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## ACRONYMS AND ABBREVIATIONS

AFM	Atomic Force Microscopy
AHE	Anomalous Hall Effect
BMP	Bond Magnetic Polarons
BSE	Back Scattered Electrons
DMS	Diluted Magnetic Semiconductor
EELS	Electron Energy-Loss Spectroscopy
ERDA	Elastic Recoil Detection Analysis
FC	Field-Cooling
FEG-SEM	Field Emission Gun – Scanning Electron Microscopy
FM	Ferromagnetism
FWHM	Full Width at Half-Maximum of the rocking curve
HRTEM	High Resolution Transmission Electron Microscopy
KE	Kinetic Energy
LMBE	Laser Molecular Beam Epitaxy
MFC	Mass Flow Controller
MOCVD	Metal-Organic Chemical Vapour Deposition
MR	Magnetoresistance
MCD	Magnetic Circular Dichroism
OPA-MBE	Oxygen-Plasma-Assisted Molecular Beam Epitaxy
PLD	Pulsed Laser Deposition
RBS	Rutherford Backscattering Spectrometry
RHEED	Reflection High- Energy Electron Diffraction
RKKY	Ruderman-Kittel-Kasuya-Yosida
RT	Room Temperature
SC	Semiconductor
SE	Secondary Electrons
SE	Spectroscopic Ellipsometry

SM	Soft Magnetic
SQUID	Superconducting Quantum Interference Devices
TM	Transition Metal
UV	Ultraviolet
VSM	Vibrating Sample Magnetometry
VTI	Variable Temperature Inserts
XAS	X-ray Absorption Spectroscopy
XPS	X-ray Photoelectron Spectroscopy
XRD	X-ray Diffraction
ZFC	Zero-field-cooling