

Fig. 1 Surface morphologies of (a) Thin coating; (b) Thick coating and their corresponding high magnification images (c) and (d); cross-sectional SEM images (e) and (f); surface topographies (g) and (h) respectively.



Fig. 2 (a), (b) and (c) shows Nyquist plot, plot of COF versus sliding time curves and specific wear rate of bare titanium substrate, thin and thick graphene-coated samples respectively.