

## List of Abbreviations

Abbreviation	Full Form
RF	Radio Frequency
IC	Integrated Circuits
MEMS	Micro-Electro-Mechanical System
MOS	Metal-Oxide-Semiconductor
XRD	X-Ray Diffraction
XPS	X-Ray Photoelectron Spectroscopy
MIM	Metal Insulator Metal
FE	Ferroelectric
BST	Barium Strantium Titanate
PZT	Lead Zirconate Titanate
C-V	Capacitance Voltage Measurement
I-V	Current Voltage Measurement
IDC	Interdigitated Capacitor
DC	Direct Current
WLAN	Wireless Local Area Network
GPS	Global Positioning System
BPF	Band Pass Filter
CMOS	Complementary Metal Oxide Semiconductor
MW	Microwave
FOM	Figure of Merit
UV	Ultraviolet Radiation
P-E	Polarisation Electric Field Measurement
TO	Transverse Optical
FCC	Face Centered Cubic Structure
FIR	Far Infrared
MPB	Morphotropic Phase Boundary
K.E.	Kinetic Energy
SKA	Secondary Knock-on Atom Collision
PKA	Primary Knock-on Atom Collision
SK	Stranski Krastanov Film Growth
MBE	Molecular Beam Epitaxy
PVD	Physical Vapor Deposition
TMP	Turbo Molecular Pump
AFM	Atom Force Microscopy
FWHM	Full Width at Half Maxima
SOS	Spin Orbit Spin Splitting
VB	Valance Band
CB	Conduction Band
RMS	Root Mean Sqaure
$P_{\text{sat}}$	Saturation Polarization
$P_r$	Remnant Polarization
sccm	Standard Cubic Centimeter per Minute

