

Supplementary Information

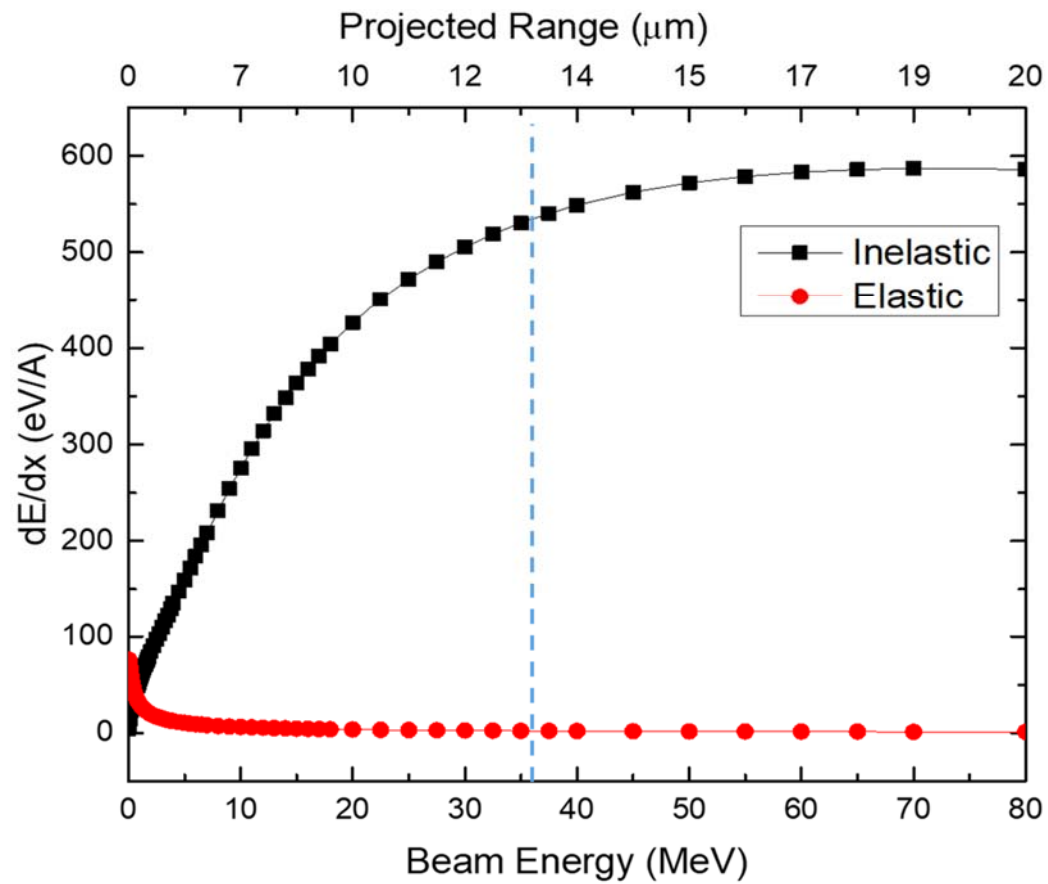


Figure S 1: SRIM simulation of Cu ion energy losses in PANI-G films, showing greater inelastic (electronic) than elastic (nuclear) losses at 36 MeV irradiation energy.

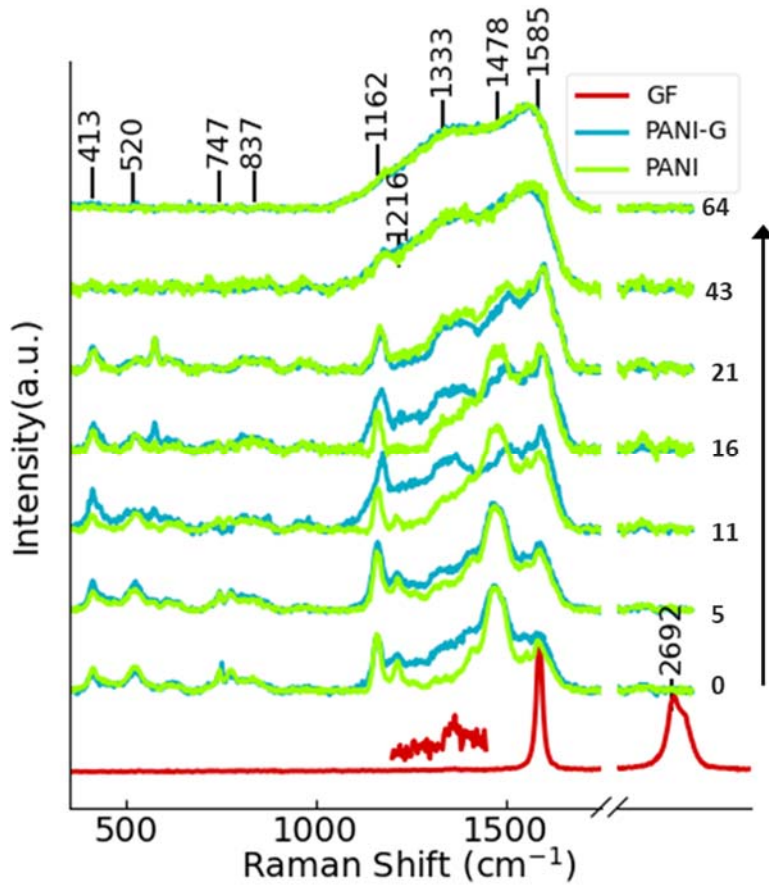


Figure S 2: Overlays of Raman spectra of pure PANI and PANI-G NC films at different irradiation fluencies. The fluencies are in units of $\times 10^{12}$ ions/ cm^2 . A spectrum of GF is also included. (A color version of this figure can be viewed online.)

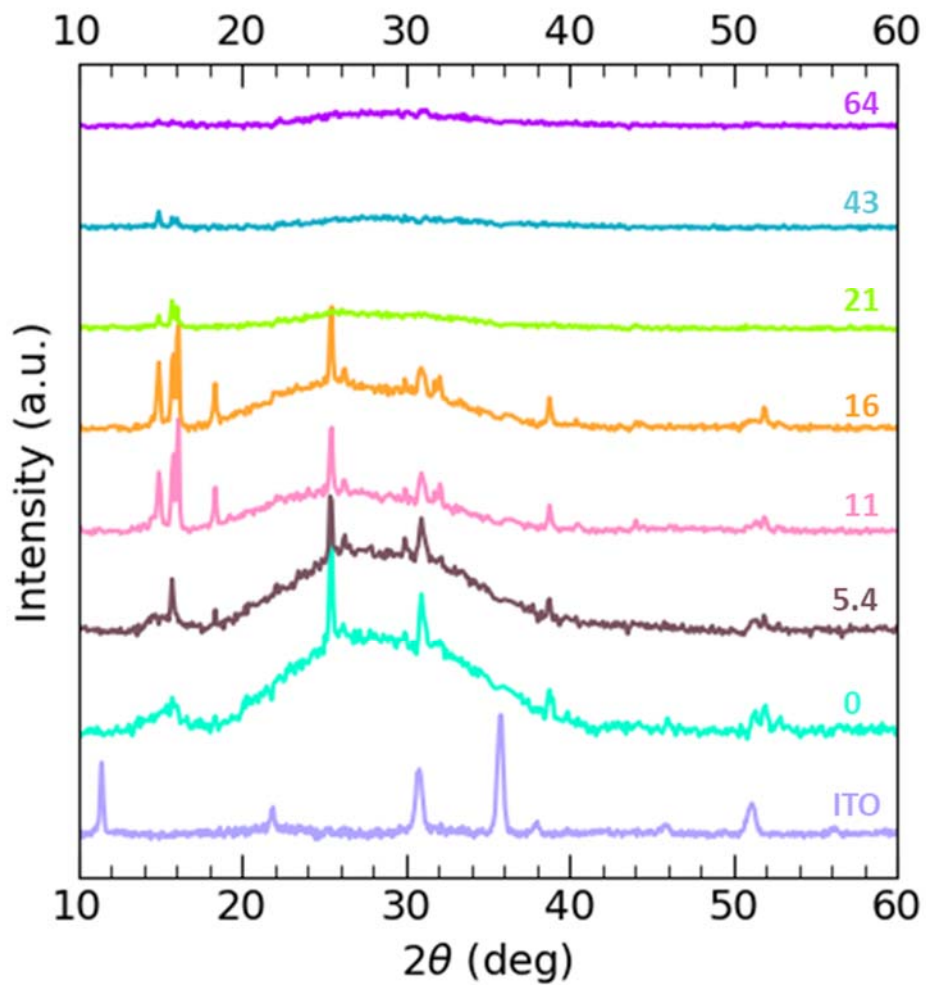


Figure S 3: XRD profiles of (unirradiated) ITO and pure PANI submitted to different irradiation doses. The irradiation levels are indicated in the labels and are in units of $\times 10^{12}$ ions/cm². (A color version of this figure can be viewed online.)