

Figure S1. Self-made magnetic field generation equipment (a) power (b) exciter.

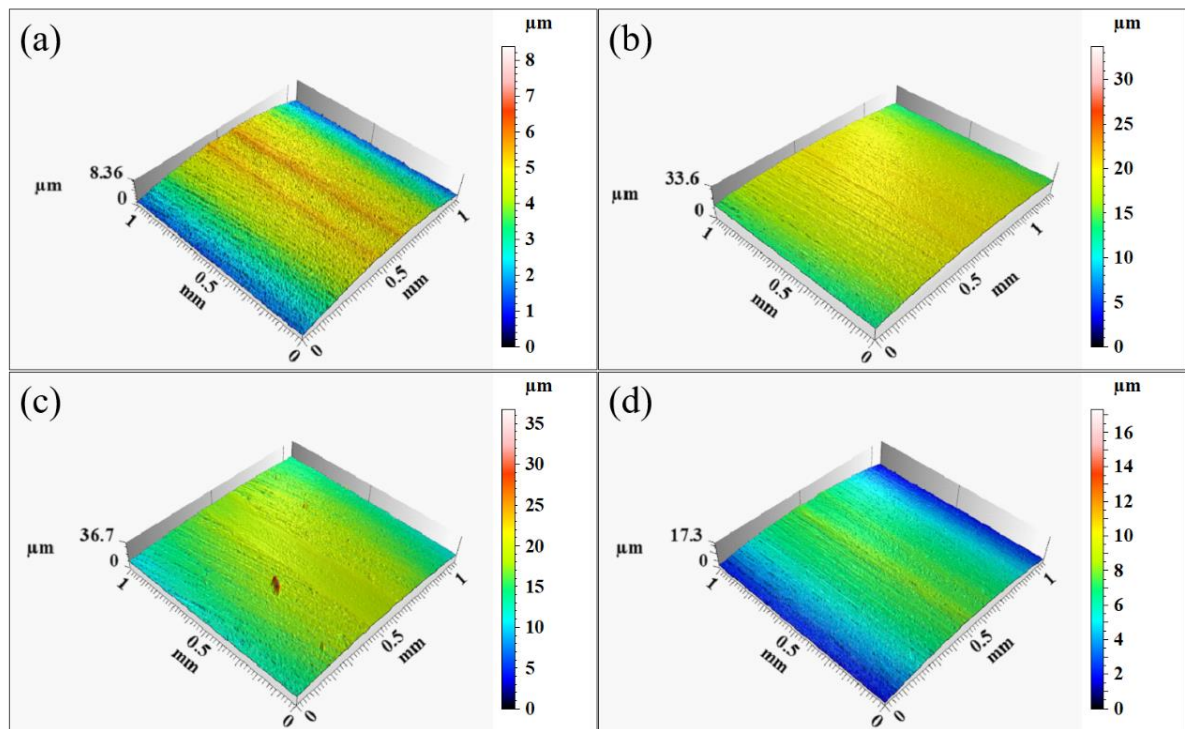


Figure S2. 3D morphology of the friction surface with the coating, (a) 1#, (b) 2#, (c) 3#, (d) 4#.

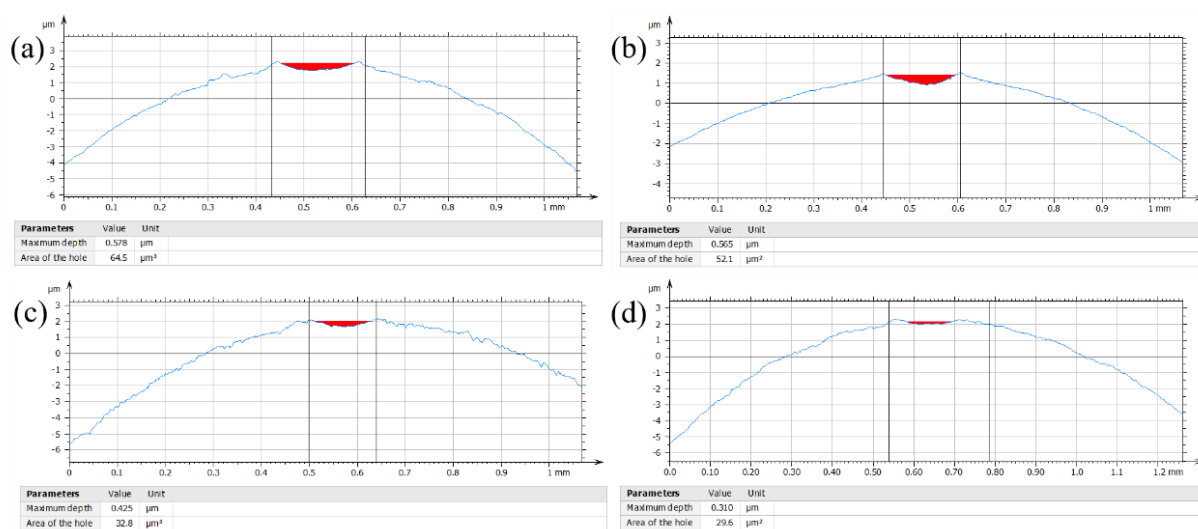


Figure S3. The figure of coating wear section (a) 1#, (b) 2#, (c) 3#, (d) 4#.