

Supplementary Materials

Functionalization of the NiTi Shape Memory Alloy Surface by Innovative Hydroxyapatite/Ag-TiO₂ Hybrid Coatings

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Table S1. Raman band assignment based on the spectra gathered before and after the sintering procedure.

Initial				After sintering			
ν (cm ⁻¹)	ν (cm ⁻¹)	ν (cm ⁻¹)	Assignment	ν (cm ⁻¹)	ν (cm ⁻¹)	ν (cm ⁻¹)	Assignment
90	110	150	Ag lattice		122	133	Ag lattice/AgO/Ca(PO ₄)
120	146	208			154	243	AgO/Ca(PO ₄)
150	210	269			222		Ag–O–Ti/Ca(PO ₄)
212			Ag–O–Ti				
270	289		multiple-phonon scattering processes	268			defects
344		337	defects	371	322	323	C–Ag
431		430	E _g	428		440	
						446	$\nu_2(\text{PO}_4)^{3-}$
513	520		defects	507			
			defects	560			
606			A _{1g} / $\nu_4(\text{PO}_4)^{3-}$	612		596	$\nu_4(\text{PO}_4)^{3-}$
					697		chemisorbed oxygen species
	760	798	chemisorbed oxygen species		792		
	895						
971	963	969	$\nu_4(\text{CO}_3)^{2-}$ / $\nu_1(\text{PO}_4)^{3-}$ *			958	$\nu_1(\text{PO}_4)^{3-}$
1398		1378	$\nu_1(\text{CO}_3)^{2-}$		1340	1351	D
						1483	
1577			$\nu_3(\text{CO}_3)^{2-}$		1580	1604	G