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Electronic Supplementary Information

Werner clathrate formation with polyaromatic hydrocarbons: comparison of different crystallisation methods

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H + NAP Grinding at 25°C

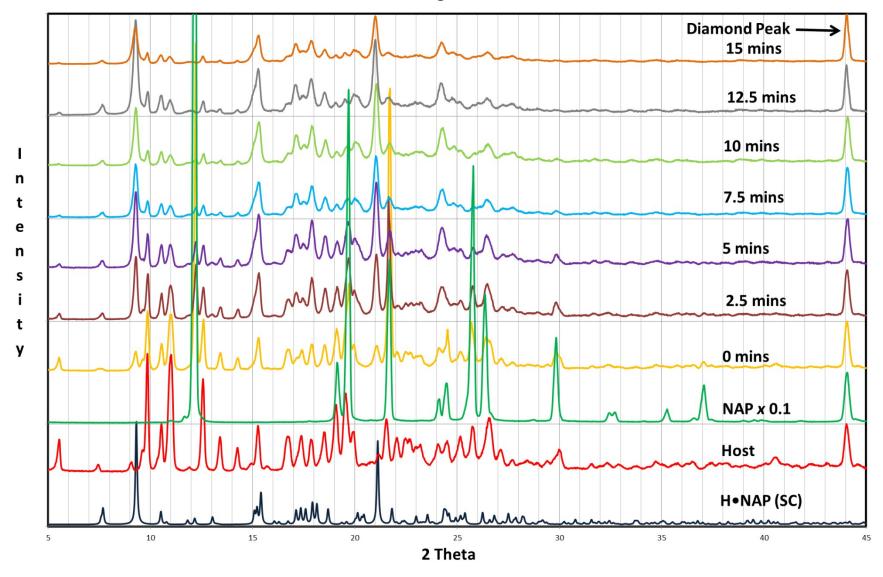


Figure S1: PXRD patterns of **H** grinding with **NAP** at 25°C

H+AZU Grinding at 35°C

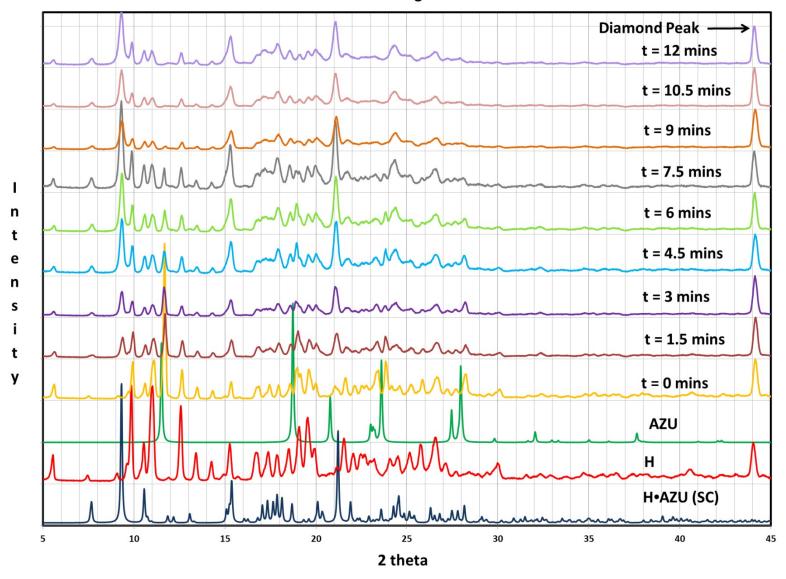


Figure S2: PXRD patterns of **H** grinding with **AZU** at 35°C

H + IND Slurry Experiment at 25° and 50°C

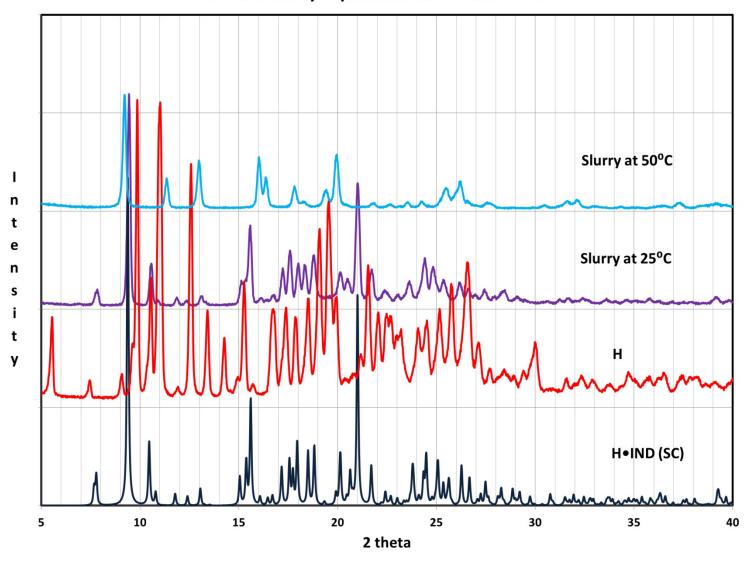


Figure S3: PXRD patterns of **H and IND** slurrying at 25° and 50°C

H + AZU Slurry Experiment at 25 and 50°C

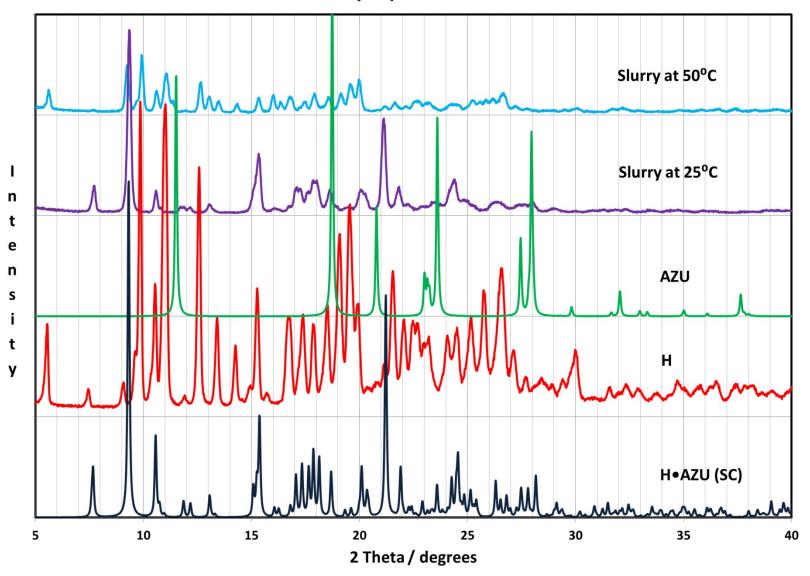


Figure S4: PXRD patterns of **H and AZU** with slurrying at 25° and 50°C

H + ANT Slurry Experiment at 25° and 50° C Slurry at 50°C n Slurry at 25°C t е n S ANT t y H•ANT (SC) 15 20 30 35 2 theta

Figure S5: PXRD patterns of H \mathbf{H} and \mathbf{ANT} with slurrying at 25° and 50°C

H + FLU Slurry Experiment at 25° and 50°C

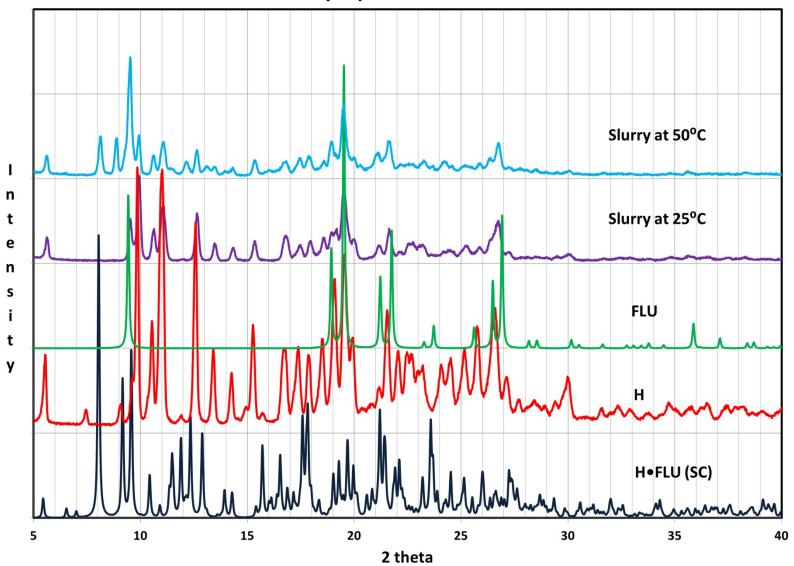


Figure S6: PXRD patterns of **H and FLU** with slurrying at 25° and 50° C

H + PHE Slurry Experiment at 25° and 50°C

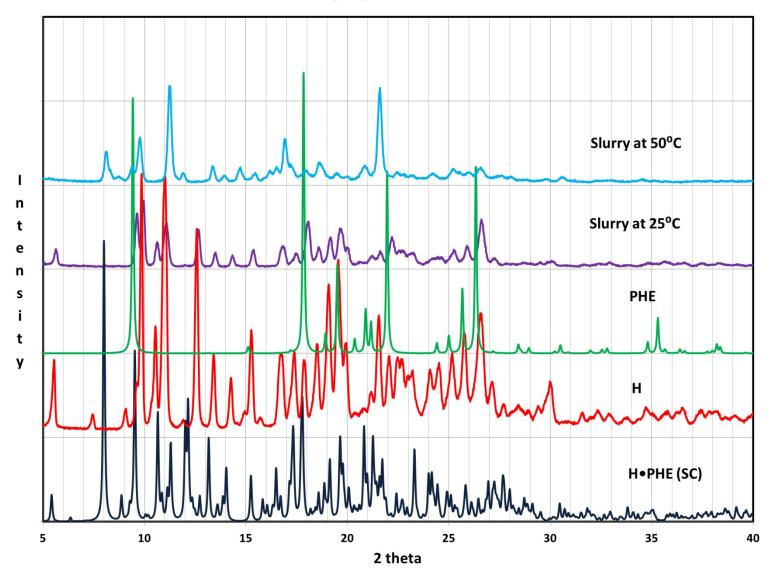


Figure S7: PXRD patterns of **H and PHE** with slurrying at 25° and 50°C

H + PYR Slurry Experiment at 25° and 50°C

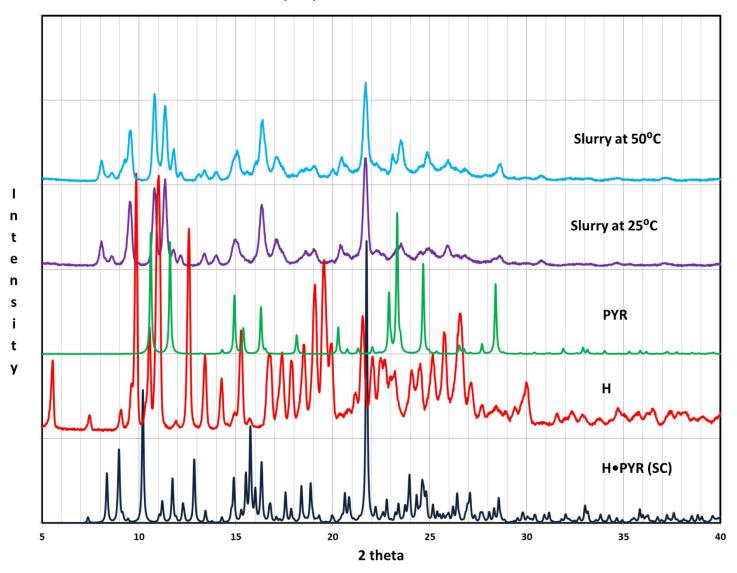


Figure S8: PXRD patterns of **H and PYR** with slurrying at 25° and 50° C

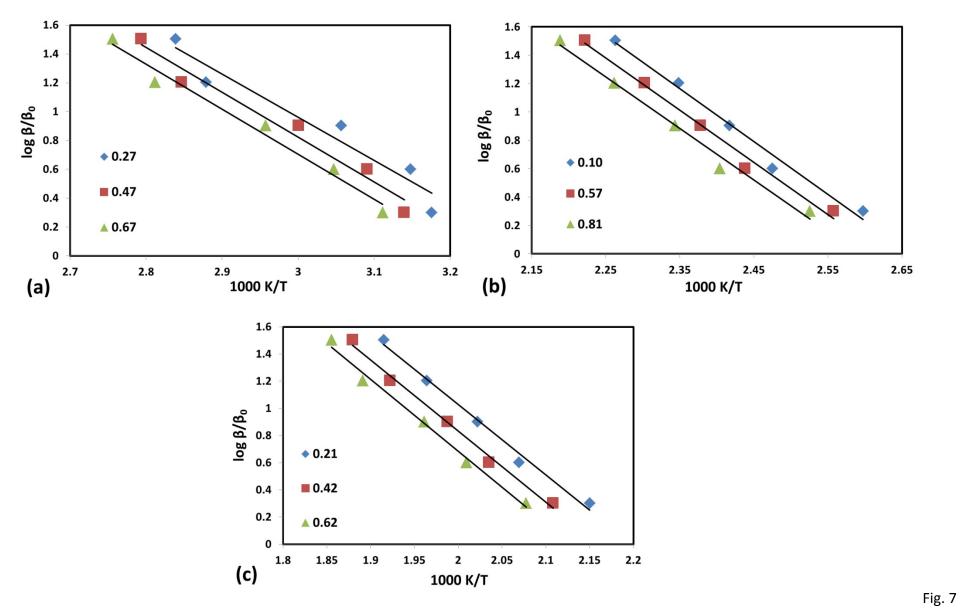


Figure S9: Activation energies for (a) Stage 1; (b) Stage 2 and (c) Stage 3 for H●NAP

Kinetics of H•IND 110 Ni(NCS)₂L₄.nG 100 90 - nG (Stage 1) 80 $Ni(NCS)_2L_4$ % Weight Loss 70 - 2L (Stage 2) 60 _2 K/ min $Ni(NCS)_2L_2$ 50 —4 K/min - 2L (Stage 3) 40 —8 K/min Ni(NCS)₂ —16 K/min 30 —32 K/min 20 10 50 150 200 0 100 250 300 350 Temperature (°C)

Figure S10: Non-isothermal kinetics of H•IND

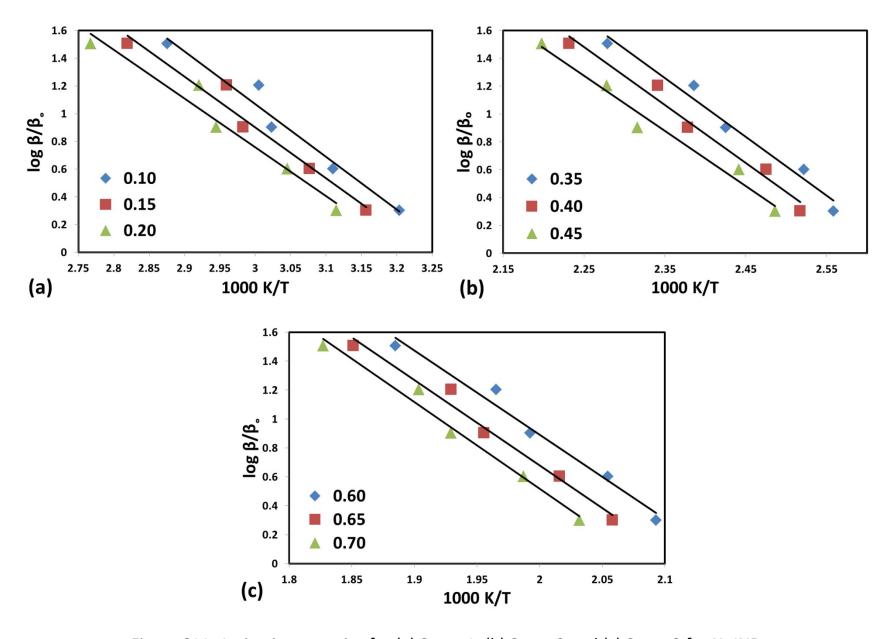


Figure S11: Activation energies for (a) Stage 1; (b) Stage 2 and (c) Stage 3 for H●IND