

Figure 1. Current-voltage relationship for the process of cathodic plasma discharging.

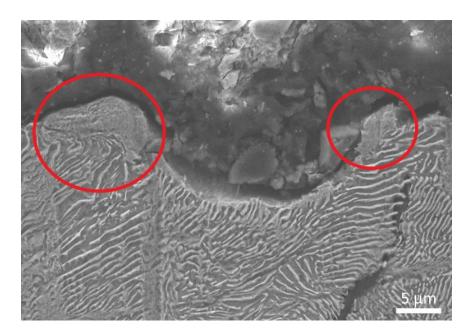


Figure 2. Cross-sectional structure of CPE treated sample showing the crater and re-solidification of iron.

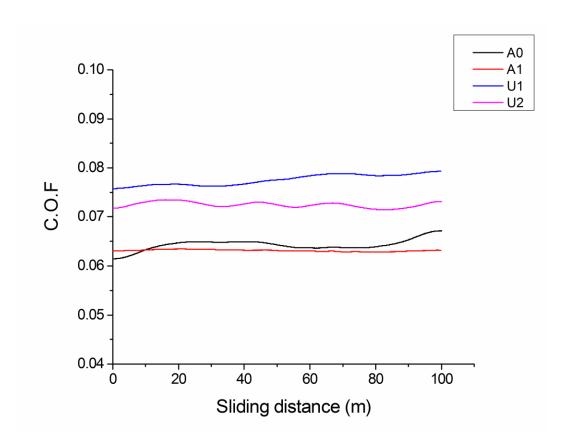


Figure 3. Dynamic COF curves of A0(as-prepared CPE treated sample), A1(CPE treated sample after polishing), U1(blank sample) and U2(sample with crosshatched surface).