensional structures of noncyclic isobutenyl compounds: Scanning tunneling microscopic study

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Figure S1  STM images of Cn-1 (n = 14 – 21) physisorbed at the HOPG/PN interface and tentative molecular models based on the STM images. One of the building blocks of 2D structures and coadsorbed PN molecules are colored in blue and green, respectively.  

(a) **C14-1**, $I = 3.0$ pA, $V = -917$ mV;  
(b) Molecular model of **C14-1**;  
(c) **C15-1**, $I = 8.7$ pA, $V = -613$ mV;  
(d) **C16-1**, $I = 8.2$ pA, $V = -288$ mV;  
(e) **C17-1**, $I = 8.4$ pA, $V = -564$ mV;  
(f) **C18-1**, $I = 8.0$ pA, $V = -890$ mV;  
(g) Molecular model of **C18-1**;  
(h) **C19-1**, $I = 2.0$ pA, $V = -604$ mV;  
(i) Molecular model of **C19-1**;  
(j) **C20-1**, $I = 7.7$ pA, $V = -438$ mV;  
(k) **C21-1**, $I = 2.0$ pA, $V = -697$ mV.
Figure S2  STM images of Cn-2 (n = 14 – 21) physisorbed at the HOPG/PN interface and tentative molecular model based on the STM image. One of the molecular constituents is colored in blue. (a) C14-2, $I = 1.3$ pA, $V = -947$ mV; (b) Molecular model of C14-2; (c) C15-2, $I = 1.3$ pA, $V = -900$ mV; (d) C16-2, $I = 2.0$ pA, $V = -1000$ mV; (e) C17-2, $I = 1.6$ pA, $V = -1000$ mV; (f) C18-2, $I = 1.8$ pA, $V = -1000$ mV; (g) C19-2, $I = 2.4$ pA, $V = -783$ mV. (h) C20-2, $I = 1.1$ pA, $V = -827$ mV; (i) C21-2, $I = 1.2$ pA, $V = 1100$ mV.