

Electronic Supplementary Information

Unraveling the mystery: effect of trapped air on platelet adhesion on hydrophobic nanostructured titanium dioxide

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Supplementary Table

Table S1

Characterization of superhydrophobic samples with different nanostructures.

Nanostructure	sNPA	NPA	NTA	NVS
Anodization potential (V)	3	5	20	30
Diameter (nm)	~20	~30	~100	-
Thickness (nm)	~90	~100	~300	~350
Contact angle (deg)	150.2 ± 0.9	152.2 ± 0.8	153.4 ± 1.0	155.3 ± 1.2
Adhesive force	176.9 ± 2.8	136.8 ± 14.3	49.0 ± 13.0	5.25 ± 1.6
Air Fraction	-	80.0%	81.7%	84.1%

Supplementary Figures

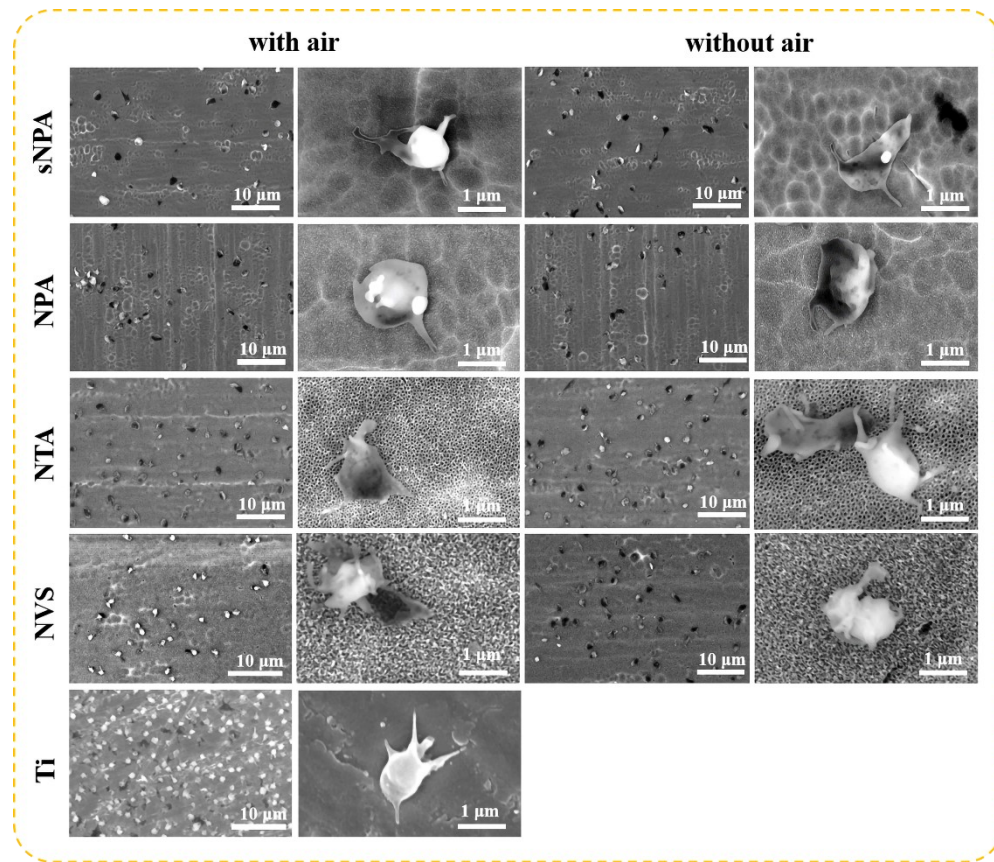


Fig. S1 SEM images of adherent platelets on different samples.

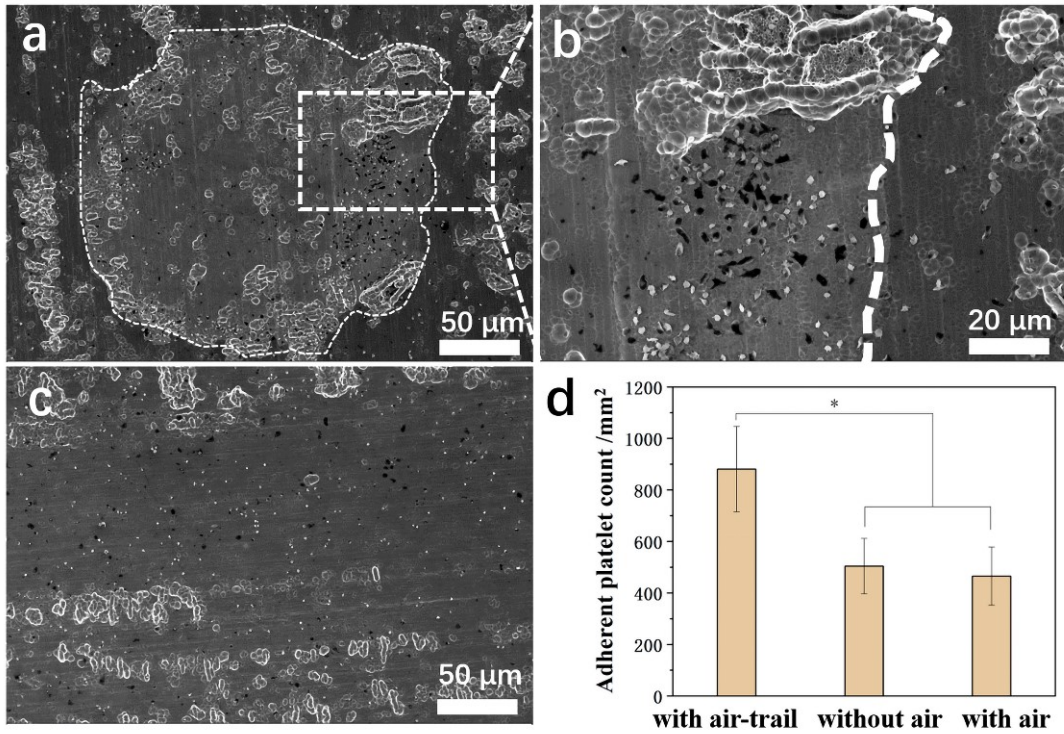


Fig. S2 SEM images of platelet adhesion on superhydrophobic NTA with trapped air. (a, b) Special trace area and (c) normal platelet adhesion area. (d) A comparison of adherent platelet numbers in different areas.