Supplementary Information

Neodymium-decorated graphene oxide as a corrosion barrier layer on Ti6Al4V alloy in acidic medium

N. Palaniappan* [a], I. S. Cole*[b], F. Caballero-Briones[c], S. Manikam[d], C. Lal [e], J. Sathiskumar[f].

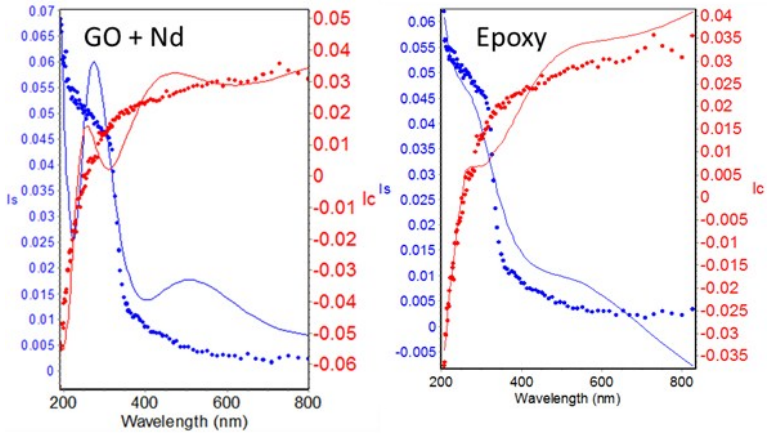

Figure. S1. Ellipsometry spectra of the GO+Nd coating and the reference epoxy coated Ti6Al4V alloys. Dots correspond to experimental data, and solid lines to spectra fitting.

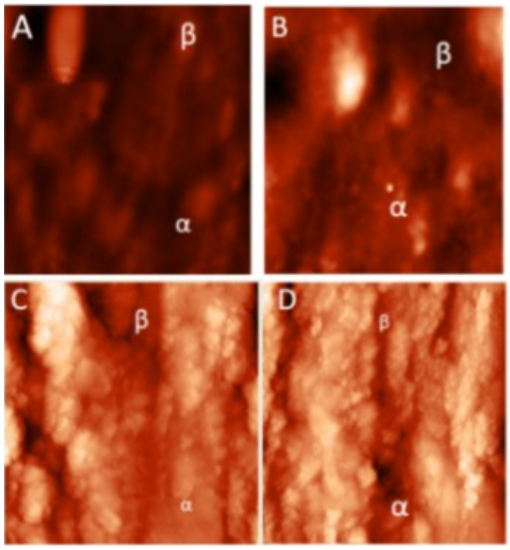

Figure. S2. AFM studies of GO+Nd coated Ti6Al4V alloy (A-B) and Epoxy coated Ti6Al4V alloys (C-D)

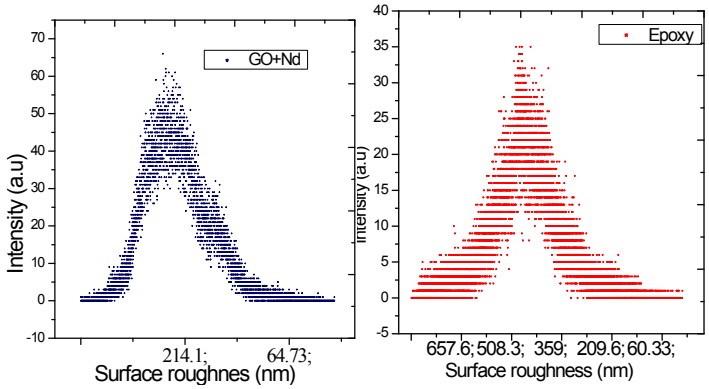

Figure. S3 GO+Nd and epoxy coating titanium alloy surface roughness

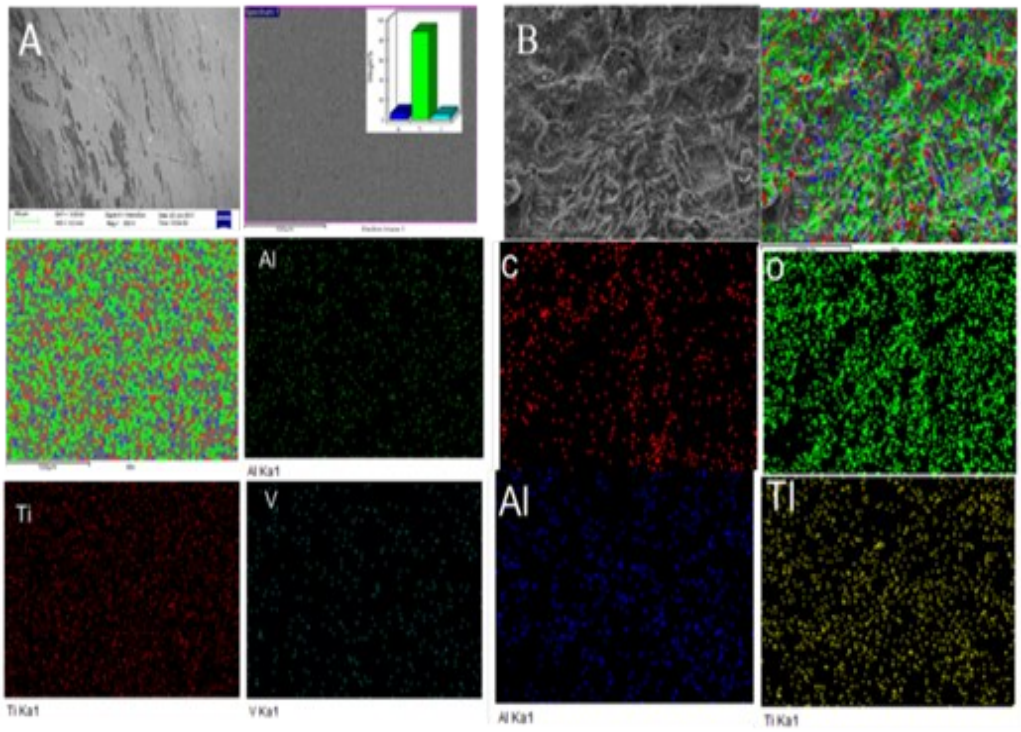

Figure. S. 4. After corrosion treatment surface morphology of GO+Nd coated Ti6Al4V alloy (A) and epoxy coated Ti6Al4V titanium alloy