

Fig. 1

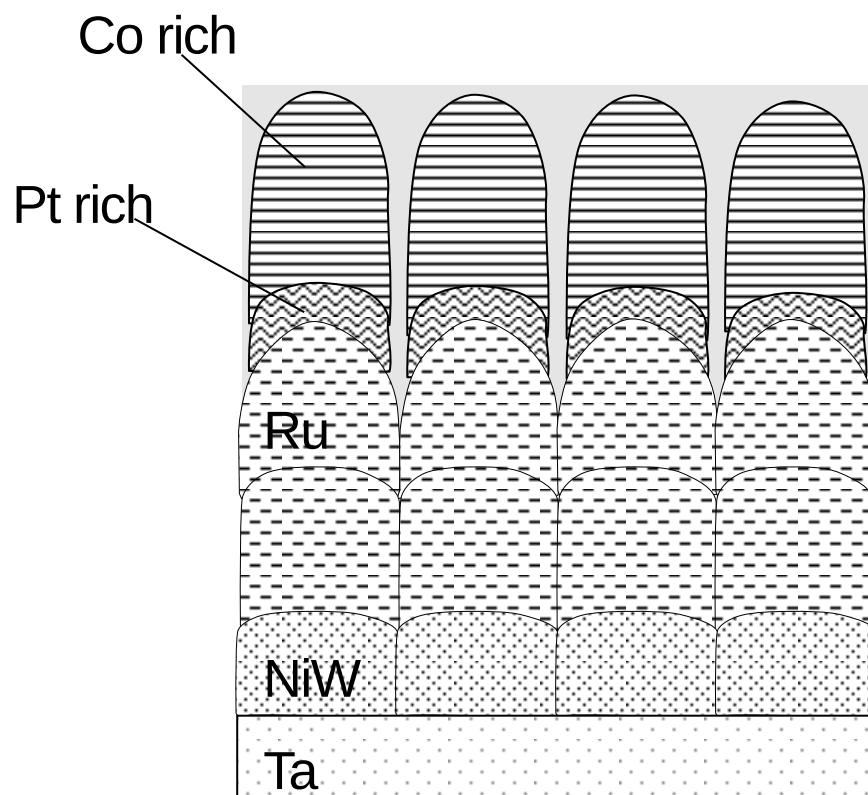


Fig. 2

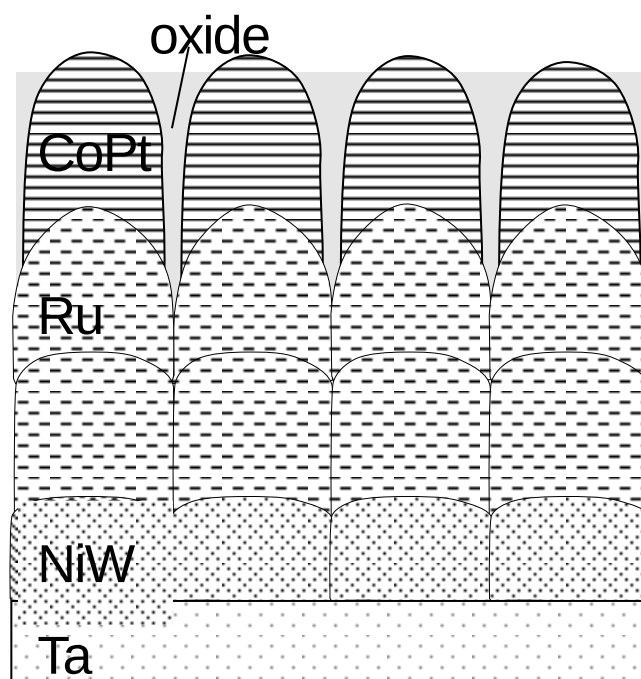


Fig. 3-A

layer structure	thickness
C	7 nm
Co-rich Magnetic layer	0.5 - 16 nm
Pt-rich Buffer layer	0 - 2.5 nm
Ru Under layer 2	10 nm
Ru Under layer 1	10 nm
Ni90W10	6 nm
Ta	5 nm
Glass	

Fig. 3-B

layer structure	thickness
C	7 nm
Pt-rich Buffer layer	0 - 2.6 nm
Co-rich Magnetic layer	0.5 - 16 nm
Ru Under layer 2	10 nm
Ru Under layer 1	10 nm
Ni90W10	6 nm
Ta	5 nm
Glass	

Fig. 3-C

layer structure	thickness
C	7 nm
Pt-rich Buffer layer 4	0 - 0.8 nm
Co-rich Magnetic layer 4	4 nm
Pt-rich Buffer layer 3	0 - 0.8 nm
Co-rich Magnetic layer 3	4 nm
Pt-rich Buffer layer 2	0 - 0.8 nm
Co-rich Magnetic layer 2	4 nm
Pt-rich Buffer layer 1	0 - 0.8 nm
Co-rich Magnetic layer 1	4 nm
Ru Under layer 2	10 nm
Ru Under layer 1	10 nm
Ni90W10	6 nm
Ta	5 nm
Glass	

Fig. 4

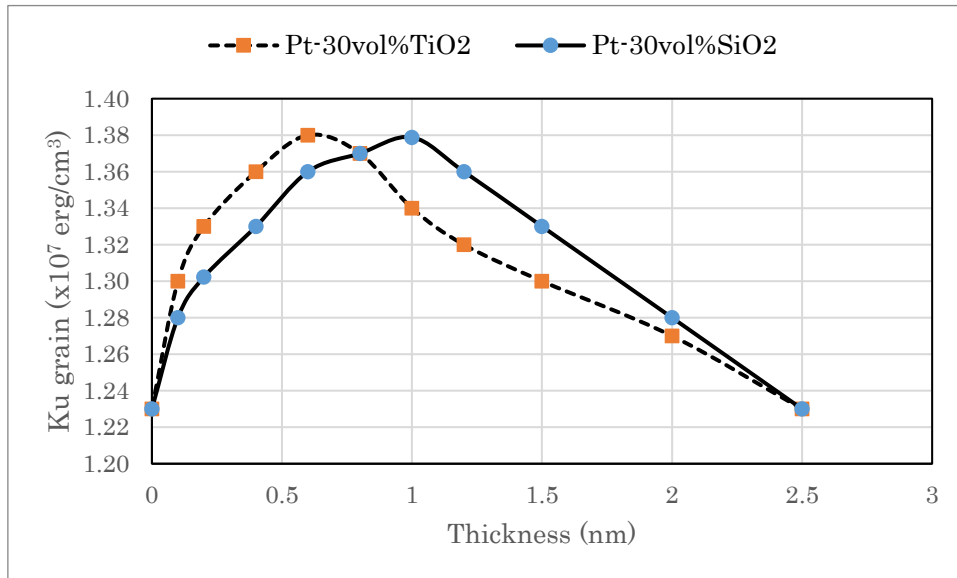


Fig. 5

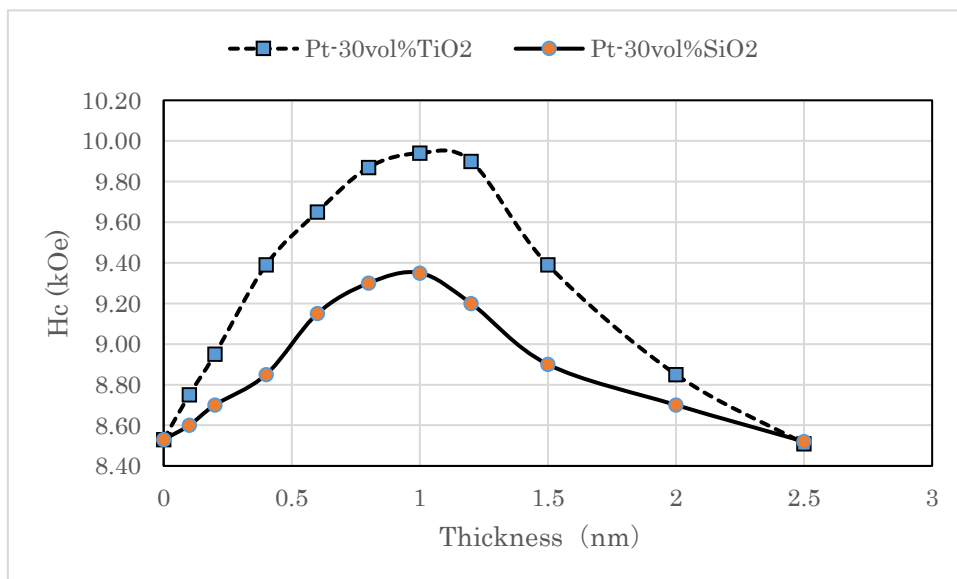


Fig. 6

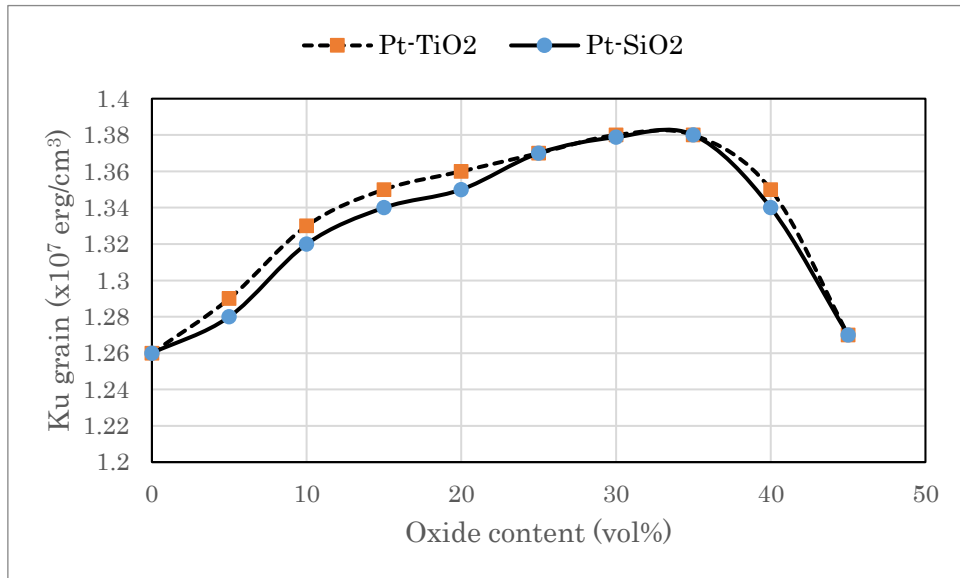


Fig. 7

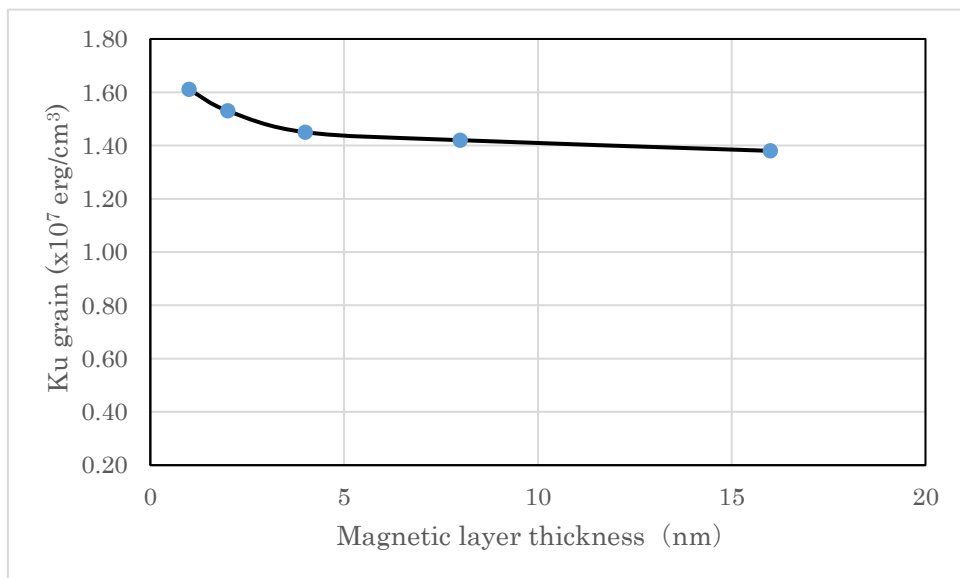


Fig. 8

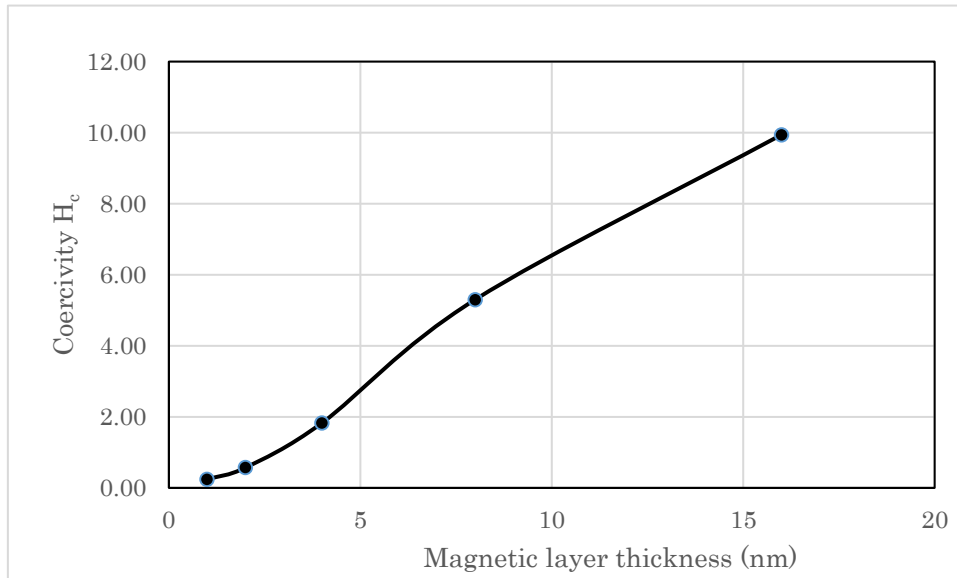


Fig. 9

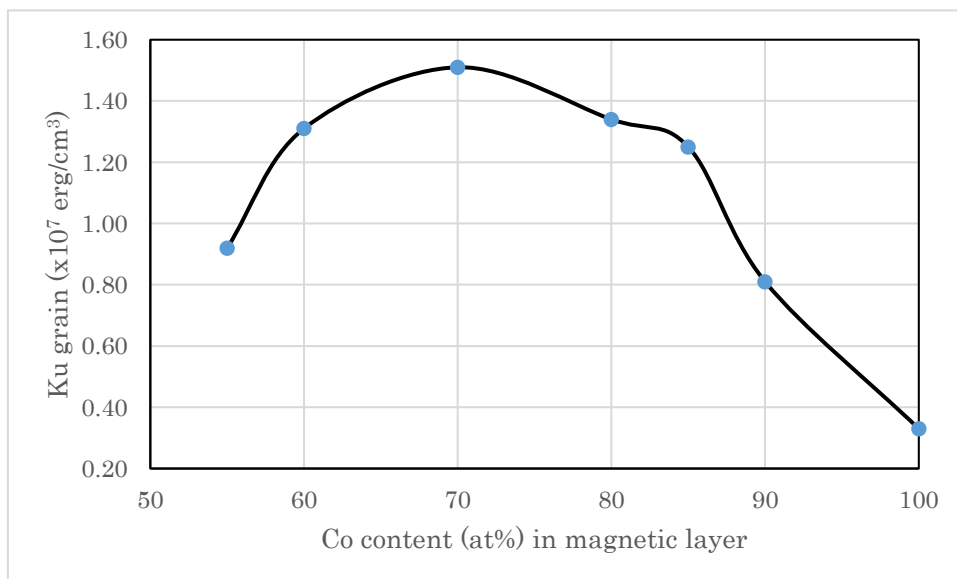


Fig. 10

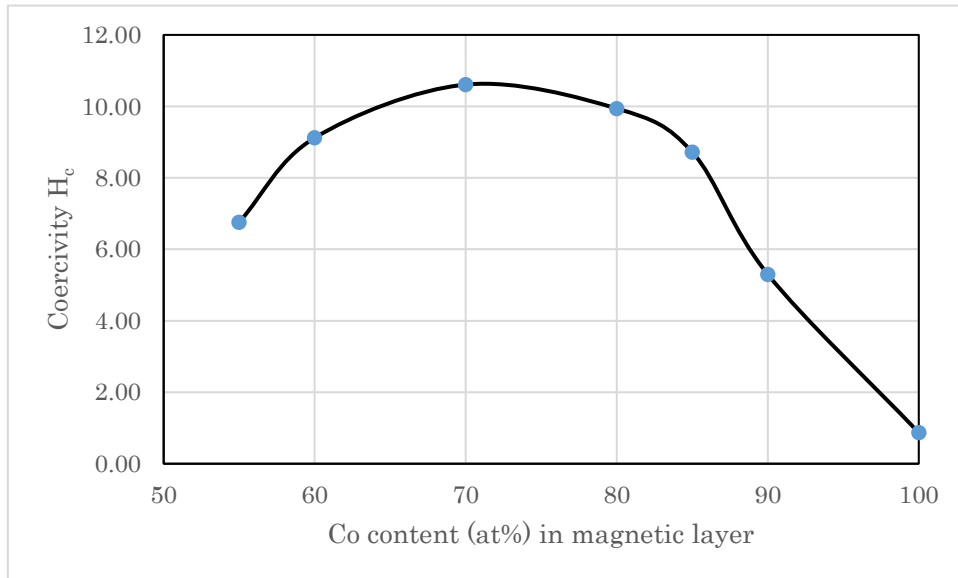


Fig. 11

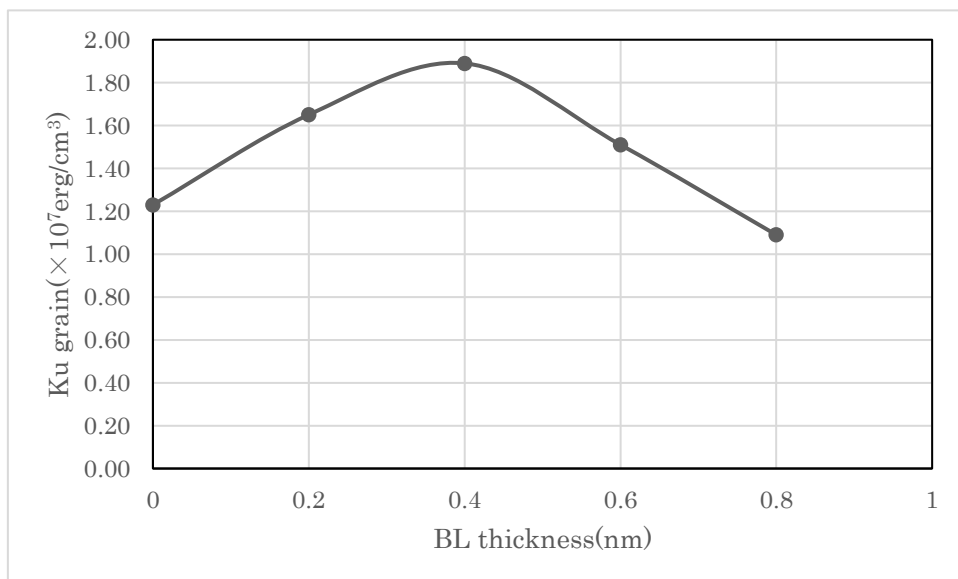


Fig. 12

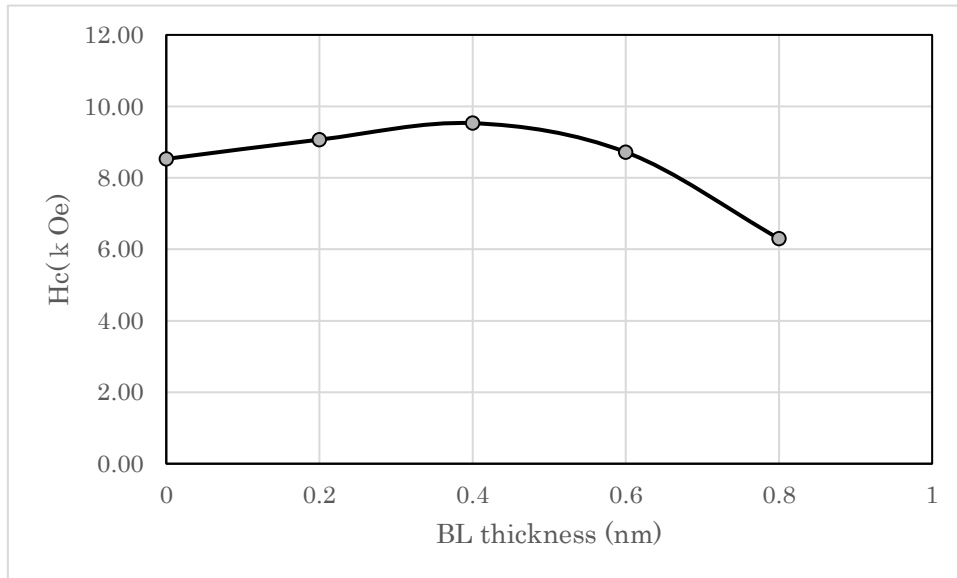


Fig. 13

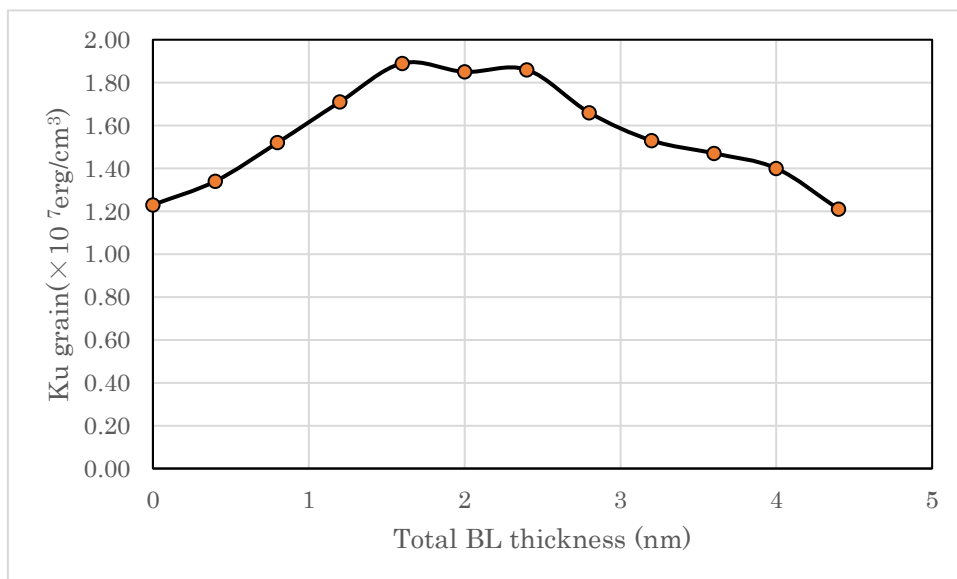


Fig. 14

