

Table S1 Chemical composition of unmodified NiTi, Pdop and Ag@Pdop

Sample	Atomic percentage (%)					
	C	O	N	Ag	Ti	Ni
NiTi	44.96	39.36	-	-	12.52	3.16
Pdop	74.34	18.11	7.55	-	-	-
Ag@1Pdop	73.53	17.48	8.29	0.34	0.2	0.16
Ag@6Pdop	71.78	17.05	10.07	0.84	0.25	-
Ag@12Pdop	81.39	13.31	4.66	0.64	-	-
Ag@18Pdop	76.13	15.91	7.45	0.51	-	-
Ag@24Pdop	72.56	19.02	8.08	0.35	-	-

Table S2 E_{corr} , I_{corr} , and E_{pit} of the polished NiTi, Pdop, and Ag@Pdop in Hank's solution

sample	E_{corr}/V	$I_{corr}/A \cdot cm^{-2}$	E_{pit}/V
NiTi	-0.36	1.43E-7	0.37
Pdop	-0.09	2.07E-8	-
Ag@1Pdop	-0.09	1.2E-7	-
Ag@6Pdop	-0.07	1.4E-7	-
Ag@12Pdop	-0.06	6.3E-8	-
Ag@18Pdop	-0.07	3.2E-8	-
Ag@24Pdop	-0.07	1.2E-8	-

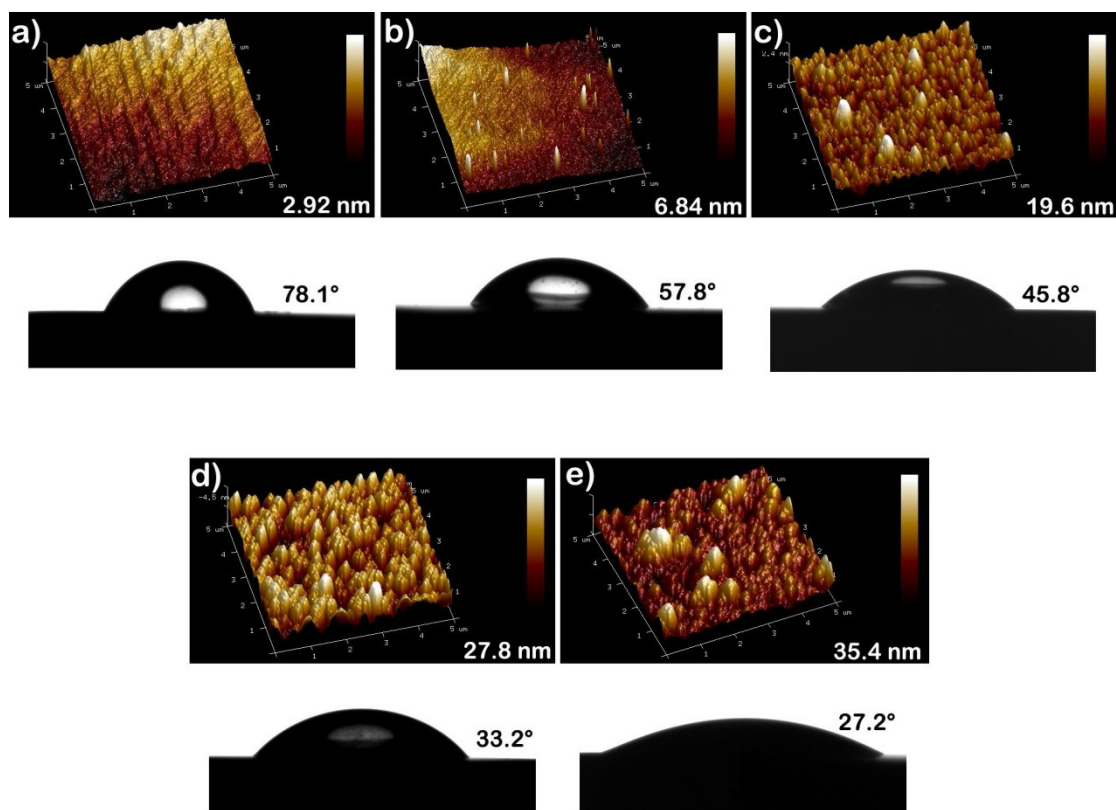


Fig.S1 The surface roughness (upper) and hydrophilicity (lower), a) polished NiTi, b) Pdop, c) Ag@6Pdop, d) Ag@12Pdop, and f) Ag@24Pdop

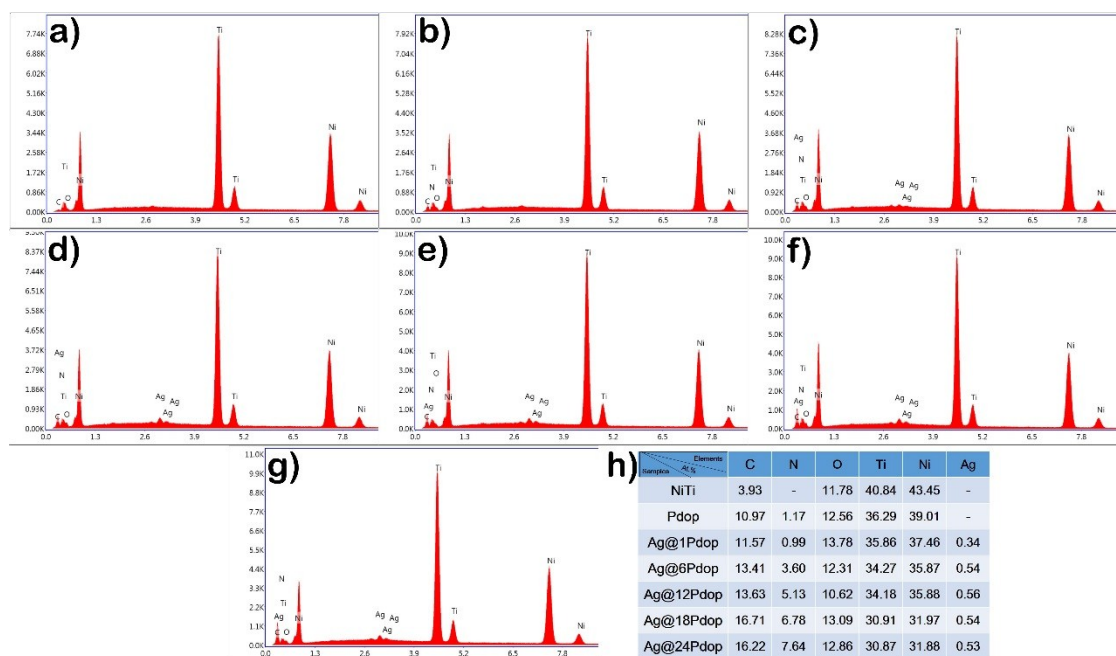


Fig. S2 EDAX spectra of the samples, a) NiTi, b) Pdop, c) Ag@1Pdop, d) Ag@6Pdop, e) Ag@12Pdop, f) Ag@18Pdop, g) Ag@24Pdop, h) Chemical constituents obtained by EDAX

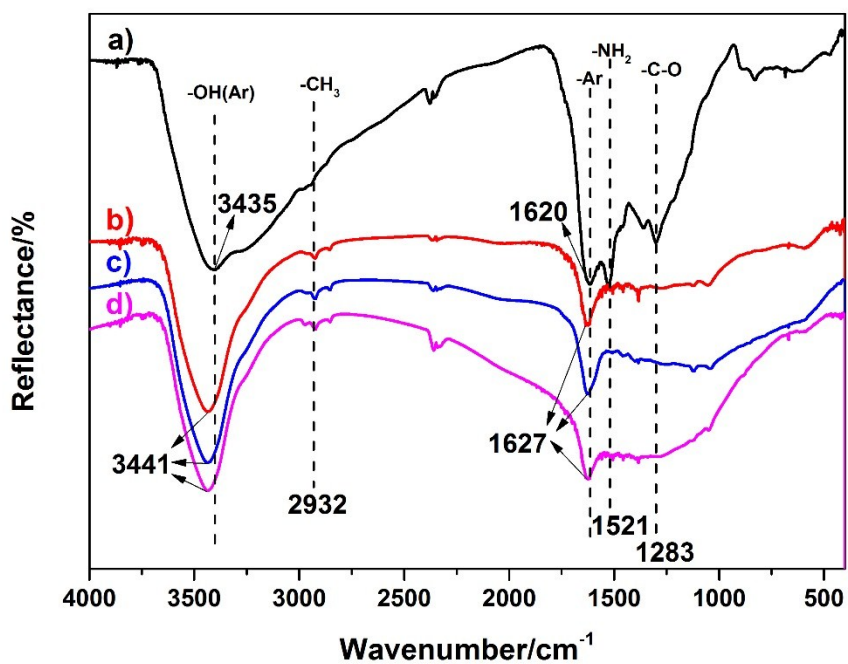


Fig. S3 FT-IR spectra of the films, a) Pdop, b) Ag@6Pdop, c) Ag@12Pdop, d) Ag@24Pdop

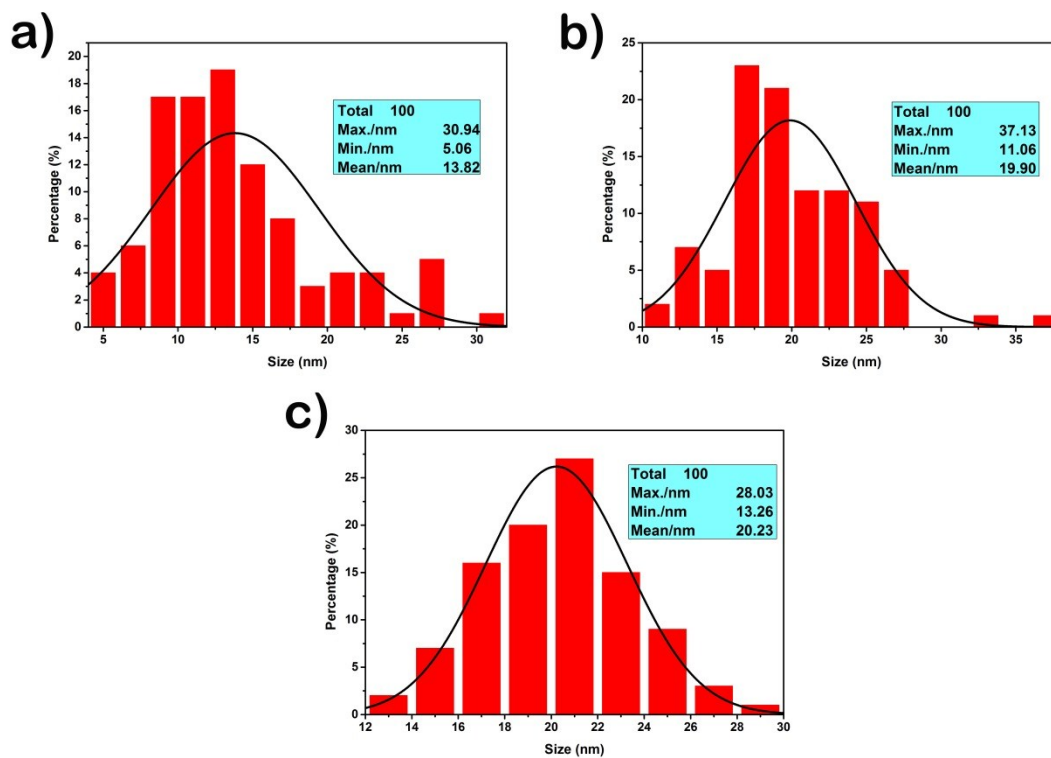


Fig. S4 Size distribution of Ag NPs of Ag@Pdop, a) Ag@6Pdop, b) Ag@12Pdop, and c) Ag@24Pdop