

Supplementary information

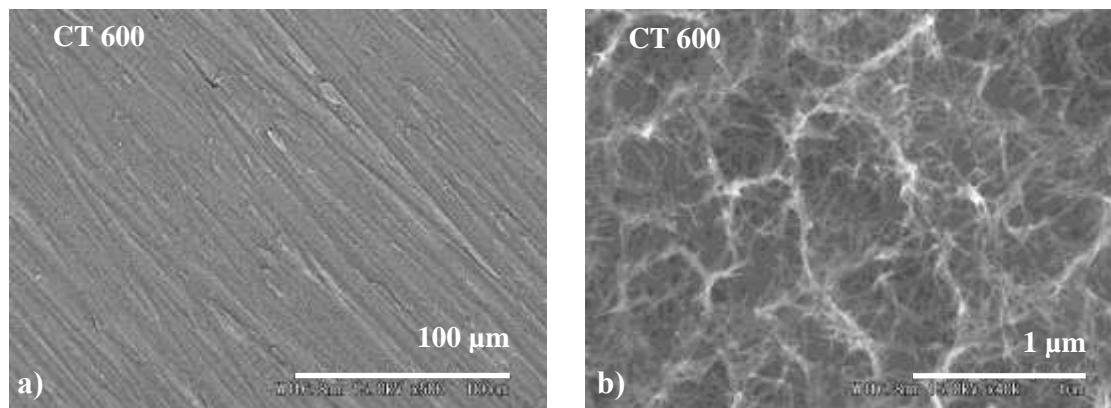


Fig. S1†: FE-SEM images of the top surface of CT600 at low magnification (a) and high magnification (b), respectively.

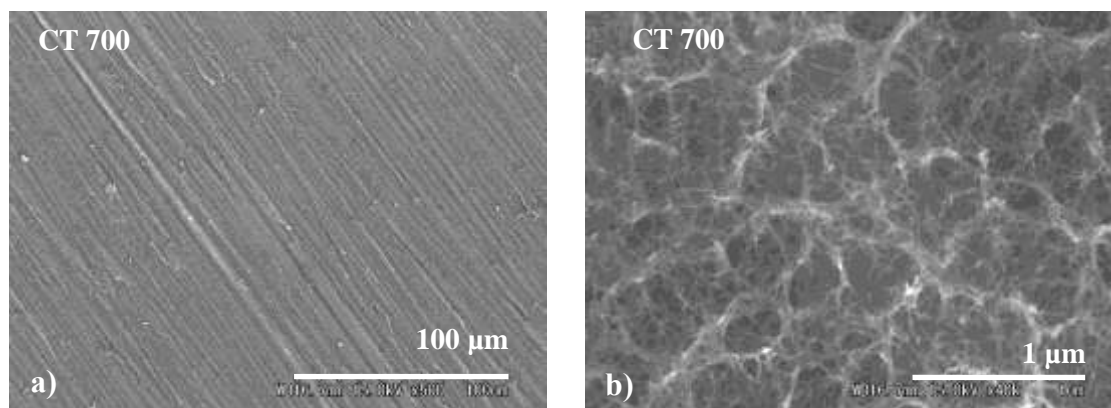


Fig. S2†: FE-SEM images of the top surface of CT700 at low magnification (a) and high magnification (b), respectively.

Table S1†: Summary of phases in chemically treated (C) and chemically and thermally treated (CT) Ti metal.

Phase	Chemical treatment (C) Chemical and thermal treatment (CT)			
	C	CT600	CT700	CT800
H-titanate	○	○	○	×
N-H-titanate	×	○	○	○
Anatase	×	○	×	×
N-doped Anatase	×	×	○	○
TiO	×	×	○	○
Ti- oxynitride	×	×	○	○
Ti ₂ N	×	○	○	○
N-doped Ti	×	×	×	○
Ti	○	○	○	×