

Supporting info

Table 2. Zirconia polymorphs crystalline domain sizes obtained by electron diffraction data Rietveld analysis. The estimated standard deviation on the last digit for each refined parameter were reported in parentheses.

Sample	Phase			
	<i>Tetragonal (Isotropic model)</i>	<i>Monoclinic (anisotropic model)</i>		
	<i>d (nm)</i>	<i>l (nm)</i>	<i>w (nm)</i>	<i>h (nm)</i>
0.16 Z2.5	2.4 (0.2)	2.6 (0.2)	2.3 (0.2)	1.6 (0.2)
0.16 Z24	2.3 (0.2)	4.9 (0.4)	3.2 (0.3)	2.1 (0.2)
0.5 Z2.5	2.3 (0.2)	4.8 (0.4)	2.8 (0.3)	2.2 (0.2)
0.5 Z24	2.5 (0.2)	7.5 (0.5)	4.8 (0.4)	3.7 (0.4)

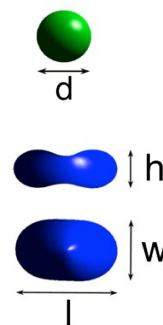


Table 3. Zirconia nanoparticles sizes obtained by bright field TEM image analysis.

Sample	<i>Pseudo-spherical particles (tetragonal)</i>			<i>Elongated particles (monoclinic)</i>					
	Size (nm)	σ (nm)	σ_+ (nm)	<i>Short axis</i>			<i>Long axis</i>		
				Size (nm)	σ (nm)	σ_+ (nm)	Size (nm)	σ (nm)	σ_+ (nm)
0.16 Z2.5	2.1	0.6	0.9	-	-	-	-	-	-
0.16 Z24	2.4	0.5	0.9	2.9	0.8	1.3	4.6	1.3	1.8
0.5 Z2.5	2.3	0.6	0.8	2.4	0.9	1.4	4.3	1.0	1.3
0.5 Z24	2.4	0.7	0.9	3.7	0.7	0.9	7.7	1.4	2.0