



List of abbreviations

AC	Alternating current
AFM	Atomic Force Microscopy
DSC	Differential scanning calorimetry
E _g	Optical band gap energy
F	Frequency
FTIR	Fourier transform infra red spectroscopy
FWHM	Full width at half maxima
LET	Linear energy transfer
MeV	Mega electron volt
MFM	Magnetic Force Microscopy
PI	Polyimide
PMMA	Polymethyl metha acrylate
RF	Radio frequency
S _e	Electronic energy loss
SEM	Scanning Electron Microscopy
SHI	Swift heavy ion
S _n	Nuclear energy loss
SQUID	Superconducting Quantum Interference Device
SRIM	Stopping range of ions in matter
T _g	Glass transition temperature
T _m	Melting temperature
UV-Vis	Ultraviolet-Visible
XRD	X-ray diffraction