

## List of Abbreviations

SMA	Shape memory alloy
MT	Martensitic transition
$M_S, M_F, A_S, A_F$	Martensitic start, Martensitic finish, Austenitic start and Austenitic finish temperatures
FSMA	Ferromagnetic shape memory alloys
$e/a$	Valence electron concentration per atom
FM	Ferromagnetic
RKKY	Ruderman-Kittel-Kasuya-Yoshida
AFM	Antiferromagnetic
$T_C$	Curie temperature
$M(T)$	Temperature dependent magnetization measurement
MCE	Magnetocaloric effect
MR	Magnetoresistance
EDAX	energy dispersive x-ray analysis
XRD	X-ray diffraction
DSC	differential scanning calorimetric
SEM	Scanning electron microscope
H	Magnetic field
M	Magnetization
$\chi'$	Real part of linear ac susceptibility
$\chi''$	Imaginary part of linear ac susceptibility
GPIB	General Purpose Interface Bus
VSM	Vibrating sample magnetometer
SQUID	Superconducting quantum interference device
ZFC	Zero-field-cooled
FC	Field-cooled
FH	Field- heated
M-H	Magnetic isothermal curves

EB	Exchange bias
$\Delta S_M$	Magnetic entropy change
$\Delta M$	Change in magnetization
RC	Refrigerant capacity
$T_N$	Neel temperature
$\chi_3$	Third harmonic of ac susceptibility (magnitude)
$T_f$	Freezing temperature
(H, T)	Magnetic field temperature phase diagram