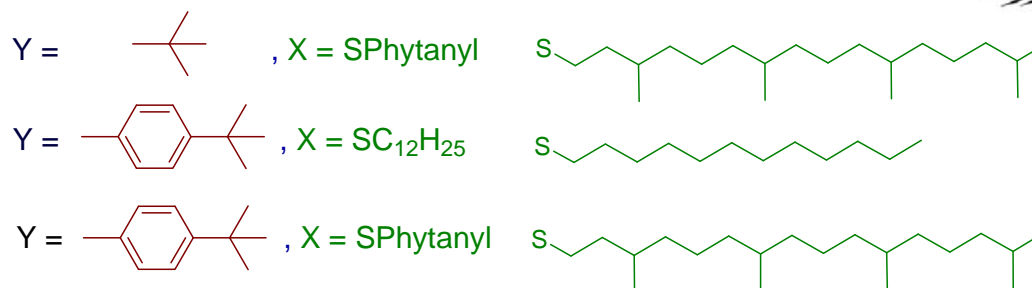
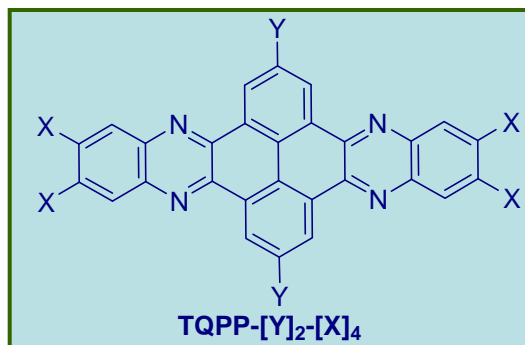
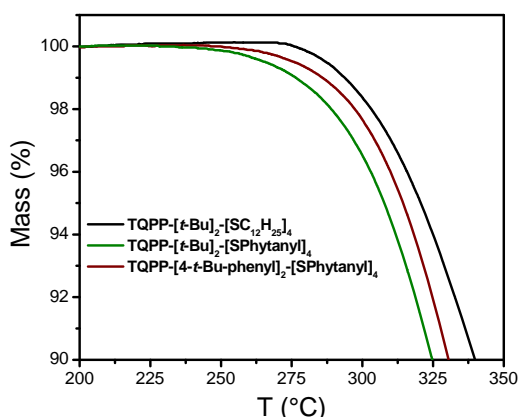
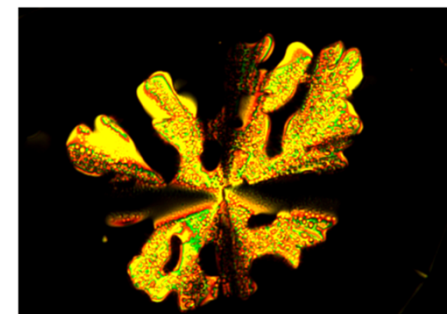
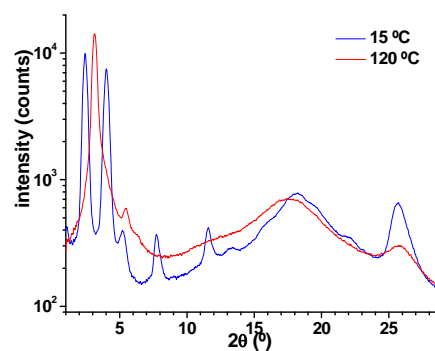
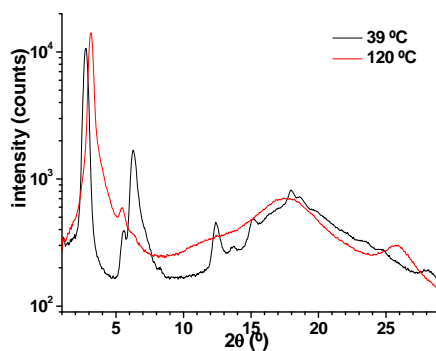
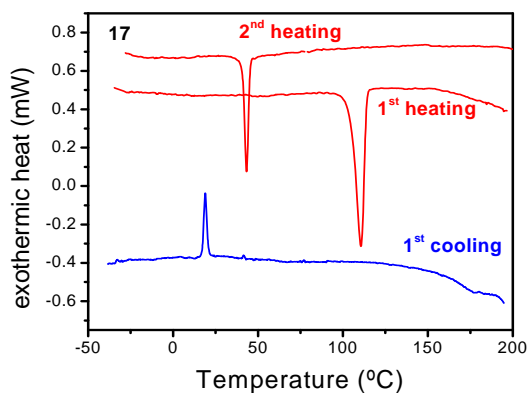


Design and Synthesis of Novel Pyrene Discotics and Their Investigation in Organic Photovoltaic Cells

Bilal R. Kaafarani, Department of Chemistry, American University of Beirut, Beirut, Lebanon



TQPP-[4-*t*-Bu-phenyl]₂-[SPhytanyl]₄



Y	X	Phase transitions (heating)		Phase transitions (cooling)	
<i>p-t</i> -Bu-phenyl	SPhytanyl	104.7 °C ^a	239 °C ^b	233 °C ^b	21.2 °C
		sK → Col _h	→ I	I → Col _h	→ Col _r ^c
		-19.53 KJ/mol			6.13 KJ/mol
			41.0 °C		
		Col _r ^c → Col _h			
			-6.98 KJ/mol		

^a Transition was only observed in the first heating run. ^b Transition was determined by POM. ^c Preliminary phase assignments.