

# Abbreviations

<b>AFM</b>	<b>Atomic Force Microscopy</b>
<b>ASTM</b>	<b>American Society for Testing and Materials</b>
<b>BCC</b>	<b>Base Centered Cubic</b>
<b>BSE</b>	<b>Back Scattered Mode</b>
<b>COF</b>	<b>Coefficient Of Friction</b>
<b>CPE</b>	<b>Constant Phase Element</b>
<b>CRT</b>	<b>Cathode Ray Tube</b>
<b>CTAB</b>	<b>Cetyl Trimethyl Ammonium Bromide</b>
<b>EC</b>	<b>Electro Chemical</b>
<b>EDS/EDX</b>	<b>Energy Dispersive X-ray Spectroscopy</b>
<b>EIS</b>	<b>Electrochemical Impedance Spectroscopy</b>
<b>E.W.</b>	<b>Equivalent Weight</b>
<b>FCC</b>	<b>Face Centered Cubic</b>
<b>HP</b>	<b>Hot Pressing</b>
<b>JCPDS</b>	<b>Joint Committee on Powder Diffraction Standards</b>
<b>MMCs</b>	<b>Metal Matrix Composites</b>

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<b>MPMS</b>	<b>Magnetic Properties Measurement System</b>
<b>OCP</b>	<b>Open Circuit Potential</b>
<b>P/M</b>	<b>Powder Metallurgy</b>
<b>RPM</b>	<b>Rotation Per Minute</b>
<b>SAED</b>	<b>Selected Area Electron Diffraction</b>
<b>SE</b>	<b>Secondary Mode</b>
<b>SEM</b>	<b>Scanning Electron Microscopy</b>
<b>SKPFM</b>	<b>Scanning Kelvin Probe Force Microscopy</b>
<b>SMAAT</b>	<b>Surface Mechanical Attrition Alloy Treatment</b>
<b>SPS</b>	<b>Spark Plasma Sintering</b>
<b>TEM</b>	<b>Transmission Electron Micrographs</b>
<b>XRD</b>	<b>X Ray Diffraction</b>

# Symbols

$^{\circ}\text{C}$	Degree Centigrade
$\alpha$	Alpha
$\beta$	Beta
$\theta$	Theta
$\lambda$	Lambda
Hv	Vickers hardness
$I_{corr}$	Corrosion current
$E_{corr}$	Corrosion potential
$C_r$	Corrosion rate
$\mu_p$	Protection efficiency