

List of abbreviations

AC	Alternating current
CMC	Ceramic matrix composites
DSC	Differential scanning calorimetry
E _g	Energy band gap
EMI	Electromagnetic interference
F	Frequency
keV	Kilo electron volt
LET	Linear energy transfer
MeV	Mega electron volt
MMC	Metal matrix composites
PMC	Polymer matrix composites
PMMA	Polymethyl methacrylate
PS	Polystyrene
S _e	Electronic energy loss
SE	Shielding effectiveness
SEM	Scanning electron microscopy
SHI	Swift heavy ion
S _n	Nuclear energy loss

SQUID	Superconducting Quantum interference device
SRIM	Stopping range of ions in material
T _g	Glass transition temperature
THF	Tetrahydro furan
XRD	X-ray diffraction
ZFC/FC	Zero-field- cooled/Field –cooled