List of Tables

Table 2.1	SRIM calculation for 90 MeV carbon ion irradiated	
	polymeric films.	45
Table 3.1	EDAX analysis of PA2 and PA4 films.	68
Table 3.2	Optical bandgap and number of C_6 ring in the cluster of	
14,510 012	pristine and irradiated polymeric films.	73
Table 3.3	Kinetic parameter and activation energy for glow, as	
	calculated from GCD for irradiated PA4 films.	79
Table 4.1	Average crystallite size of pristine and irradiated PS	
	composites.	94
Table 4.2	Bandgap of Polystyrene, its composites and irradiated	
	samples.	97
Table 4.3	Kinetic parameter and activation energy for glow, as	
	calculated from GCD for irradiated PSE5 films.	104
Table 5.1	Optical band gap of pristine and irradiated PHS.	124
Table 5.2	DC Conductivity for PHS nanocomposite polymer	129
	electrolyte.	
Table 5.3	Fitting parameters from Jonscher's power law σ_{dc} , A and n	
	for PHS.	131
Table 5.4	Melting Temperature and degree of crystallinity upon	
	gamma rays and 90 MeV carbon ion irradiations.	133
Table 6.1	Optical bandgap of gamma rays and SHI irradiated polymer	
-	nanocomposites.	143