

LIST OF ABBREVIATIONS AND SYMOLS

©	:	Copyright
°C	:	Degree centigrade
gm	:	Gram(s)
sec	:	Second
Kg	:	Kilogram
mg	:	Miligram
DTA	:	Differential thermal analysis
TGA	:	Thermogravimetric analysis
µm	:	Micrometer
nm	:	Nanometer
mm	:	Milimeter
cm	:	Centimeter
min	:	Minutes
rpm	:	Rotation per minute
α	:	Alpha
β	:	Beta
%	:	Percentage
EDS	:	Energy-dispersive X-ray spectroscopy
SEM	:	Scanning electron microscopy
HR-SEM	:	High resolution scanning electron microscopy
XRD	:	X- ray diffraction
h	:	Hour
wt.%	:	Weight percentage
vol.%	:	Volume percentage
RSM	:	Response surface methodology
MMCs	:	Metal matrix composites
MPa	:	Mega Pascal
BPR	:	Ball to powder ratio
W	:	Wear volume loss
K	:	Wear coefficient
S	:	Sliding distance

H	:	Hardness of softer materials
μ	:	Coefficient of friction
N	:	Normal load
Σ	:	Summation
ANOVA	:	Analysis of variance
kV	:	Kilo volt
mA	:	Milli ampere
d	:	Interplanar spacing
θ	:	Incident angle
λ	:	Wavelength of the x-ray
n	:	Integer representing order of the diffraction
t	:	Crystallite size
ϵ	:	Lattice strain
V	:	Volt
A	:	Ampere
I	:	Current
R	:	Electrical resistance
ρ	:	Electrical resistivity
L	:	Length
Å	:	Angstrom
a	:	Lattice parameter
P	:	Pressure applied
R^2	:	Correlation coefficient
Q	:	Activation energy,
T	:	Temperature.
HV	:	Vickers hardness
Ω	:	Ohm
DF	:	Degrees of freedom
Seq SS	:	Sequential sum of squares
Adj SS	:	Adjusted sum of squares
Adj MS	:	Adjusted mean squares