

## LIST OF ABBREVIATIONS

Al <sub>2</sub> O <sub>3</sub> -TiC (AlTiC)	Alumina titanium carbide
AFM	Atomic Force Microscopy
Ar	Argon gas
DLC	Diamond-like carbon
D peak	Disorder peak (Raman)
eV	Electron volts
FWHM	Full width at half maximum
G peak	Graphite peak (Raman)
HDD	Hard-disk drive
HF	Hydrofluoric acid
I <sub>D</sub>	Intensity of D peak (Raman)
I <sub>G</sub>	Intensity of G peak (Raman)
MP	Macroscopic particle
MR head	Magnetic recording head
mT	Millitorr
mW	Milliwatt
NiFe	Nickel Iron
ta-C	Tetrahedral amorphous carbon
ta-DLC	Tetrahedral amorphous diamond-like carbon
SEM	Scanning Electron Microscopy
Si	Silicon
Si-Si <sub>3</sub> N <sub>4</sub>	Silicon-Silicon nitride
SiO <sub>2</sub>	Silicon Dioxide
XPS	X-ray Photoelectron Spectroscopy
XRR	X-ray reflectivity
μA	Microampere
μm	Micrometer or micron
μN	Micronewton